

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071919\
 Data File : VD063148.D
 Acq On : 19 Jul 2019 12:32
 Operator : VA/AP
 Sample : VD0719SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 20 04:59:37 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	7.05	168	673837	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.22	114	979336	50.00	ug/l	0.01
63) Chlorobenzene-d5	12.37	117	788610	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	488349	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.45	65	404922	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	
35) Dibromofluoromethane	6.93	113	435664	44.66	ug/l	0.01
Spiked Amount	50.000		Recovery	=	89.32%	
50) Toluene-d8	10.41	98	855665	40.84	ug/l	0.01
Spiked Amount	50.000		Recovery	=	81.68%	
62) 4-Bromofluorobenzene	13.56	95	411233	42.42	ug/l	0.01
Spiked Amount	50.000		Recovery	=	84.84%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.56	85	187653	24.827	ug/l	98
3) Chloromethane	1.74	50	154678	23.565	ug/l	91
4) Vinyl Chloride	1.84	62	154817	21.527	ug/l	97
5) Bromomethane	2.13	94	52416	16.950	ug/l #	90
6) Chloroethane	2.24	64	69613	20.838	ug/l	96
7) Trichlorofluoromethane	2.52	101	284067	19.512	ug/l	99
8) Diethyl Ether	2.86	74	43125	21.058	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	3.13	101	171604	20.442	ug/l	91
10) Methyl Iodide	3.29	142	208425	20.224	ug/l	98
11) Tert butyl alcohol	4.07	59	62258	128.520	ug/l	96
12) 1,1-Dichloroethene	3.11	96	128922	21.627	ug/l	89
13) Acrolein	3.02	56	18493	126.485	ug/l	87
14) Allyl chloride	3.60	41	214776	22.924	ug/l	99
15) Acrylonitrile	4.18	53	133079	124.277	ug/l	90
16) Acetone	3.22	43	233835	115.339	ug/l	100
17) Carbon Disulfide	3.36	76	376001	22.036	ug/l	99
18) Methyl Acetate	3.63	43	109936	39.728	ug/l #	91
19) Methyl tert-butyl Ether	4.23	73	350843	23.315	ug/l #	92
20) Methylene Chloride	3.80	84	155271	20.272	ug/l	94
21) trans-1,2-Dichloroethene	4.20	96	152723	23.078	ug/l	91
22) Diisopropyl ether	5.12	45	472267	23.185	ug/l	98
23) Vinyl Acetate	5.05	43	1331030	112.002	ug/l	98
24) 1,1-Dichloroethane	4.97	63	277008	22.077	ug/l	99
25) 2-Butanone	6.07	43	223215	115.298	ug/l #	91
26) 2,2-Dichloropropane	6.01	77	289609	20.855	ug/l	97
27) cis-1,2-Dichloroethene	6.03	96	170340	22.628	ug/l	97
28) Bromochloromethane	6.43	49	105137	23.096	ug/l	93
29) Tetrahydrofuran	6.46	42	104831	119.453	ug/l	97
30) Chloroform	6.66	83	341024	22.068	ug/l	97
31) Cyclohexane	6.95	56	165036	20.653	ug/l #	85
32) 1,1,1-Trichloroethane	6.87	97	335330	22.006	ug/l	96
36) 1,1-Dichloropropene	7.15	75	212779	19.318	ug/l	96
37) Ethyl Acetate	6.18	43	106743	22.644	ug/l	99
38) Carbon Tetrachloride	7.11	117	309792	18.510	ug/l	96

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	172426	18.107	ug/l	97
40) Benzene	7.45	78	473888	20.542	ug/l	93
41) Methacrylonitrile	6.45	41	141331	22.114	ug/l #	88
42) 1,2-Dichloroethane	7.58	62	244723	19.912	ug/l	98
43) Isopropyl Acetate	9.24	43	154144	22.814	ug/l #	95
44) Trichloroethene	8.54	130	189561	21.263	ug/l	91
45) 1,2-Dichloropropane	8.95	63	115094	20.011	ug/l	95
46) Dibromomethane	9.06	93	99524	20.137	ug/l	93
47) Bromodichloromethane	9.38	83	259970	20.157	ug/l #	86
48) Methyl methacrylate	9.12	41	98262	22.146	ug/l	95
49) 1,4-Dioxane	9.09	88	18229	476.373	ug/l #	82
51) 4-Methyl-2-Pentanone	10.31	43	506813	113.093	ug/l	94
52) Toluene	10.51	92	302537	19.639	ug/l	96
53) t-1,3-Dichloropropene	10.92	75	227896	20.624	ug/l	96
54) cis-1,3-Dichloropropene	10.04	75	221285	19.368	ug/l	100
55) 1,1,2-Trichloroethane	11.19	97	113693	21.357	ug/l	89
56) Ethyl methacrylate	11.04	69	132150	22.217	ug/l	96
57) 1,3-Dichloropropane	11.42	76	165384	20.416	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.86	63	346498	104.622	ug/l	99
59) 2-Hexanone	11.54	43	395230	114.358	ug/l	100
60) Dibromochloromethane	11.69	129	204415	20.032	ug/l	94
61) 1,2-Dibromoethane	11.81	107	140319	22.020	ug/l	99
64) Tetrachloroethene	11.26	164	157089	20.529	ug/l	95
65) Chlorobenzene	12.40	112	382812	20.650	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.52	131	180281	20.976	ug/l	98
67) Ethyl Benzene	12.53	91	670920	20.829	ug/l	98
68) m/p-Xylenes	12.68	106	469749	40.718	ug/l	97
69) o-Xylene	13.05	106	221483	20.247	ug/l	96
70) Styrene	13.08	104	400703	20.926	ug/l	96
71) Bromoform	13.24	173	136892	22.750	ug/l #	97
73) Isopropylbenzene	13.41	105	723139	19.174	ug/l	97
74) N-amyl acetate	13.27	43	203424	19.341	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.70	83	133435	19.446	ug/l	95
76) 1,2,3-Trichloropropane	13.74	75	154372	20.549	ug/l	99
77) Bromobenzene	13.67	156	193140	18.059	ug/l	77
78) n-propylbenzene	13.78	91	813374	18.741	ug/l	99
79) 2-Chlorotoluene	13.85	91	475180	18.108	ug/l	97
80) 1,3,5-Trimethylbenzene	13.94	105	583400	17.749	ug/l	99
81) trans-1,4-Dichloro-2-buten	13.48	75	37106	18.757	ug/l #	93
82) 4-Chlorotoluene	13.95	91	558117	18.214	ug/l	92
83) tert-Butylbenzene	14.19	119	687200	18.490	ug/l	92
84) 1,2,4-Trimethylbenzene	14.24	105	607924	18.552	ug/l	97
85) sec-Butylbenzene	14.37	105	693935	17.573	ug/l	95
86) p-Isopropyltoluene	14.50	119	688777	18.698	ug/l	98
87) 1,3-Dichlorobenzene	14.46	146	358653	18.778	ug/l	99
88) 1,4-Dichlorobenzene	14.54	146	371094	20.267	ug/l	96
89) n-Butylbenzene	14.80	91	593325	17.475	ug/l	99
90) Hexachloroethane	15.01	117	165383	16.794	ug/l	84
91) 1,2-Dichlorobenzene	14.81	146	317751	18.683	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	25553	19.428	ug/l	79

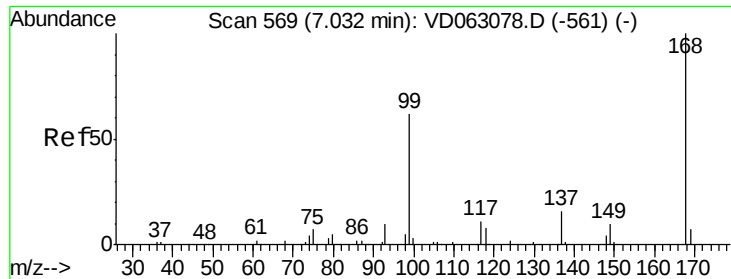
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	247584	19.376	ug/l	98
94) Hexachlorobutadiene	16.04	225	169315	17.978	ug/l	97
95) Naphthalene	16.13	128	364620	19.508	ug/l	96
96) 1,2,3-Trichlorobenzene	16.27	180	196275	19.095	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 571

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

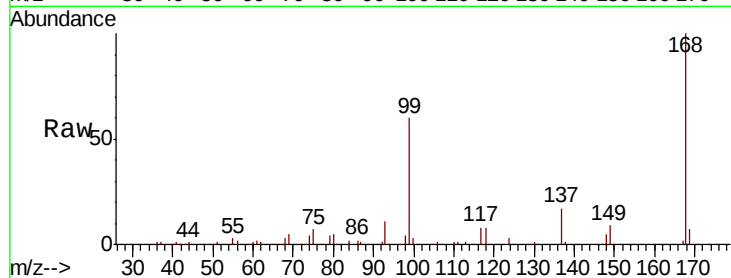
ClientSampleId :

Tot Ion:168 Resp: 673837

Ion Ratio Lower Upper

168 100

99 59.7 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.05

250000

200000

150000

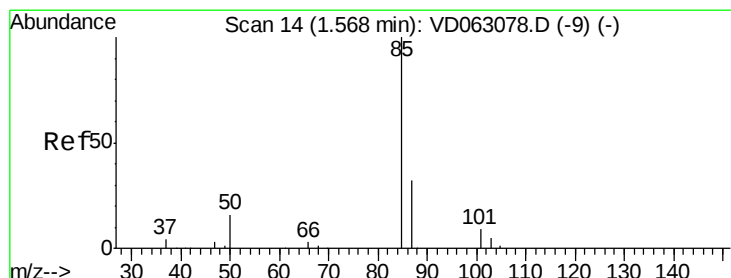
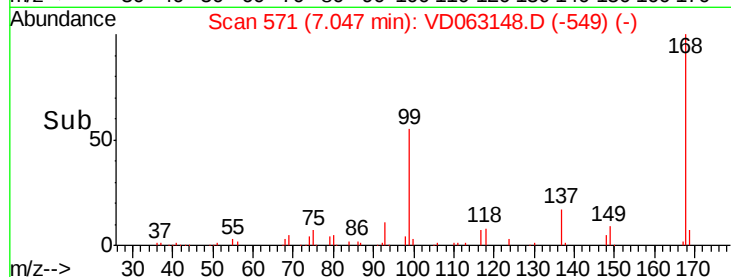
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 24.827 ug/l

RT: 1.56 min Scan# 14

Delta R.T. -0.00 min

Lab File: VD063148.D

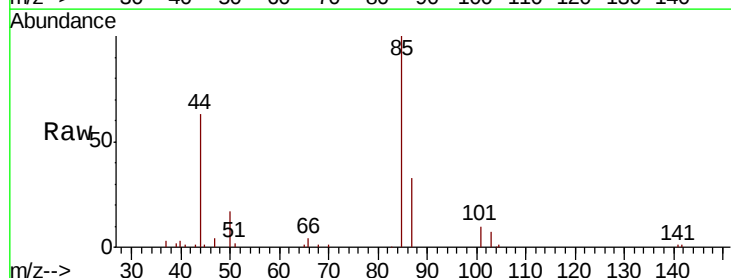
Acq: 19 Jul 2019 12:32

Tgt Ion: 85 Resp: 187653

Ion Ratio Lower Upper

85 100

87 33.0 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

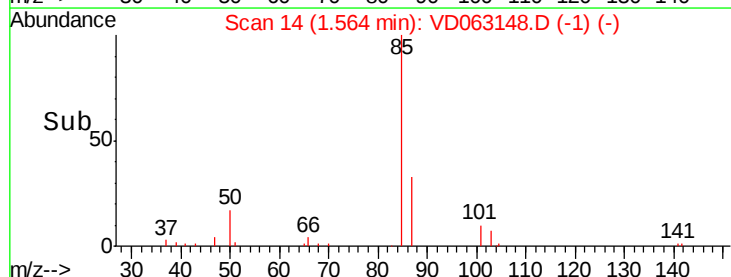
40000

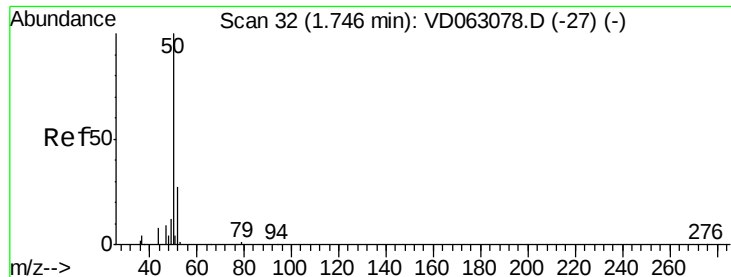
20000

0

1.50 1.60 1.70

Time-->





#3

Chloromethane

Concen: 23.565 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

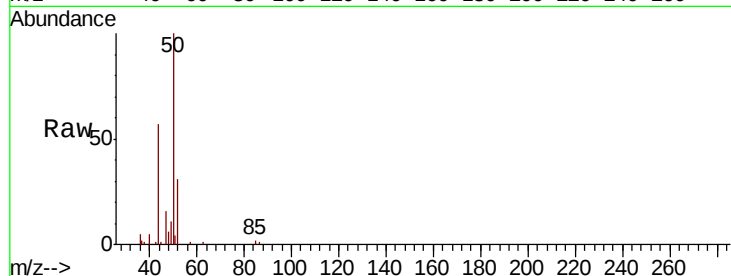
ClientSampleId :

Tot Ion: 50 Resp: 154678

Ion Ratio Lower Upper

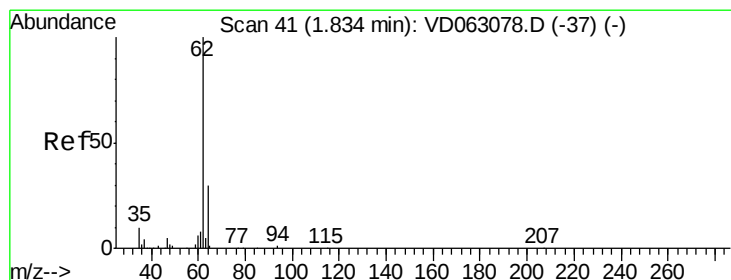
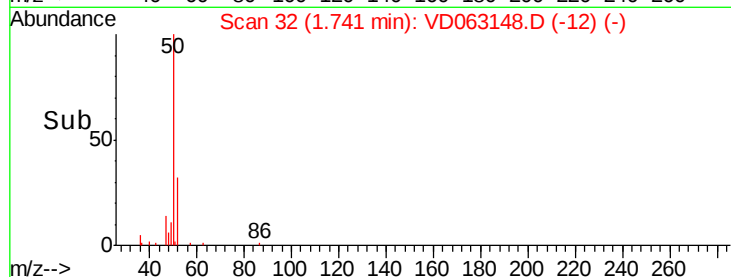
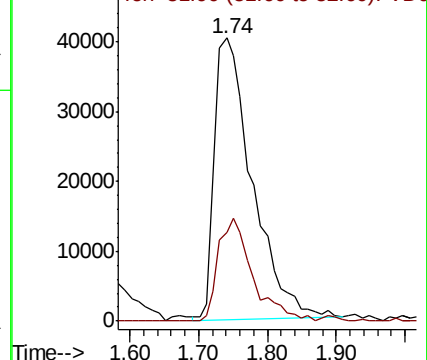
50 100

52 31.4 21.4 32.2



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.527 ug/l

RT: 1.84 min Scan# 42

Delta R.T. 0.00 min

Lab File: VD063148.D

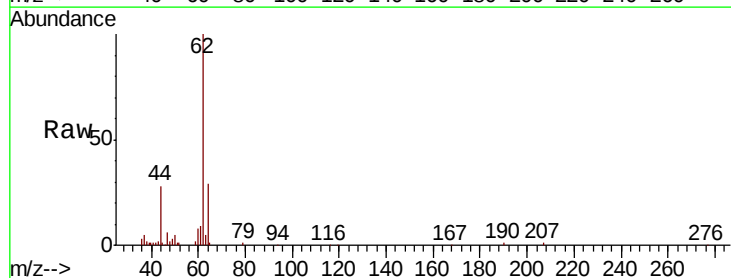
Acq: 19 Jul 2019 12:32

Tgt Ion: 62 Resp: 154817

Ion Ratio Lower Upper

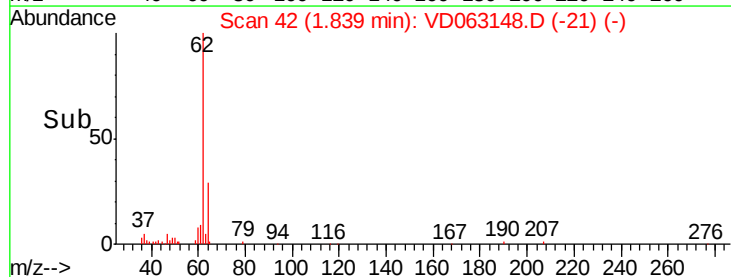
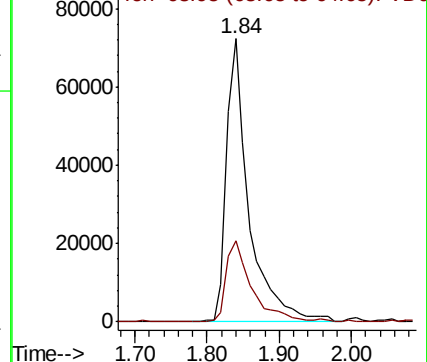
62 100

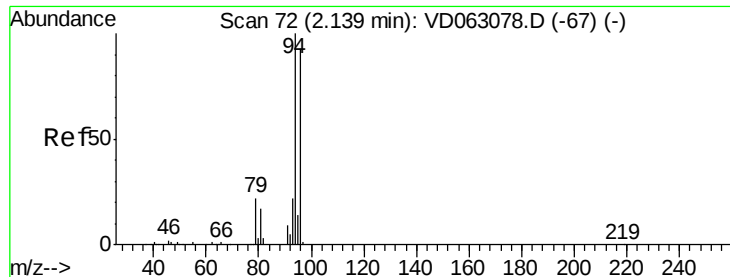
64 28.7 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.950 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :

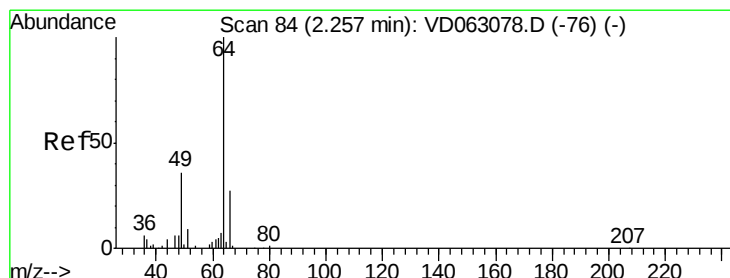
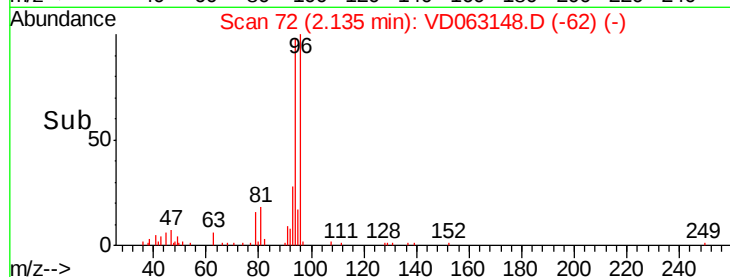
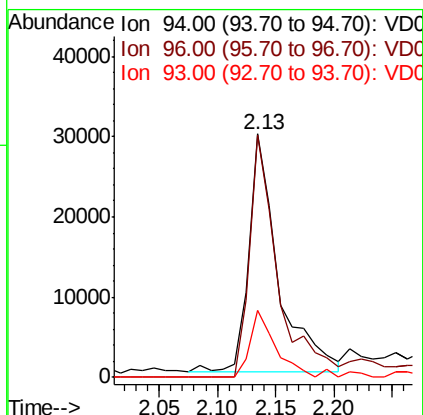
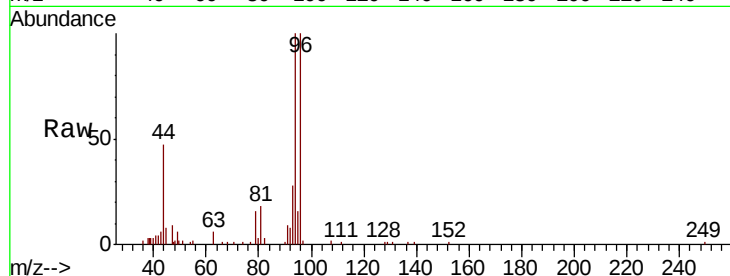
Tot Ion: 94 Resp: 52416

Ion Ratio Lower Upper

94 100

96 102.0 74.2 111.2

93 27.7 17.8 26.6#



#6

Chloroethane

Concen: 20.838 ug/l

RT: 2.24 min Scan# 83

Delta R.T. -0.01 min

Lab File: VD063148.D

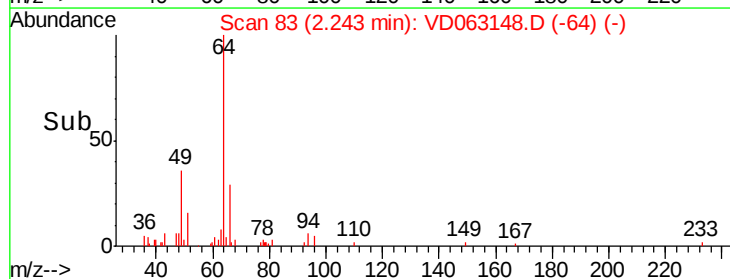
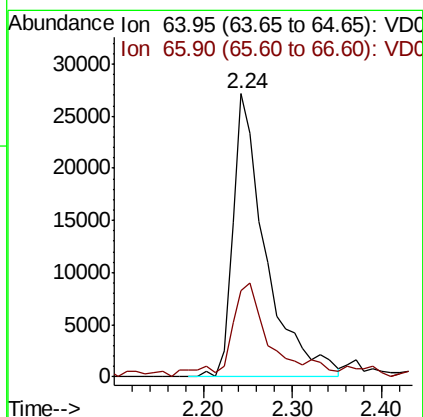
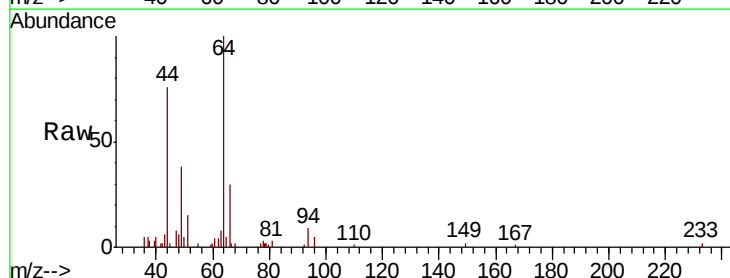
Acq: 19 Jul 2019 12:32

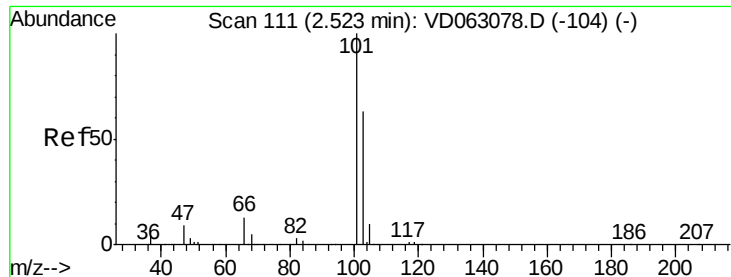
Tgt Ion: 64 Resp: 69613

Ion Ratio Lower Upper

64 100

66 30.3 22.5 33.7



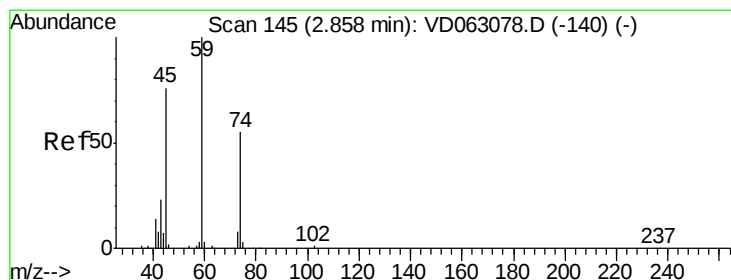
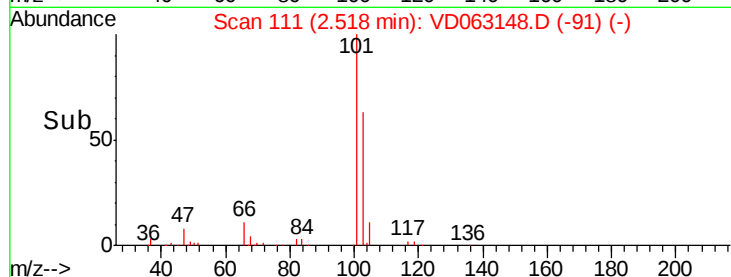
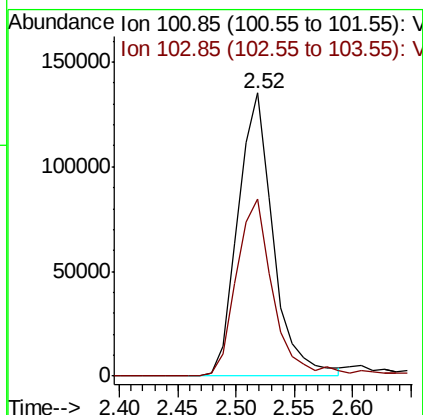
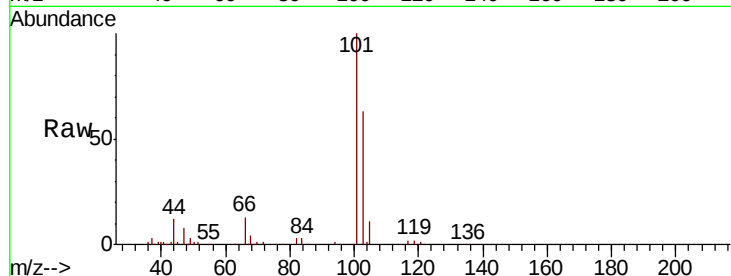


#7

Trichlorofluoromethane
 Concen: 19.512 ug/l
 RT: 2.52 min Scan# 111
 Delta R.T. -0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleId :

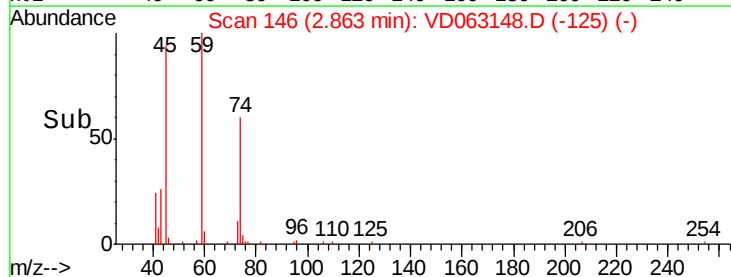
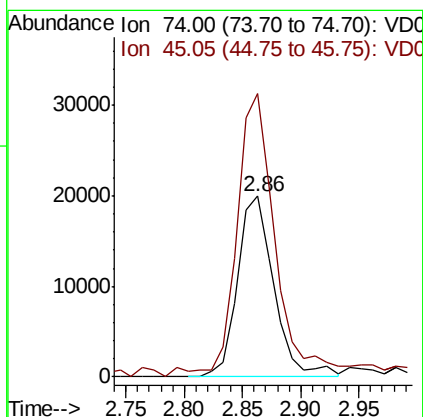
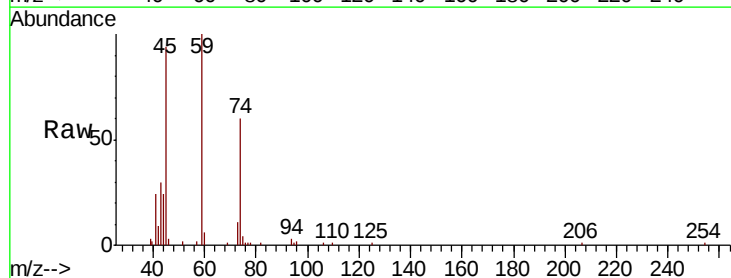
Tot Ion:101 Resp: 284067
 Ion Ratio Lower Upper
 101 100
 103 62.5 50.6 76.0

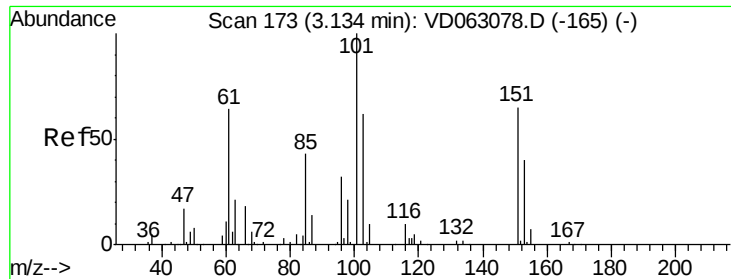


#8

Diethyl Ether
 Concen: 21.058 ug/l
 RT: 2.86 min Scan# 146
 Delta R.T. 0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 74 Resp: 43125
 Ion Ratio Lower Upper
 74 100
 45 156.6 69.5 208.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.442 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

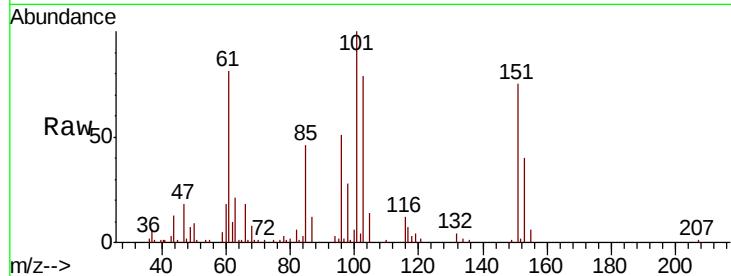
Tot Ion:101 Resp: 171604

Ion Ratio Lower Upper

101 100

85 46.1 34.6 51.8

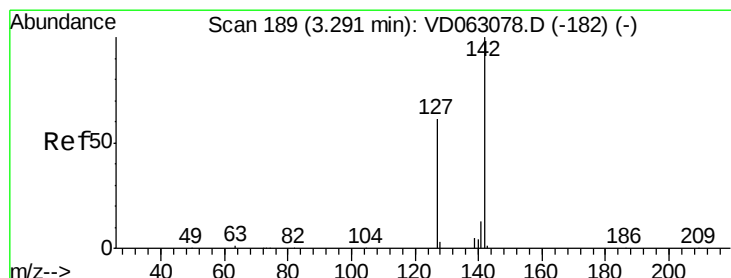
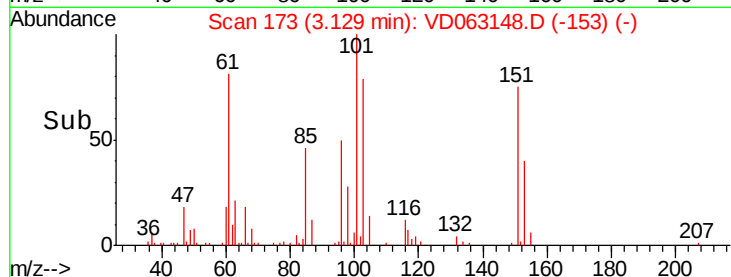
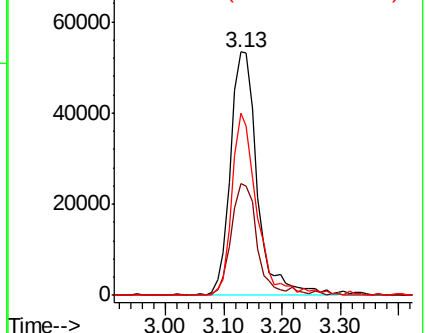
151 74.6 52.4 78.6



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: 20.224 ug/l

RT: 3.29 min Scan# 189

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

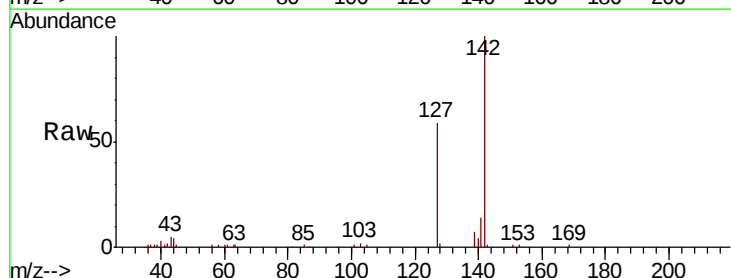
Tgt Ion:142 Resp: 208425

Ion Ratio Lower Upper

142 100

127 58.9 48.6 73.0

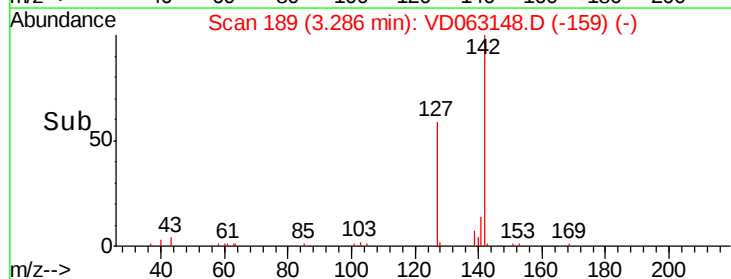
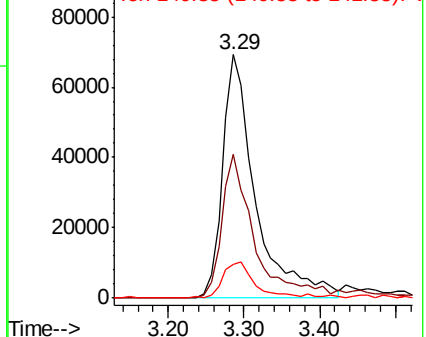
141 13.6 10.6 16.0

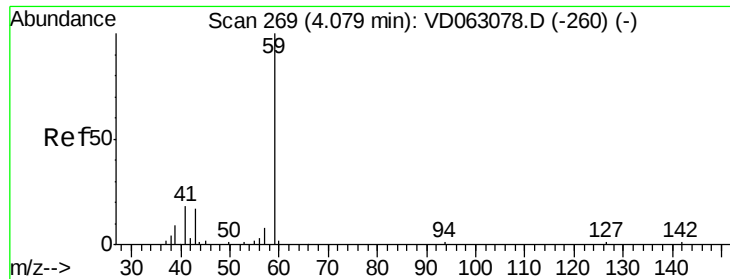


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

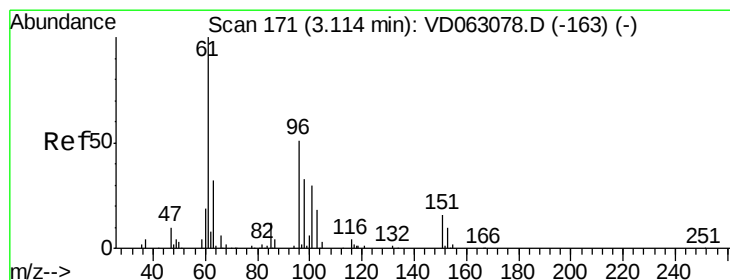
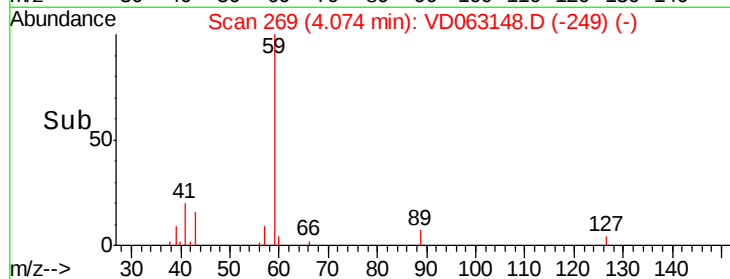
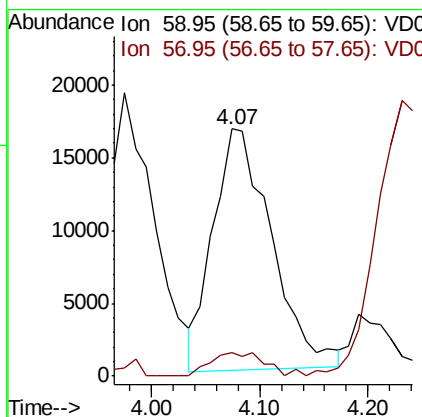
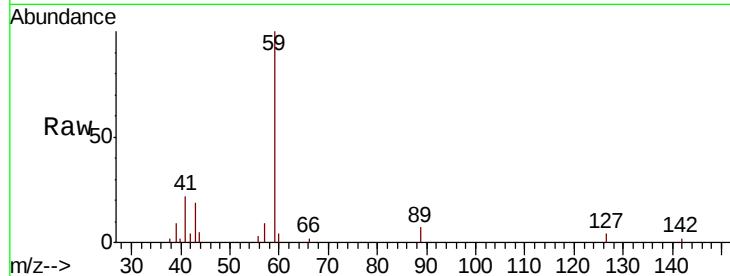




#11
Tert butyl alcohol
Concen: 128.520 ug/l
RT: 4.07 min Scan# 269
Delta R.T. -0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

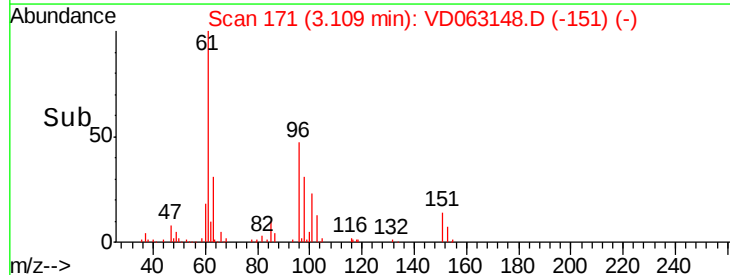
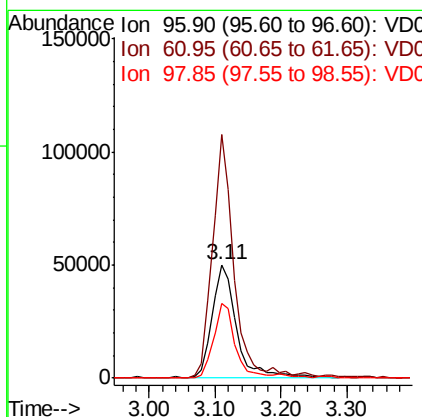
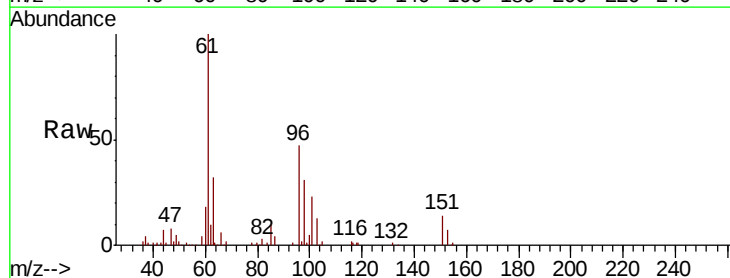
Instrument :
MSVOA_D
ClientSampleId :

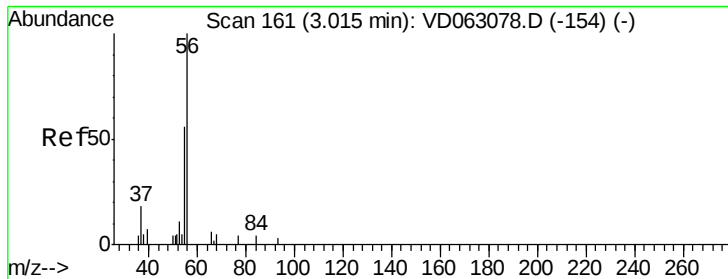
Tot Ion: 59 Resp: 62258
Ion Ratio Lower Upper
59 100
57 9.5 6.4 9.6



#12
1,1-Dichloroethene
Concen: 21.627 ug/l
RT: 3.11 min Scan# 171
Delta R.T. -0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 96 Resp: 128922
Ion Ratio Lower Upper
96 100
61 214.4 155.5 233.3
98 66.1 51.5 77.3





#13

Acrolein

Concen: 126.485 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

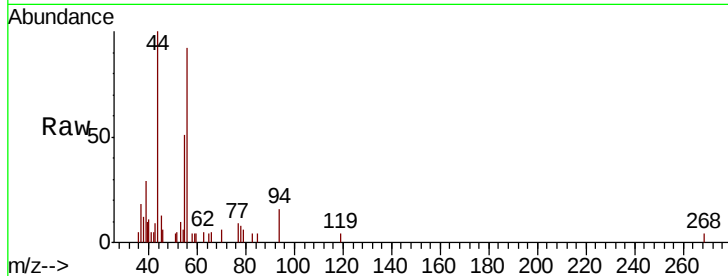
ClientSampleId :

Tot Ion: 56 Resp: 18493

Ion Ratio Lower Upper

56 100

55 55.9 53.0 79.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.02

8000

6000

4000

2000

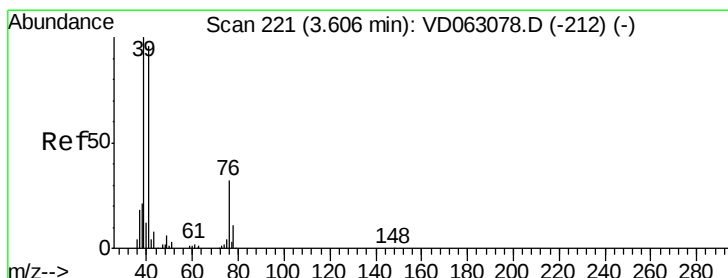
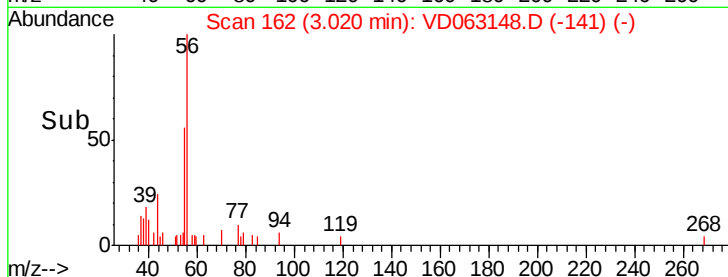
0

Time-->

2.90

3.00

3.10



#14

Allyl chloride

Concen: 22.924 ug/l

RT: 3.60 min Scan# 221

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

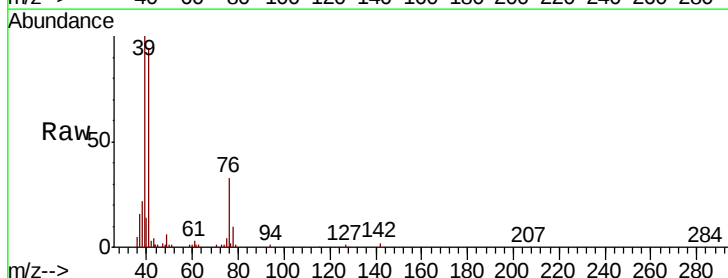
Tgt Ion: 41 Resp: 214776

Ion Ratio Lower Upper

41 100

39 105.9 83.5 125.3

76 34.6 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

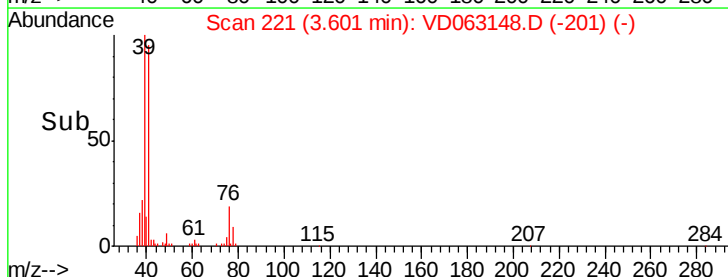
Time-->

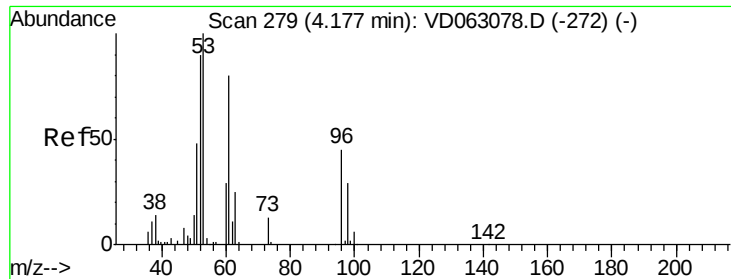
3.50

3.60

3.70

3.80





#15

Acrylonitrile

Concen: 124.277 ug/l

RT: 4.18 min Scan# 280

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampled :

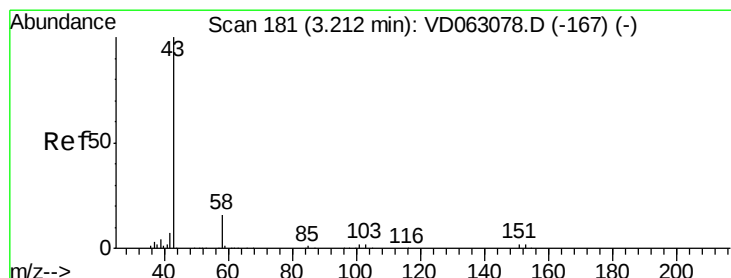
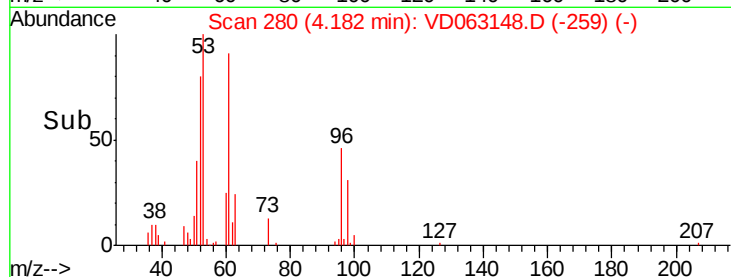
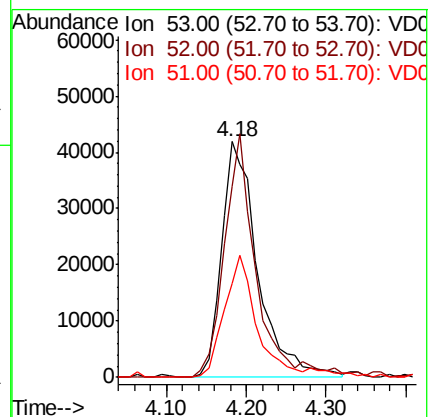
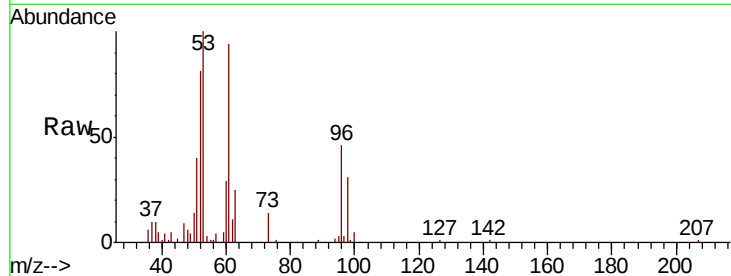
Tot Ion: 53 Resp: 133079

Ion Ratio Lower Upper

53 100

52 80.9 72.3 108.5

51 40.0 38.0 57.0



#16

Acetone

Concen: 115.339 ug/l

RT: 3.22 min Scan# 182

Delta R.T. 0.00 min

Lab File: VD063148.D

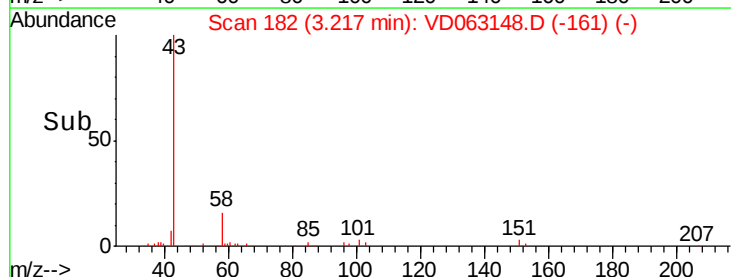
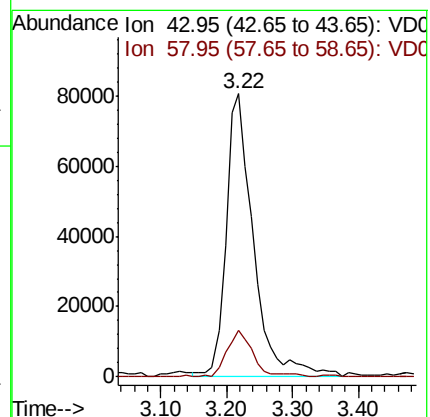
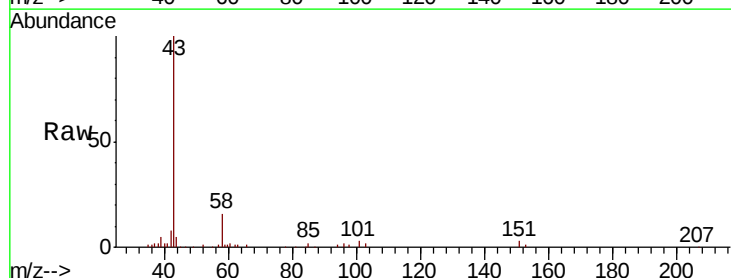
Acq: 19 Jul 2019 12:32

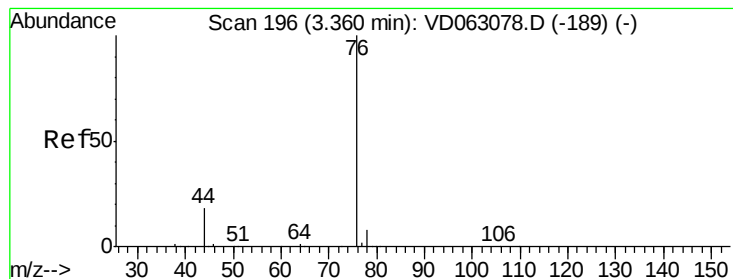
Tgt Ion: 43 Resp: 233835

Ion Ratio Lower Upper

43 100

58 16.2 13.0 19.4





#17

Carbon Disulfide

Concen: 22.036 ug/l

RT: 3.36 min Scan# 196

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

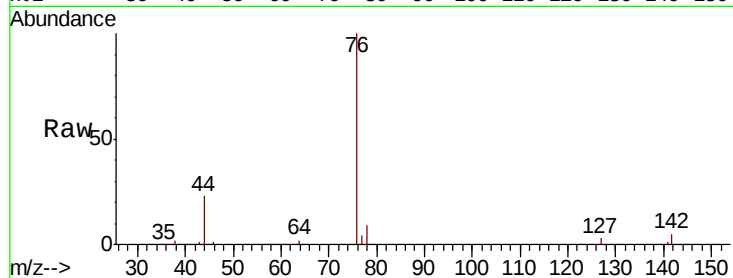
ClientSampleId :

Tot Ion: 76 Resp: 376001

Ion Ratio Lower Upper

76 100

78 8.7 6.7 10.1



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.36

150000

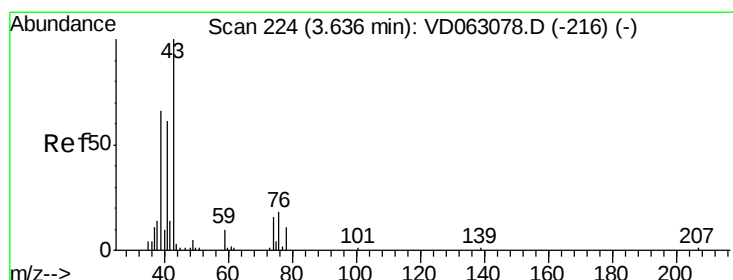
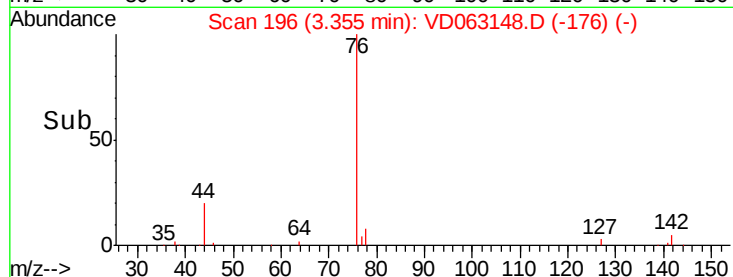
100000

50000

0

Time-->

3.20 3.30 3.40 3.50 3.60



#18

Methyl Acetate

Concen: 39.728 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.00 min

Lab File: VD063148.D

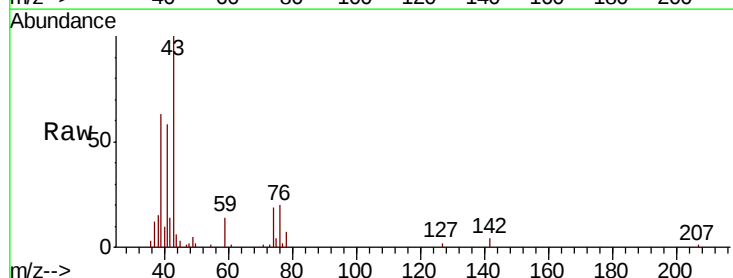
Acq: 19 Jul 2019 12:32

Tgt Ion: 43 Resp: 109936

Ion Ratio Lower Upper

43 100

74 19.3 12.5 18.7#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.63

40000

30000

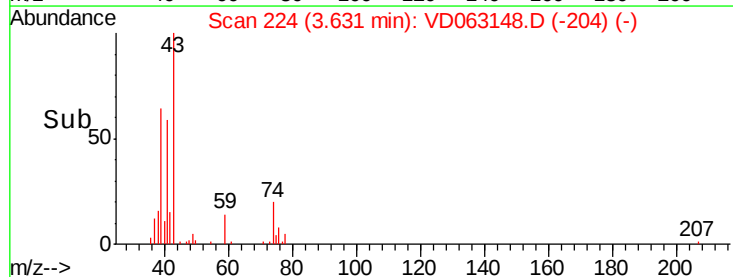
20000

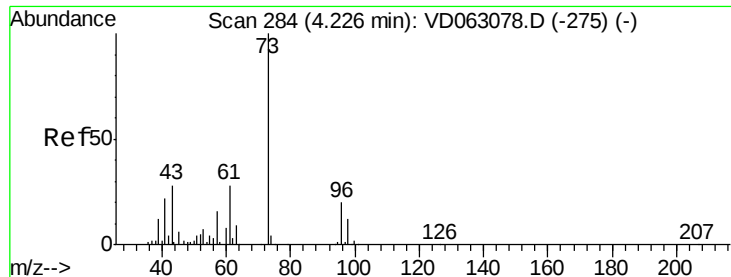
10000

0

Time-->

3.50 3.60 3.70

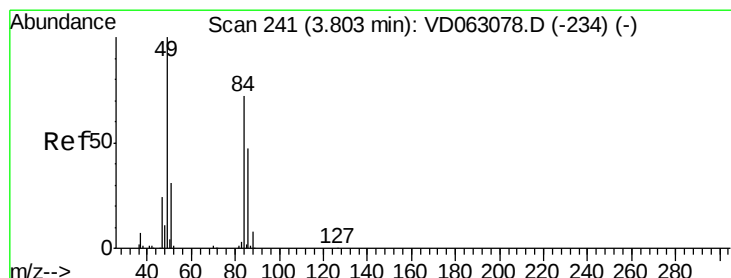
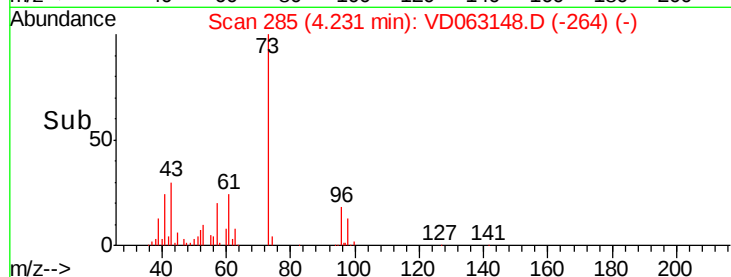
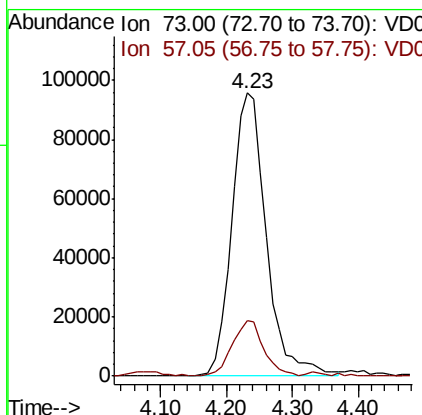
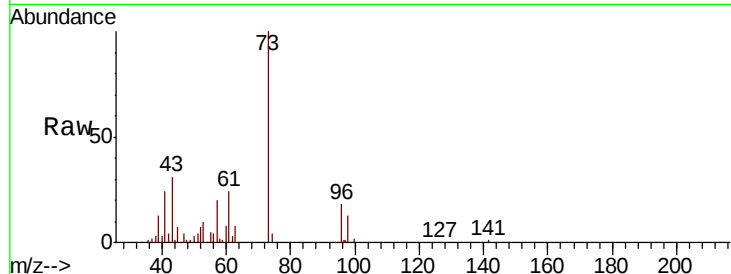




#19
Methyl tert-butyl Ether
Concen: 23.315 ug/l
RT: 4.23 min Scan# 285
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

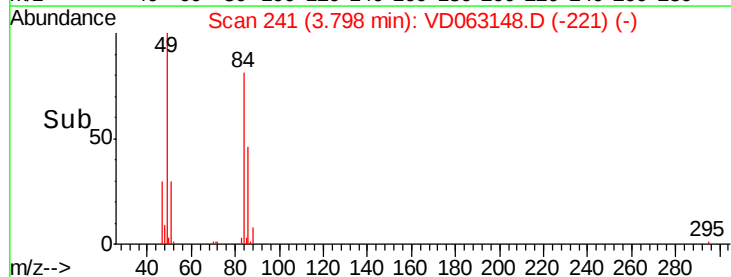
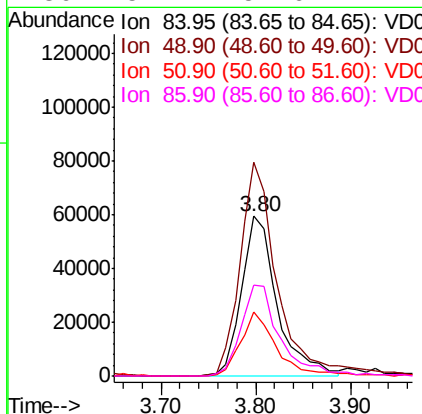
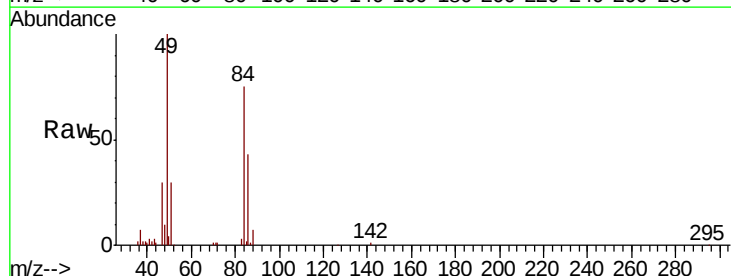
Instrument :
MSVOA_D
ClientSampled :

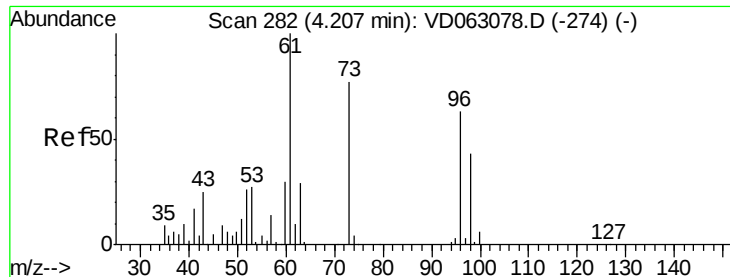
Tot Ion: 73 Resp: 350843
Ion Ratio Lower Upper
73 100
57 19.8 13.1 19.7#



#20
Methylene Chloride
Concen: 20.272 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 84 Resp: 155271
Ion Ratio Lower Upper
84 100
49 133.6 110.5 165.7
51 39.7 34.6 51.8
86 57.1 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 23.078 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :

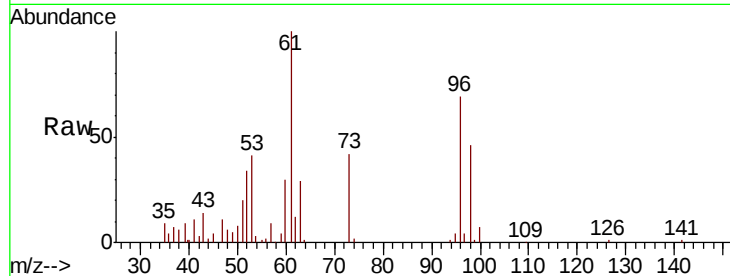
Tot Ion: 96 Resp: 152723

Ion Ratio Lower Upper

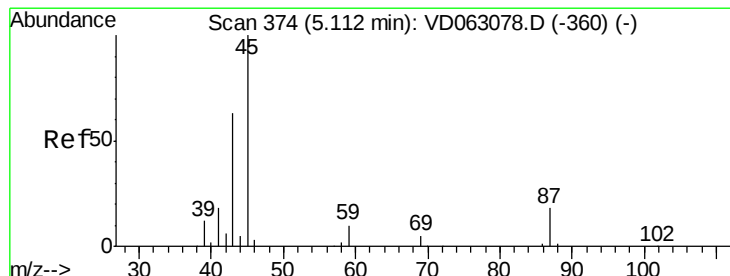
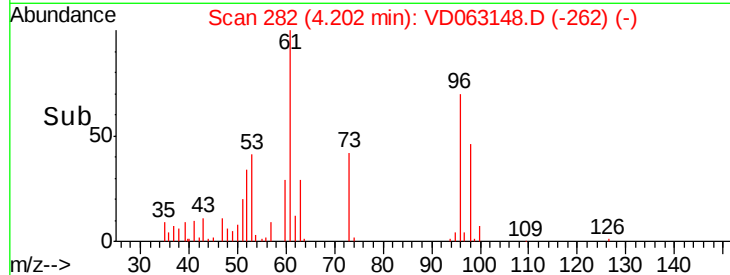
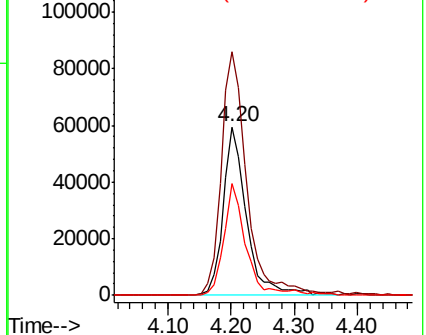
96 100

61 144.3 128.0 192.0

98 66.5 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: 23.185 ug/l

RT: 5.12 min Scan# 375

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Tgt Ion: 45 Resp: 472267

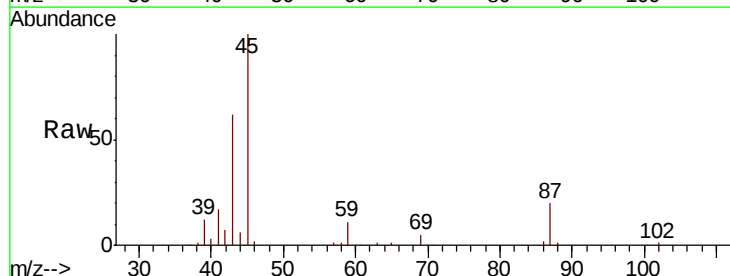
Ion Ratio Lower Upper

45 100

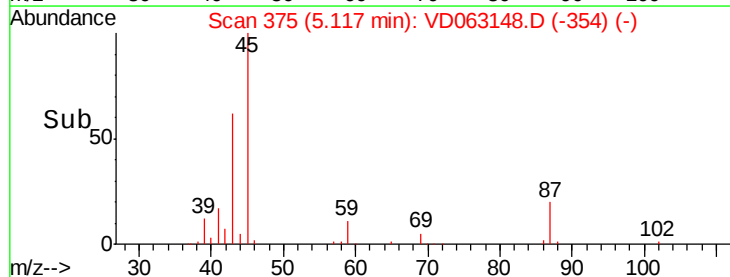
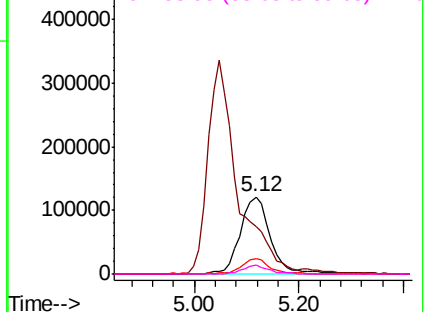
43 61.6 50.5 75.7

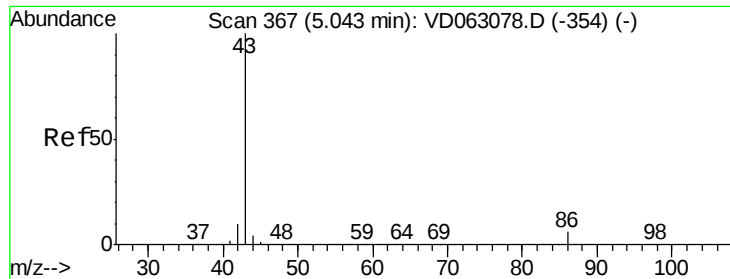
87 20.3 15.1 22.7

59 10.9 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: 112.002 ug/l

RT: 5.05 min Scan# 368

Delta R.T. 0.00 min

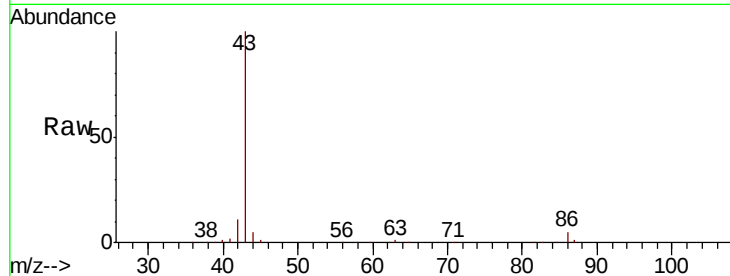
Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 1331030

Ion	Ratio	Lower	Upper
43	100		
86	5.5	5.0	7.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.05

300000

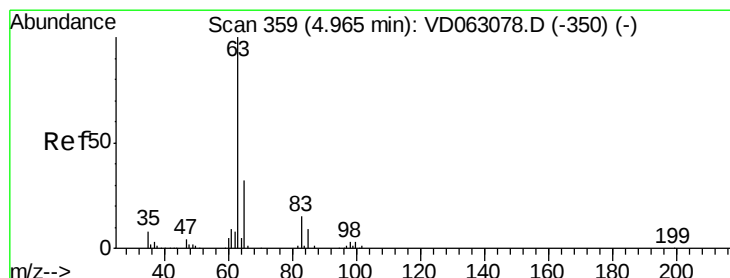
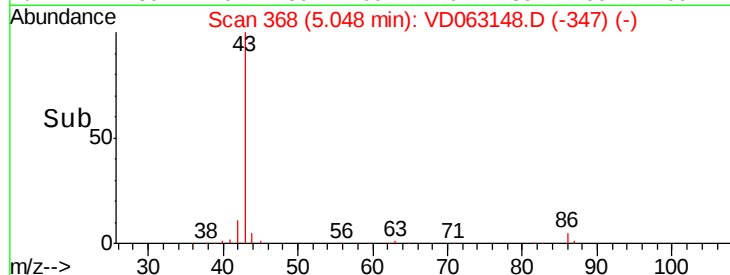
200000

100000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#24

1,1-Dichloroethane

Concen: 22.077 ug/l

RT: 4.97 min Scan# 360

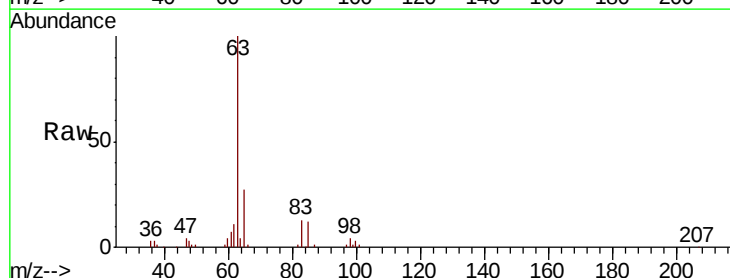
Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Tgt Ion: 63 Resp: 277008

Ion	Ratio	Lower	Upper
63	100		
98	3.8	1.7	5.1
100	3.1	1.5	4.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

100000

80000

60000

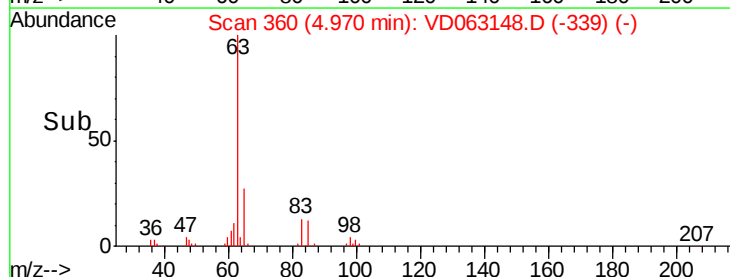
40000

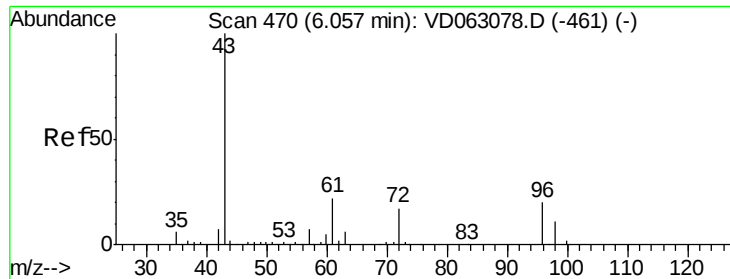
20000

0

Time-->

4.80 4.90 5.00 5.10 5.20





#25

2-Butanone

Concen: 115.298 ug/l

RT: 6.07 min Scan# 472

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

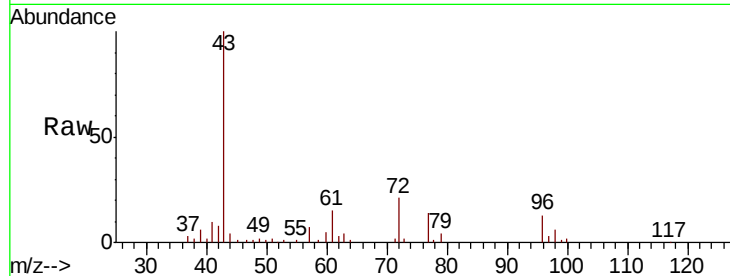
ClientSampleId :

Tot Ion: 43 Resp: 223215

Ion Ratio Lower Upper

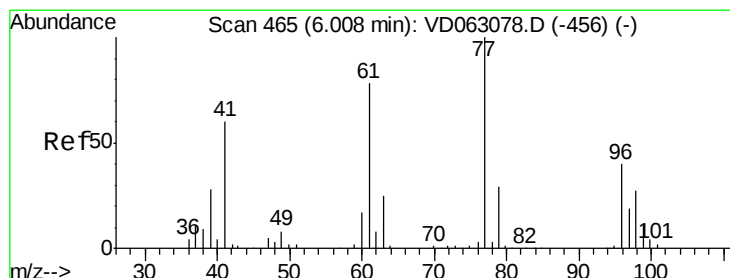
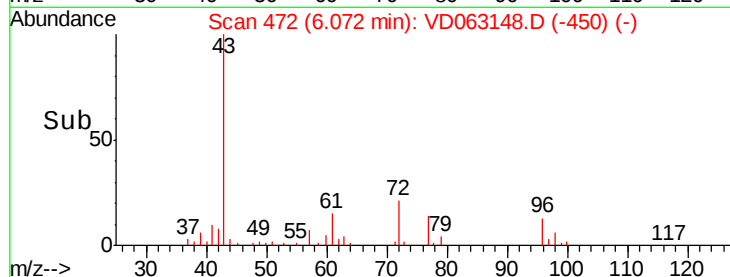
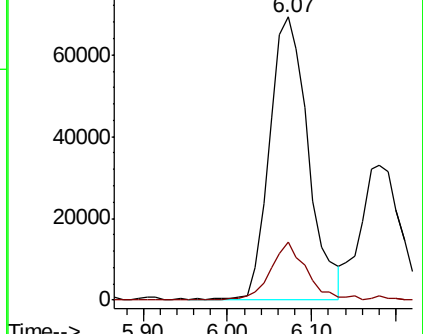
43 100

72 20.7 13.4 20.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 20.855 ug/l

RT: 6.01 min Scan# 466

Delta R.T. 0.00 min

Lab File: VD063148.D

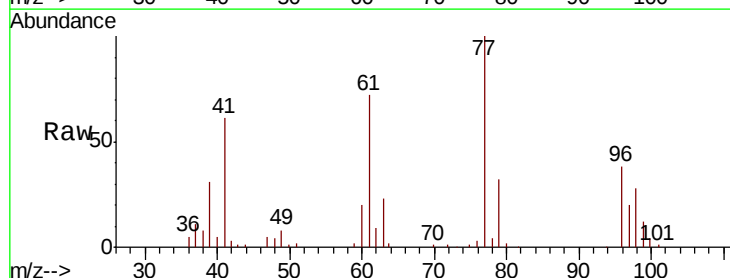
Acq: 19 Jul 2019 12:32

Tgt Ion: 77 Resp: 289609

Ion Ratio Lower Upper

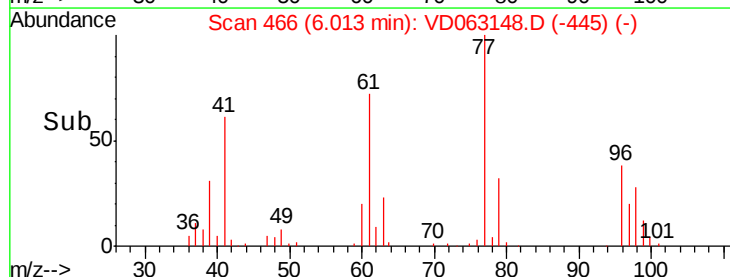
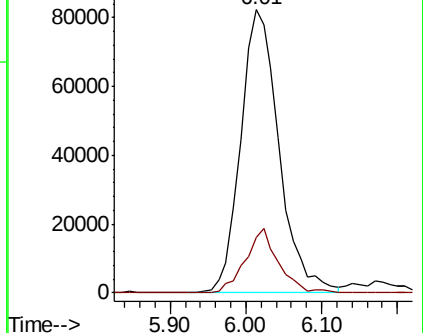
77 100

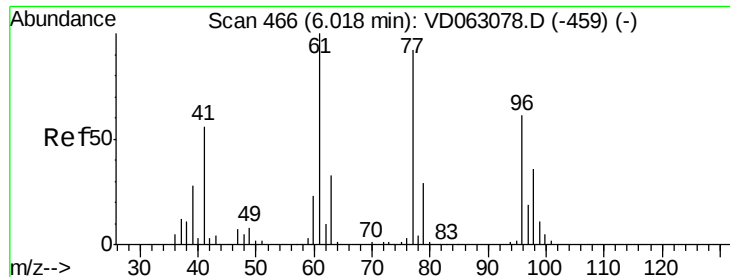
97 19.7 9.3 27.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC

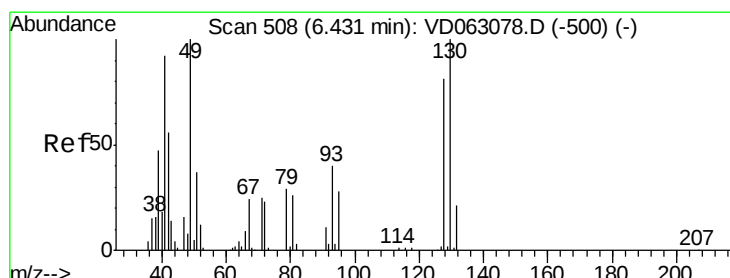
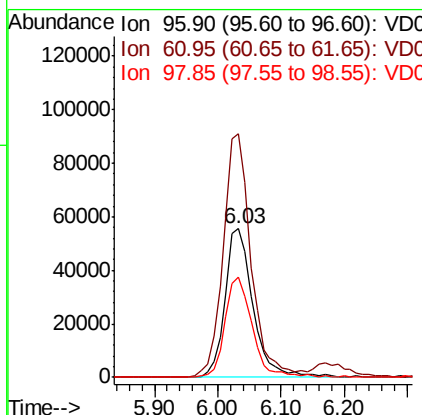
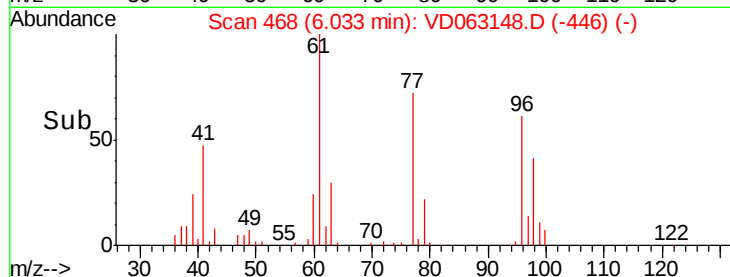
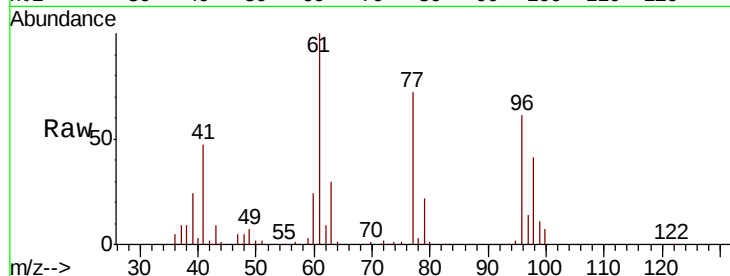




#27
 cis-1,2-Dichloroethene
 Concen: 22.628 ug/l
 RT: 6.03 min Scan# 468
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

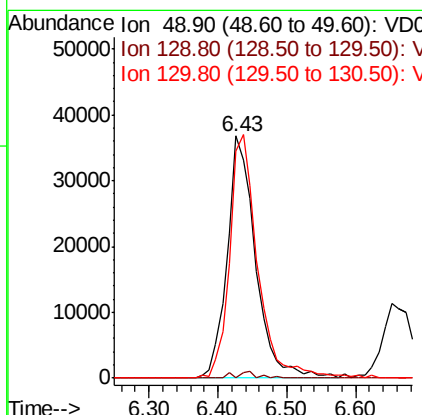
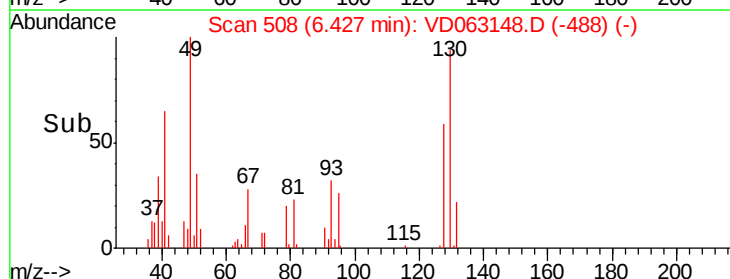
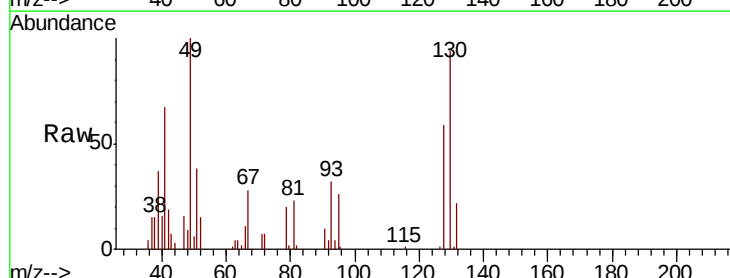
Instrument :
 MSVOA_D
 ClientSampled :

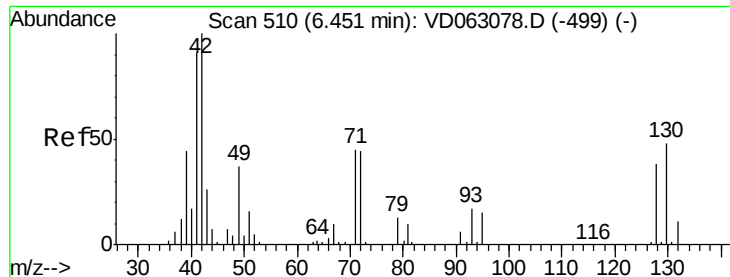
Tot Ion: 96 Resp: 170340
 Ion Ratio Lower Upper
 96 100
 61 164.1 0.0 329.6
 98 67.6 0.0 118.4



#28
 Bromochloromethane
 Concen: 23.096 ug/l
 RT: 6.43 min Scan# 508
 Delta R.T. -0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 49 Resp: 105137
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 3.6
 130 93.7 80.3 120.5





#29

Tetrahydrofuran

Concen: 119.453 ug/l

RT: 6.46 min Scan# 511

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampled :

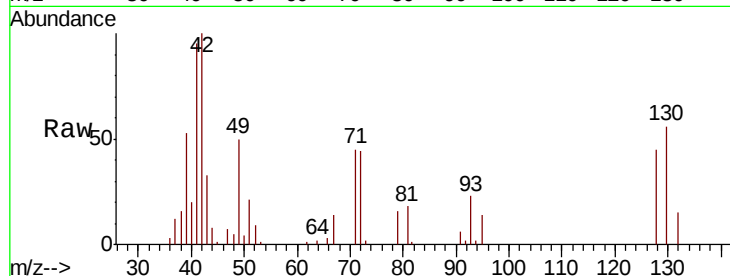
Tot Ion: 42 Resp: 104831

Ion Ratio Lower Upper

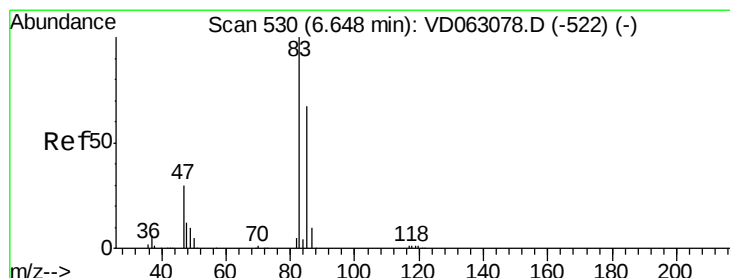
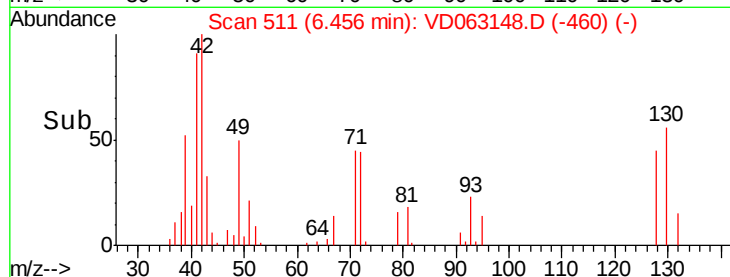
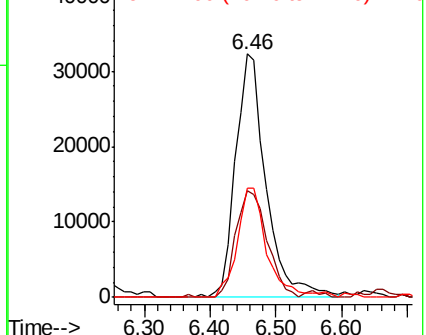
42 100

72 45.1 33.7 50.5

71 43.4 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: 22.068 ug/l

RT: 6.66 min Scan# 532

Delta R.T. 0.01 min

Lab File: VD063148.D

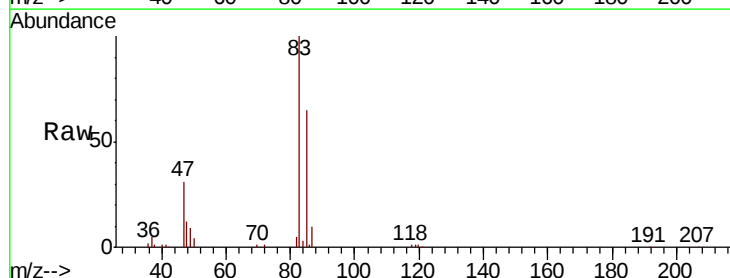
Acq: 19 Jul 2019 12:32

Tgt Ion: 83 Resp: 341024

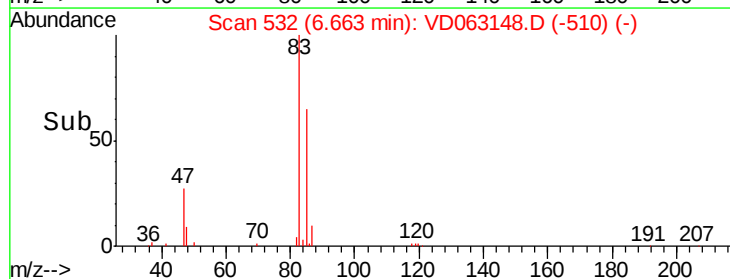
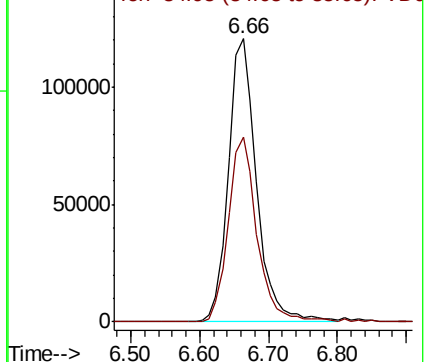
Ion Ratio Lower Upper

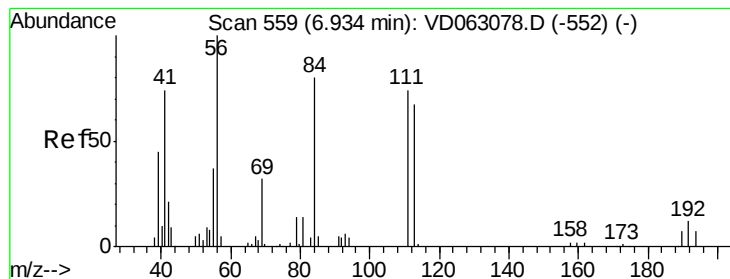
83 100

85 65.3 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: 20.653 ug/l

RT: 6.95 min Scan# 561

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :

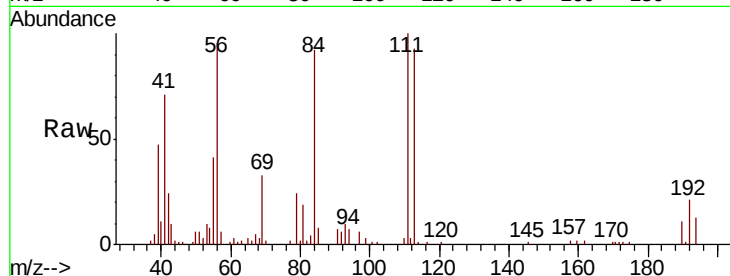
Tot Ion: 56 Resp: 165036

Ion Ratio Lower Upper

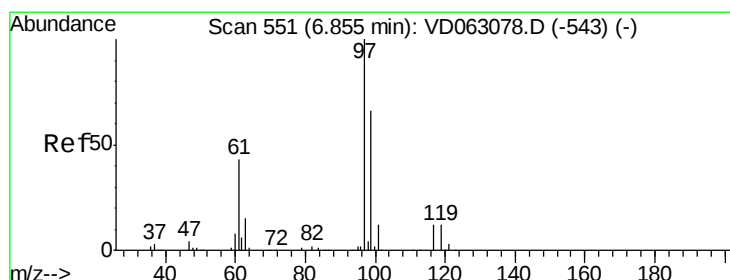
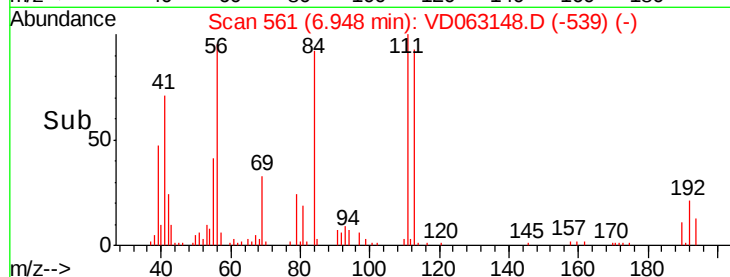
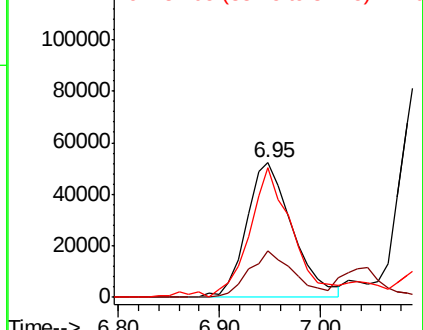
56 100

69 34.7 25.3 37.9

84 96.6 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: 22.006 ug/l

RT: 6.87 min Scan# 553

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

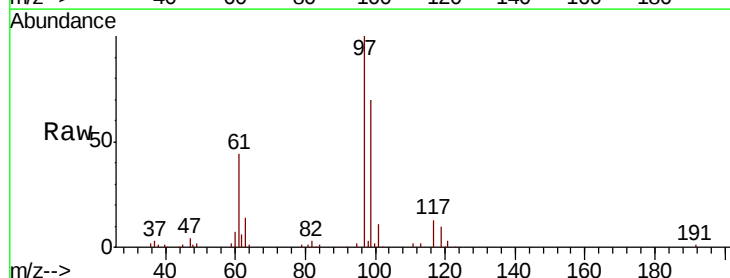
Tgt Ion: 97 Resp: 335330

Ion Ratio Lower Upper

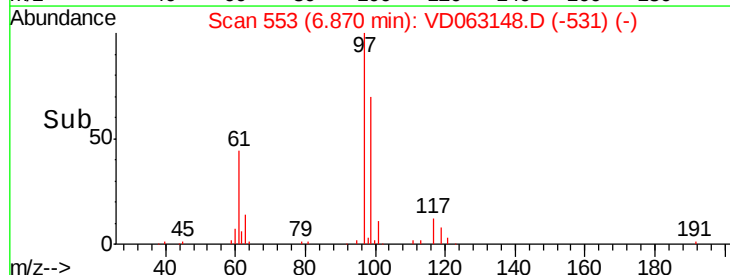
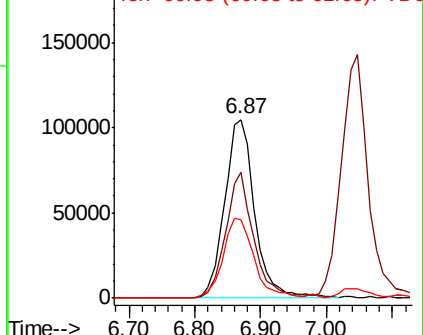
97 100

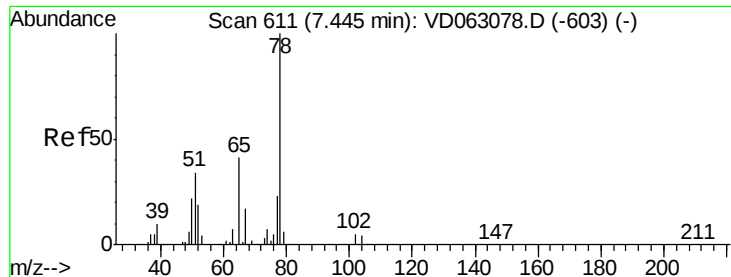
99 70.2 52.9 79.3

61 44.1 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

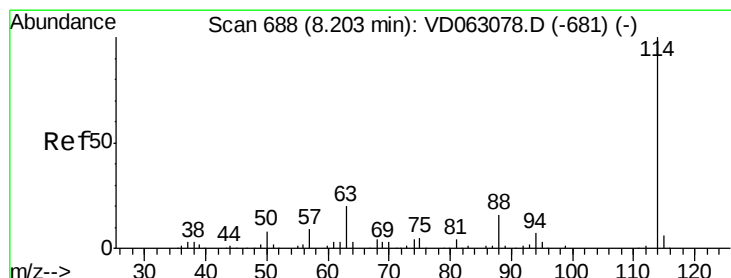
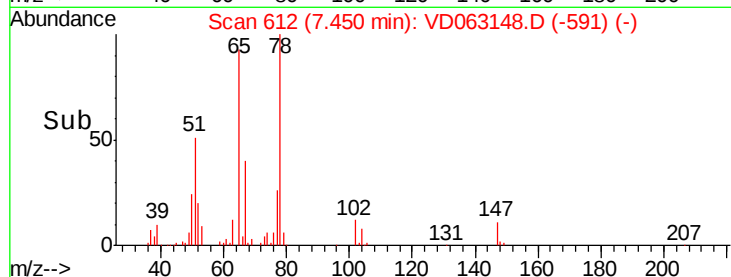
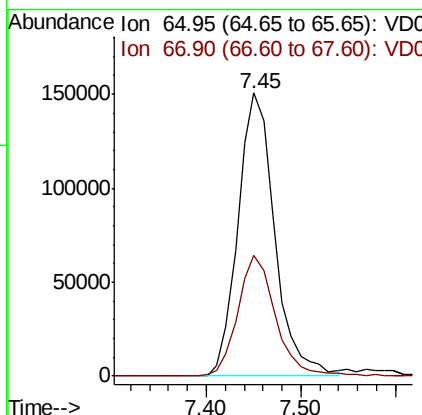
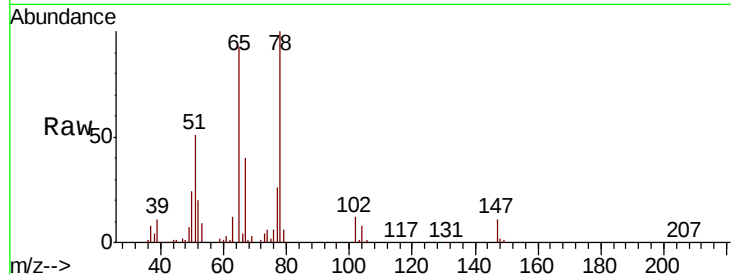




#33
 1,2-Dichloroethane-d4
 Concen: 48.240 ug/l
 RT: 7.45 min Scan# 612
 Delta R.T. 0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

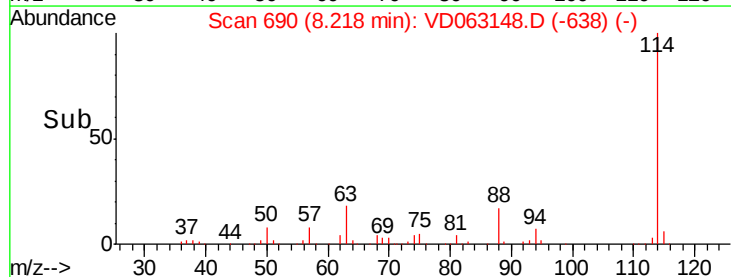
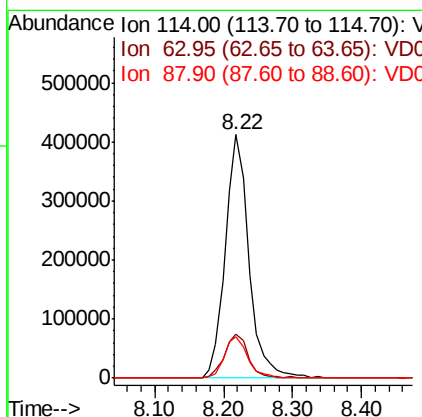
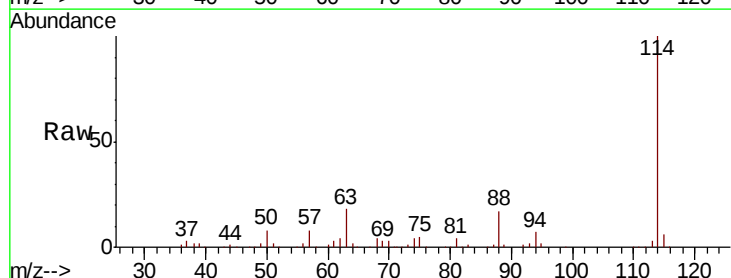
Instrument :
 MSVOA_D
 ClientSampleId :

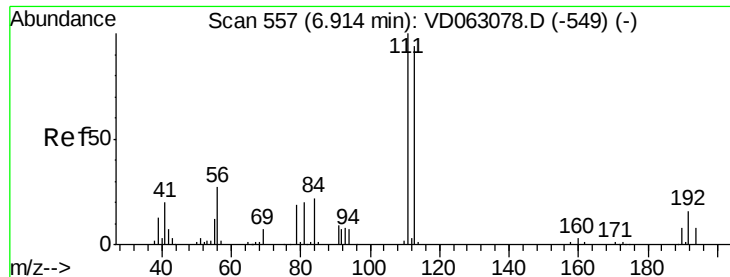
Tot Ion: 65 Resp: 404922
 Ion Ratio Lower Upper
 65 100
 67 42.8 0.0 86.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.22 min Scan# 690
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 114 Resp: 979336
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 40.6
 88 17.1 0.0 32.6

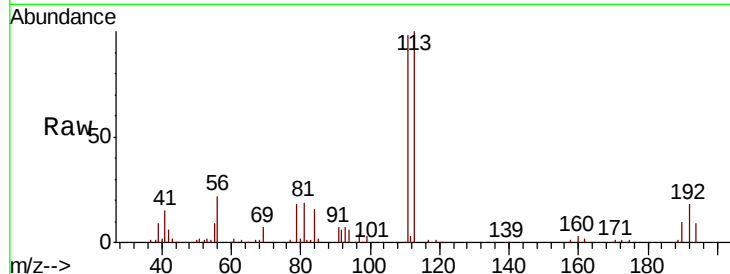




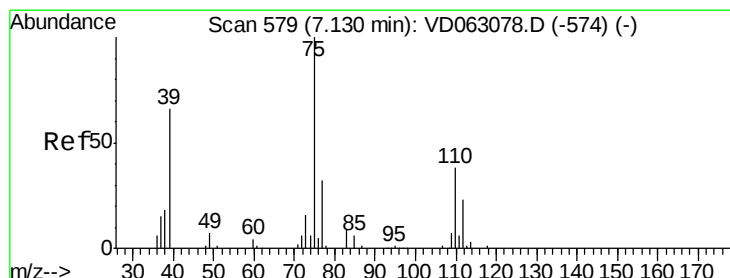
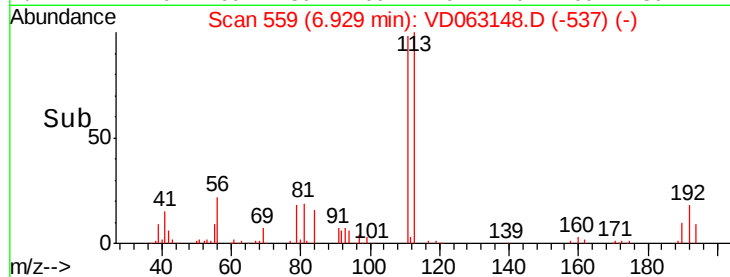
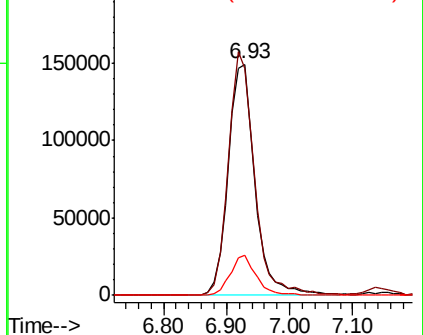
#35
 Dibromofluoromethane
 Concen: 44.663 ug/l
 RT: 6.93 min Scan# 559
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:113 Resp: 435664
 Ion Ratio Lower Upper
 113 100
 111 98.5 84.8 127.2
 192 17.6 13.4 20.0

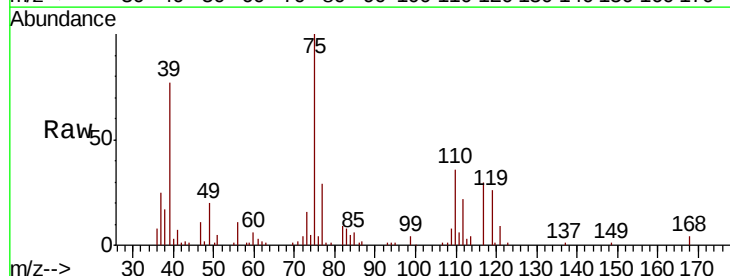


Abundance Ion 112.90 (112.60 to 113.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 191.80 (191.50 to 192.50): V

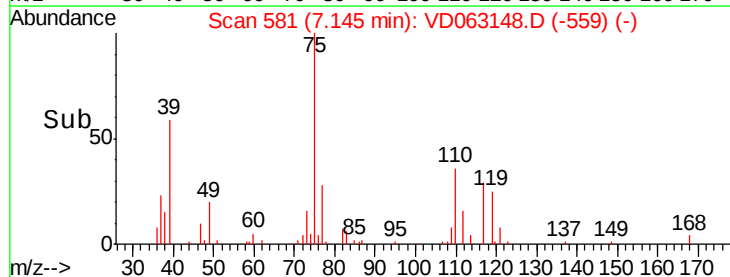
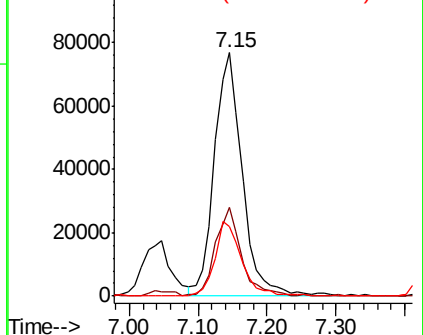


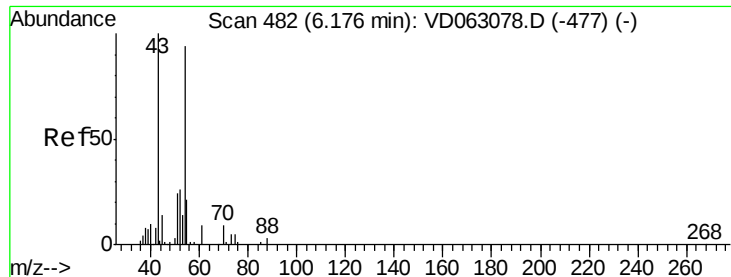
#36
 1,1-Dichloropropene
 Concen: 19.318 ug/l
 RT: 7.15 min Scan# 581
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 75 Resp: 212779
 Ion Ratio Lower Upper
 75 100
 110 36.3 18.9 56.5
 77 28.7 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

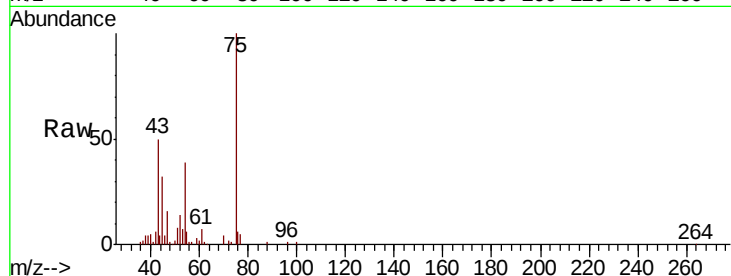




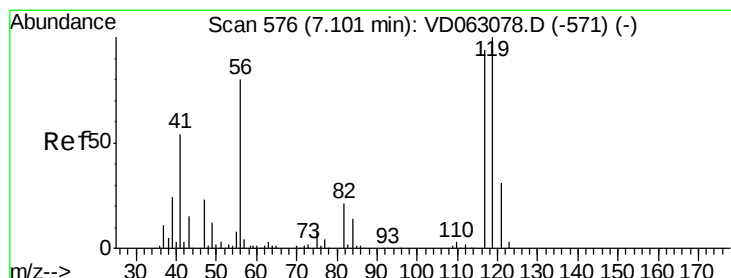
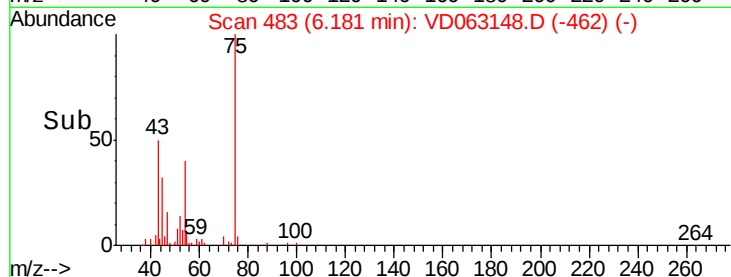
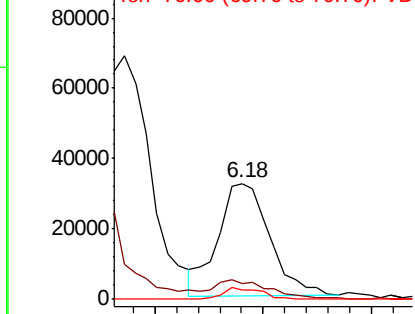
#37
Ethyl Acetate
Concen: 22.644 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 43 Resp: 106743
Ion Ratio Lower Upper
43 100
61 13.4 10.6 16.0
70 8.6 6.6 9.8

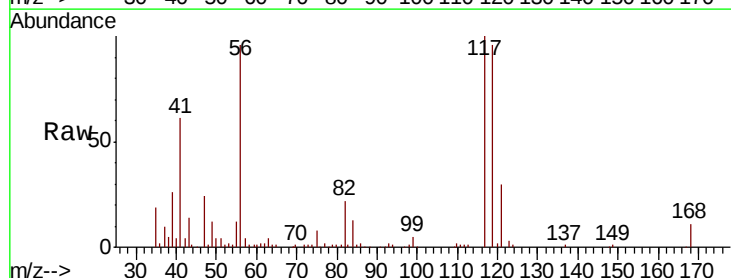


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

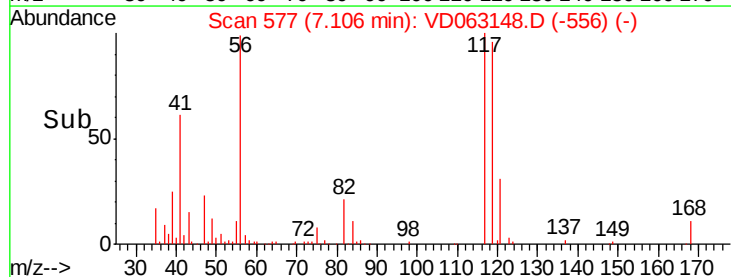
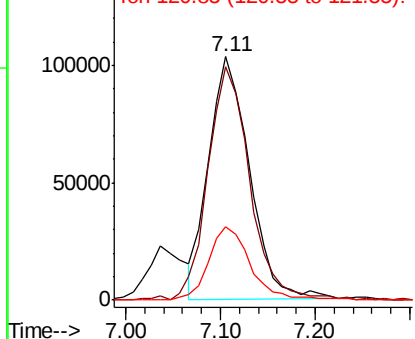


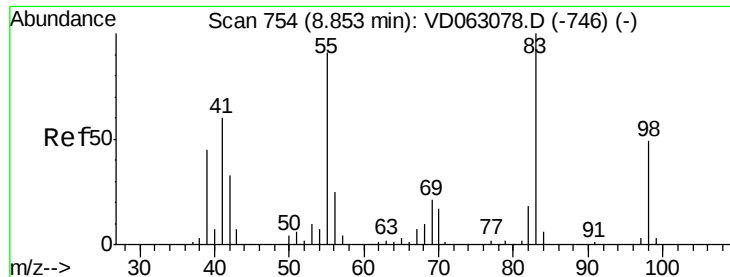
#38
Carbon Tetrachloride
Concen: 18.510 ug/l
RT: 7.11 min Scan# 577
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 117 Resp: 309792
Ion Ratio Lower Upper
117 100
119 95.8 80.0 120.0
121 30.0 25.0 37.4



Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

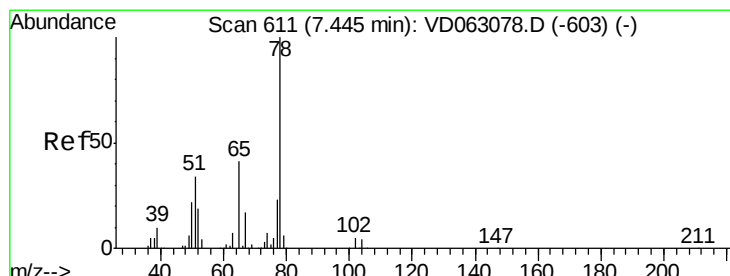
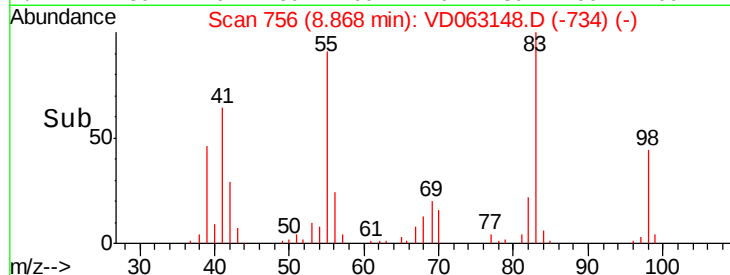
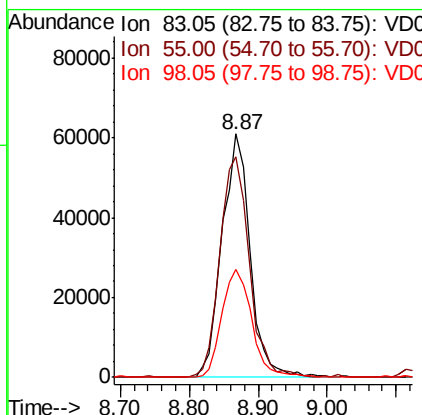
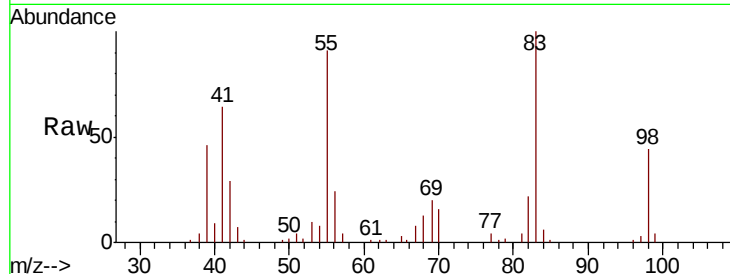




#39
Methvlcvclohexane
Concen: 18.107 ug/l
RT: 8.87 min Scan# 756
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

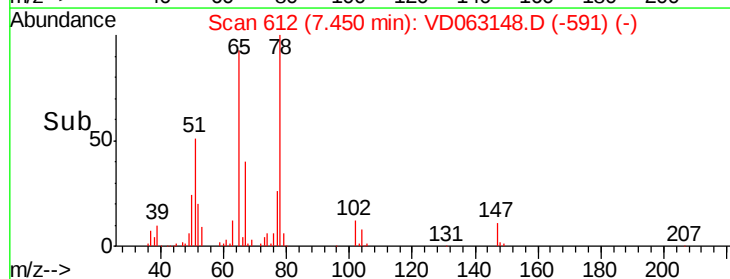
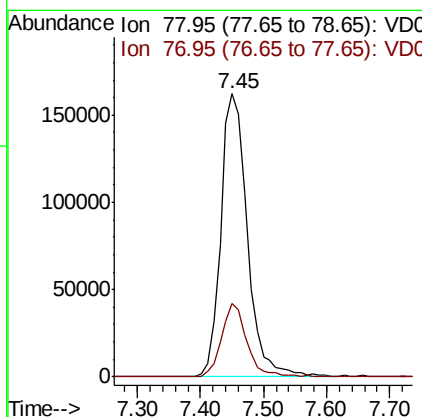
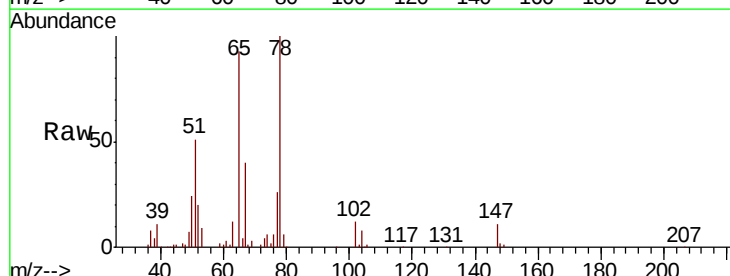
Instrument :
MSVOA_D
ClientSampled :

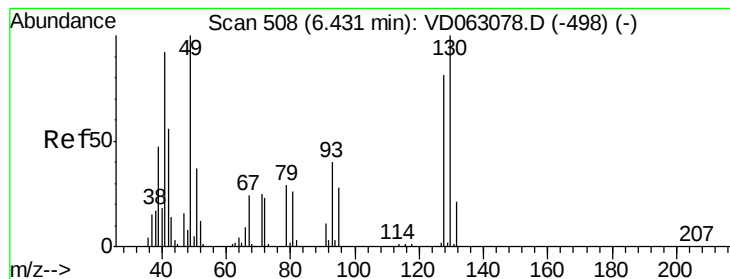
Tot Ion: 83 Resp: 172426
Ion Ratio Lower Upper
83 100
55 90.6 73.0 109.4
98 44.3 39.4 59.0



#40
Benzene
Concen: 20.542 ug/l
RT: 7.45 min Scan# 612
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 78 Resp: 473888
Ion Ratio Lower Upper
78 100
77 26.0 18.1 27.1





#41

Methacrylonitrile

Concen: 22.114 ug/l

RT: 6.45 min Scan# 510

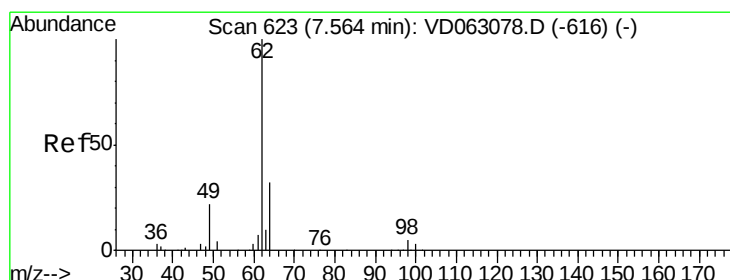
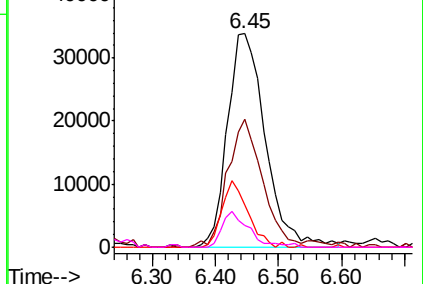
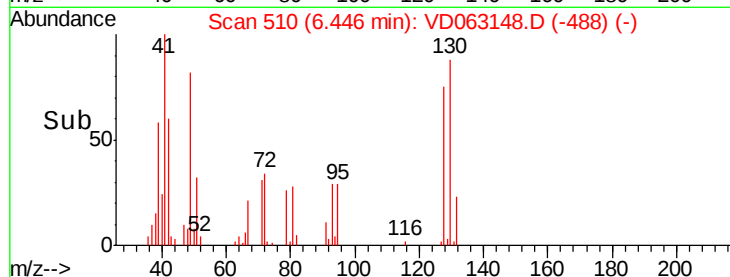
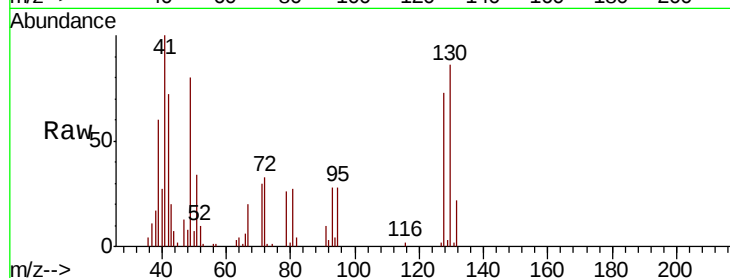
Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:	41	Resp:	141331
Ion	Ratio	Lower	Upper
41	100		
39	59.8	41.0	61.6
67	20.0	21.3	31.9#
52	10.3	10.5	15.7#



#42

1,2-Dichloroethane

Concen: 19.912 ug/l

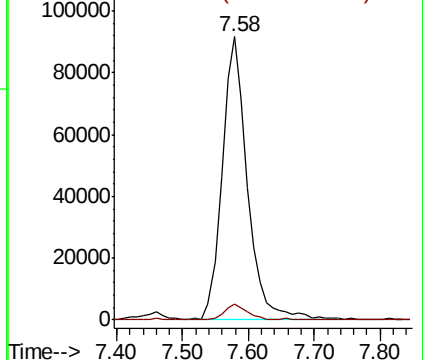
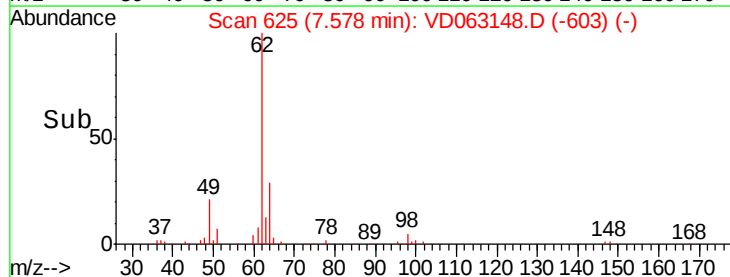
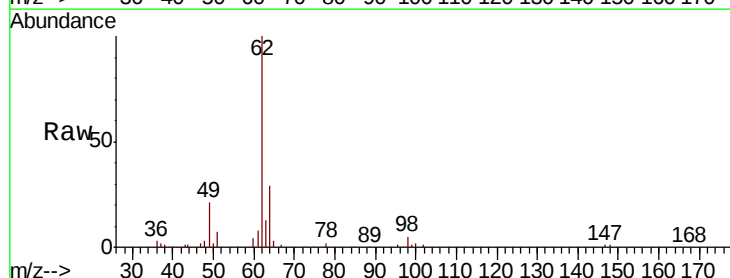
RT: 7.58 min Scan# 625

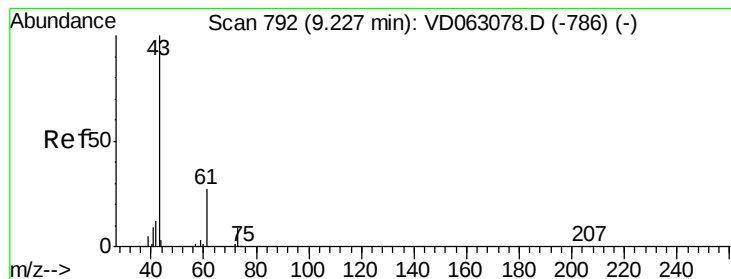
Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Tgt Ion:	62	Resp:	244723
Ion	Ratio	Lower	Upper
62	100		
98	5.5	0.0	9.6



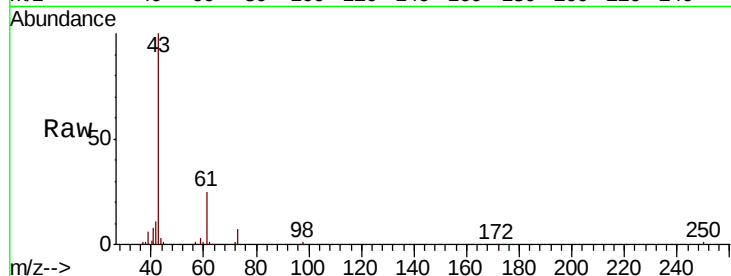


#43

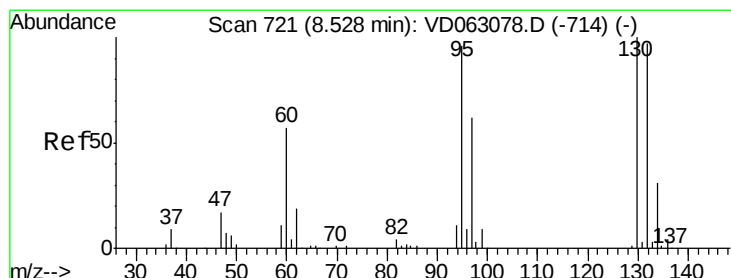
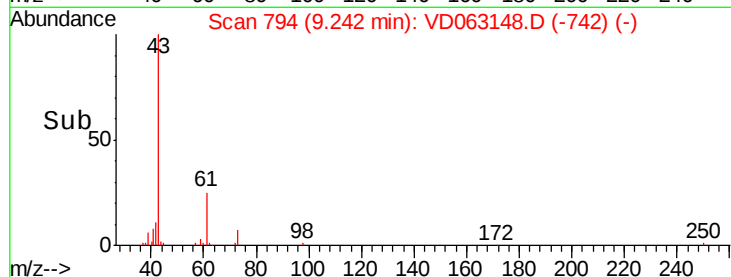
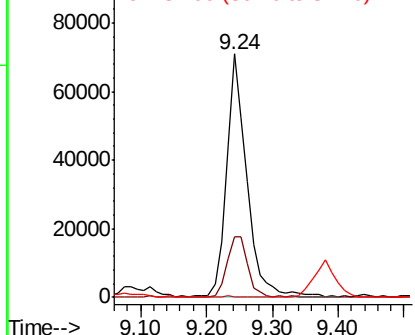
Isopropyl Acetate
 Concen: 22.814 ug/l
 RT: 9.24 min Scan# 794
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 43 Resp: 154144
 Ion Ratio Lower Upper
 43 100
 61 24.7 21.7 32.5
 87 0.0 0.2 0.4#



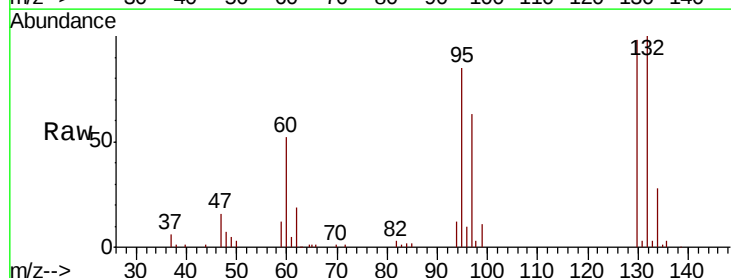
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



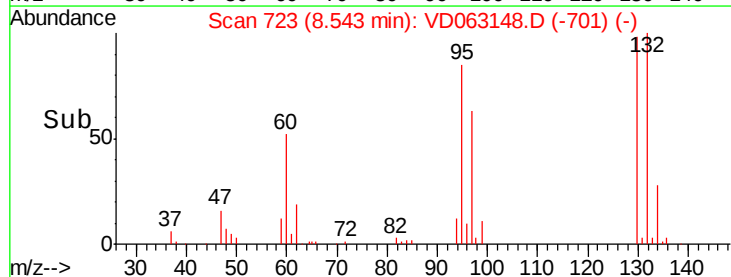
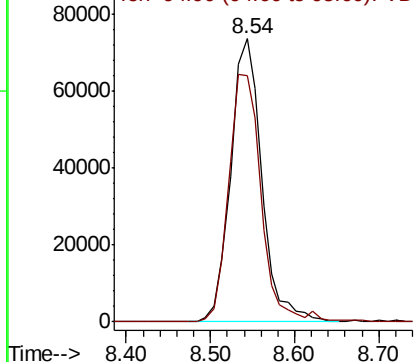
#44

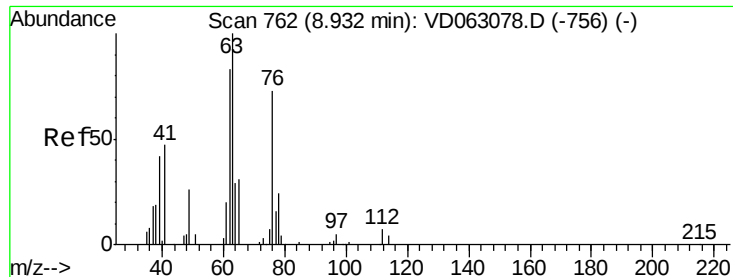
Trichloroethene
 Concen: 21.263 ug/l
 RT: 8.54 min Scan# 723
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion:130 Resp: 189561
 Ion Ratio Lower Upper
 130 100
 95 86.9 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: 20.011 ug/l

RT: 8.95 min Scan# 764

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

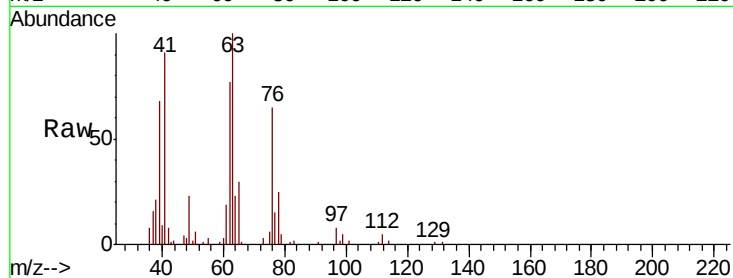
ClientSampled :

Tot Ion: 63 Resp: 115094

Ion Ratio Lower Upper

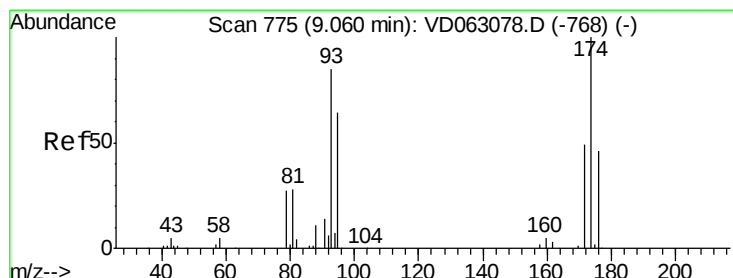
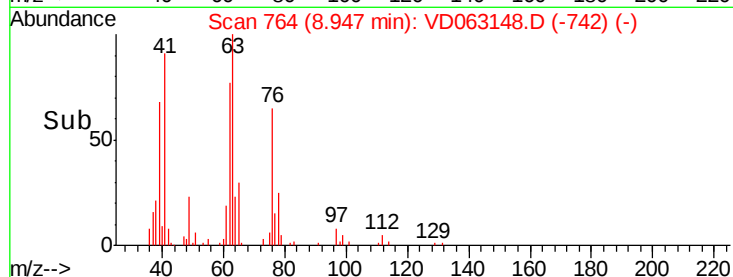
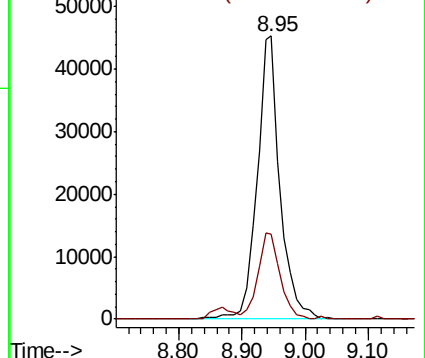
63 100

65 29.9 26.3 39.5



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 20.137 ug/l

RT: 9.06 min Scan# 776

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

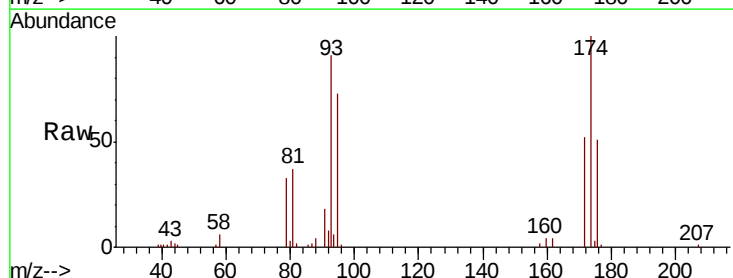
Tgt Ion: 93 Resp: 99524

Ion Ratio Lower Upper

93 100

95 80.5 59.7 89.5

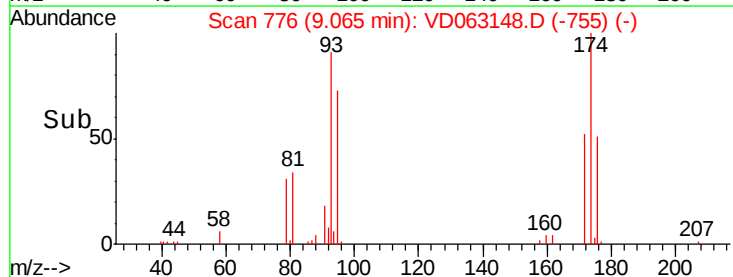
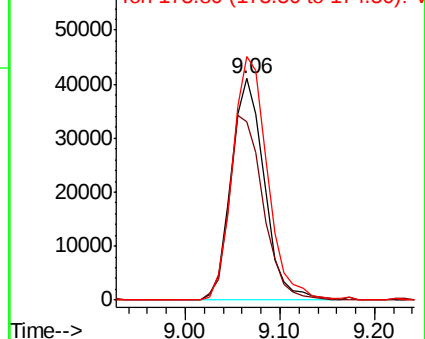
174 110.0 93.9 140.9

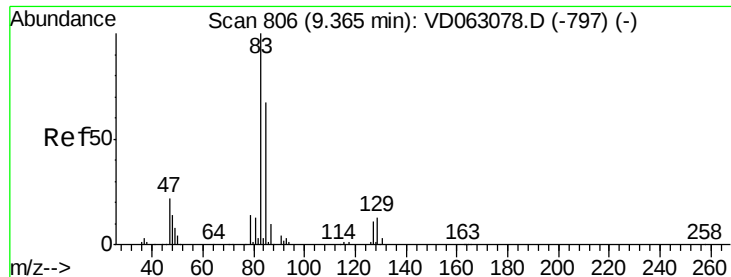


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V





#47

Bromodichloromethane

Concen: 20.157 ug/l

RT: 9.38 min Scan# 808

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

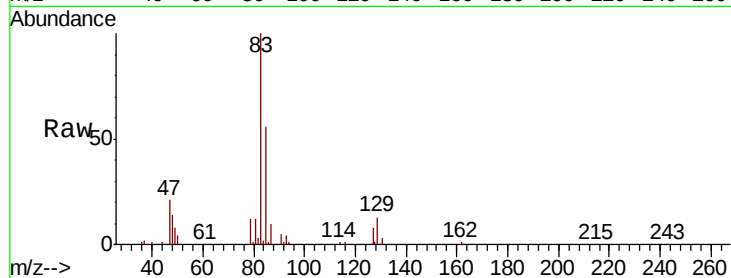
Tot Ion: 83 Resp: 259970

Ion Ratio Lower Upper

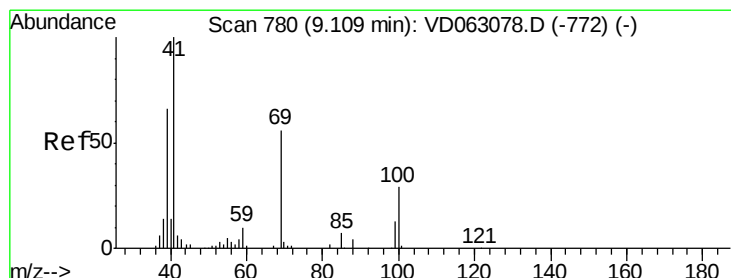
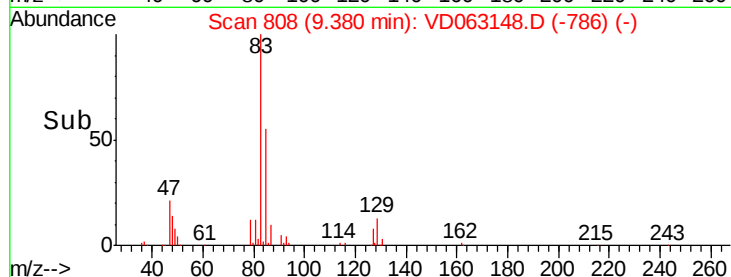
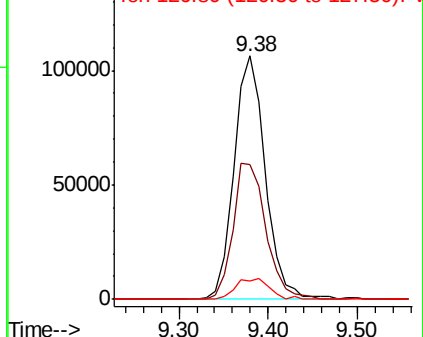
83 100

85 55.6 53.7 80.5

127 7.7 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: 22.146 ug/l

RT: 9.12 min Scan# 782

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

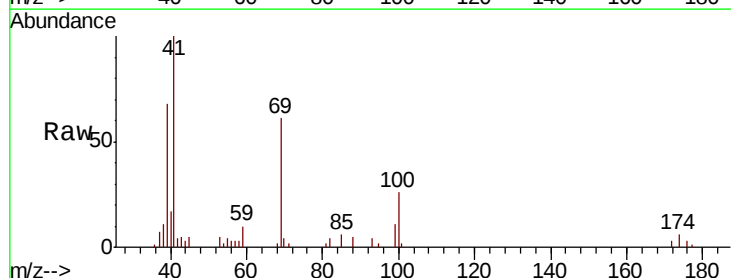
Tgt Ion: 41 Resp: 98262

Ion Ratio Lower Upper

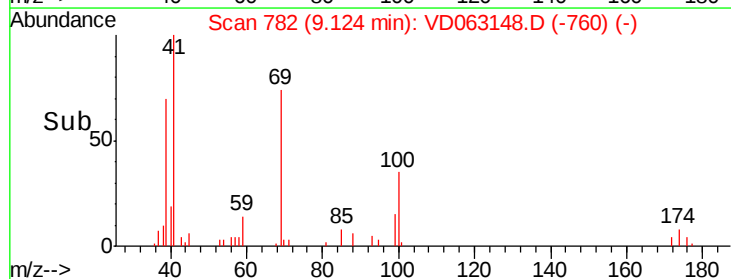
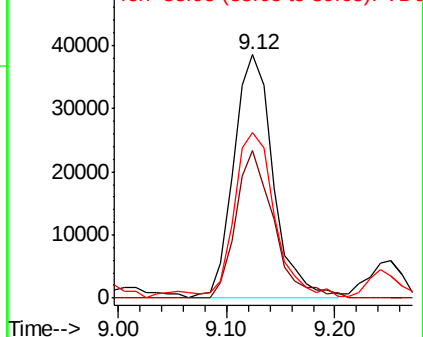
41 100

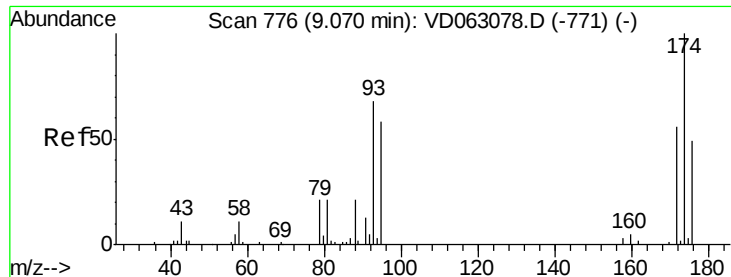
69 60.6 44.3 66.5

39 67.9 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

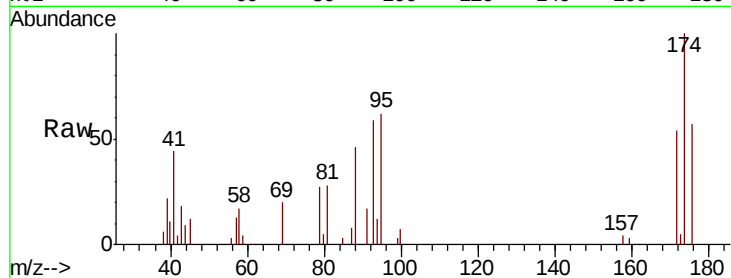




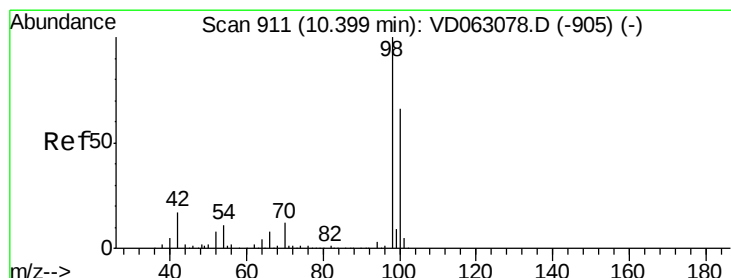
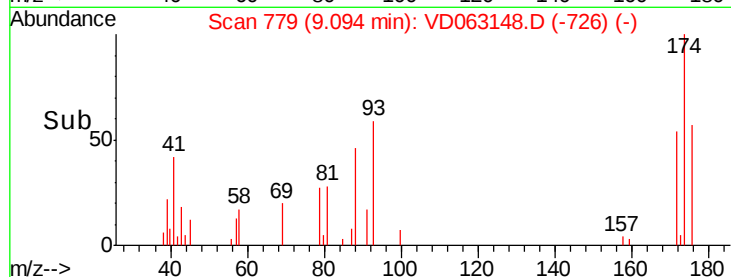
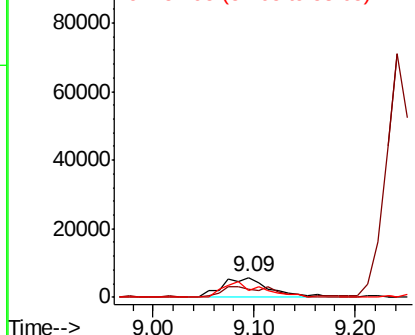
#49
1,4-Dioxane
Concen: 476.373 ug/l
RT: 9.09 min Scan# 779
Delta R.T. 0.02 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 88 Resp: 18229
Ion Ratio Lower Upper
88 100
43 40.0 40.2 60.4#
58 36.9 41.6 62.4#

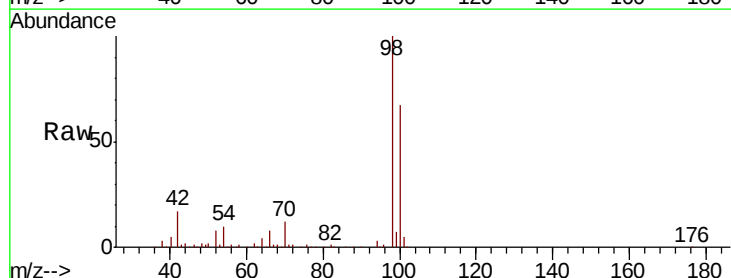


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

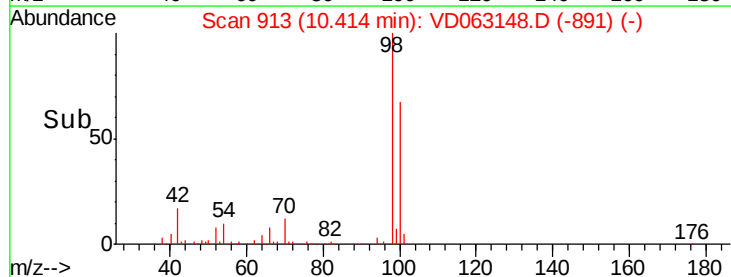
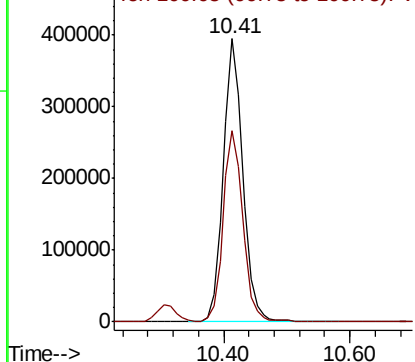


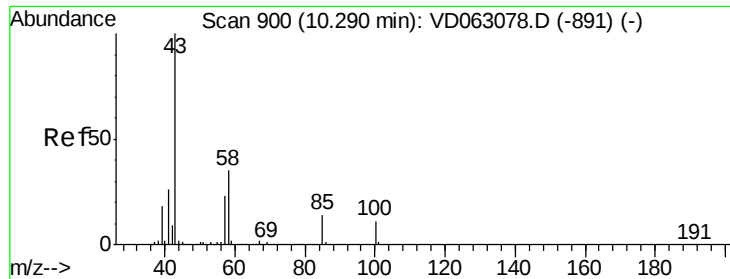
#50
Toluene-d8
Concen: 40.838 ug/l
RT: 10.41 min Scan# 913
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 98 Resp: 855665
Ion Ratio Lower Upper
98 100
100 67.5 53.5 80.3



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

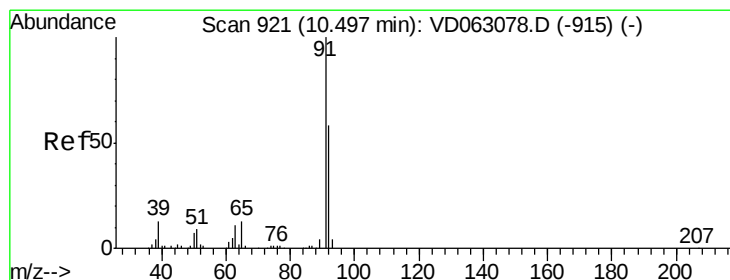
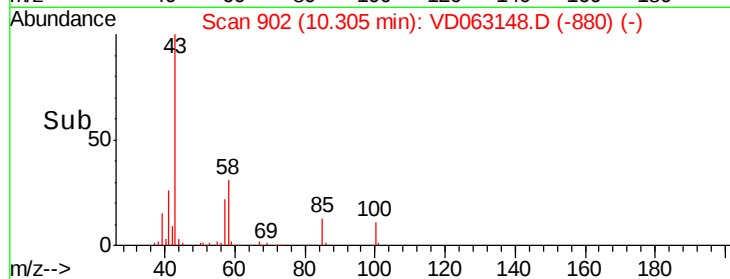
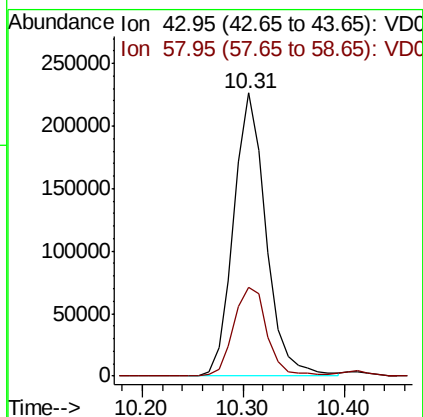
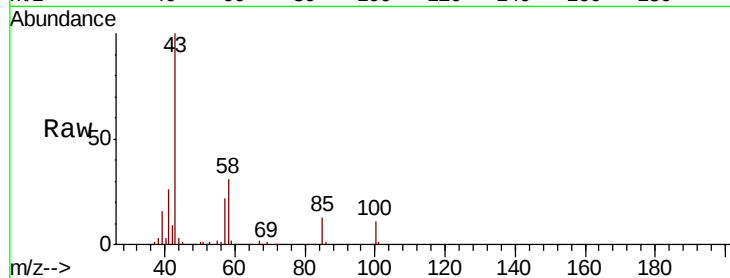




#51
 4-Methyl-2-Pentanone
 Concen: 113.093 ug/l
 RT: 10.31 min Scan# 902
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

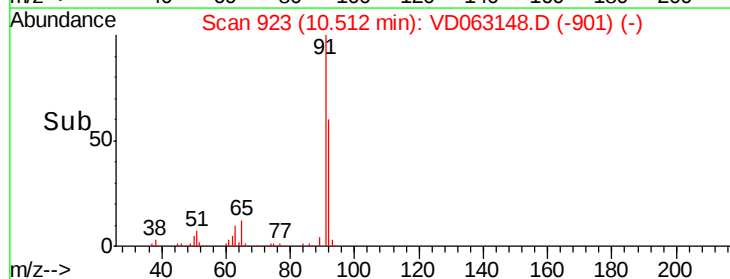
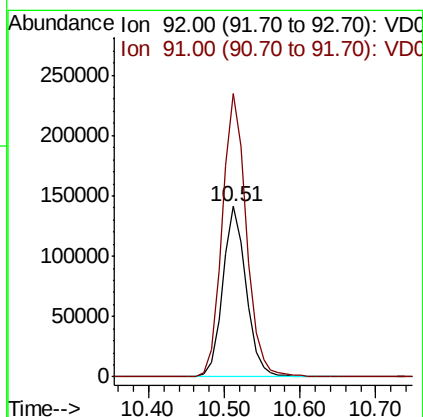
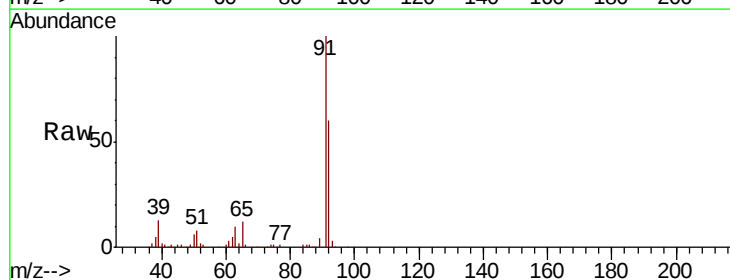
Instrument :
 MSVOA_D
 ClientSampleID :

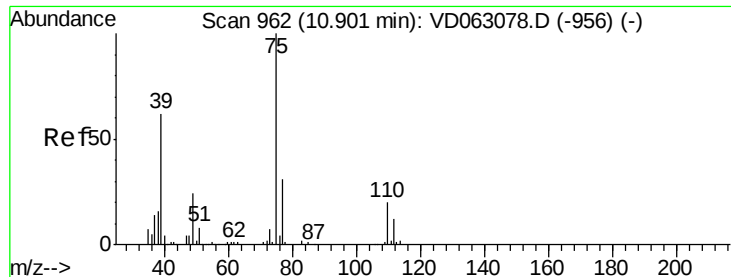
Tot Ion: 43 Resp: 506813
 Ion Ratio Lower Upper
 43 100
 58 31.4 27.8 41.6



#52
 Toluene
 Concen: 19.639 ug/l
 RT: 10.51 min Scan# 923
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 92 Resp: 302537
 Ion Ratio Lower Upper
 92 100
 91 166.2 137.9 206.9

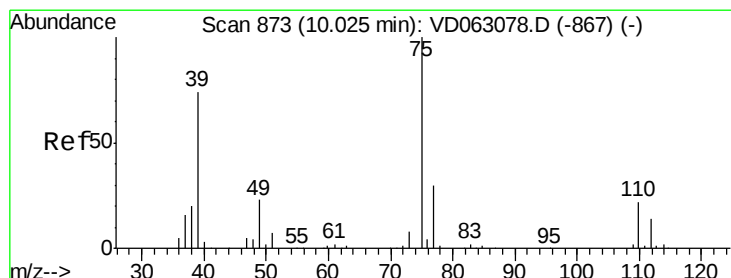
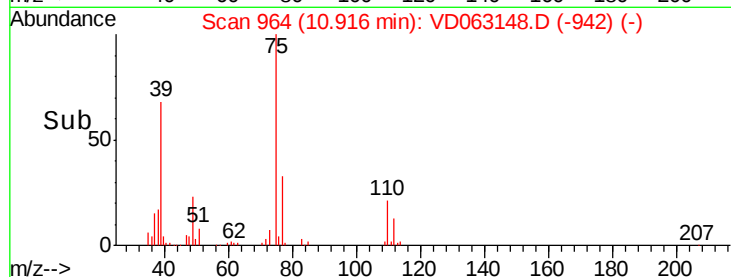
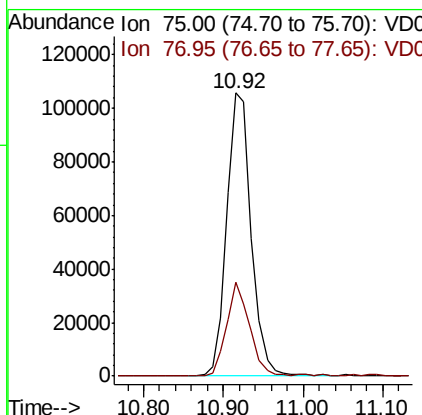
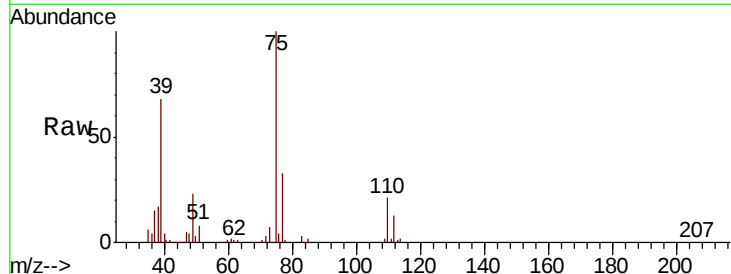




#53
 t-1,3-Dichloropropene
 Concen: 20.624 ug/l
 RT: 10.92 min Scan# 964
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

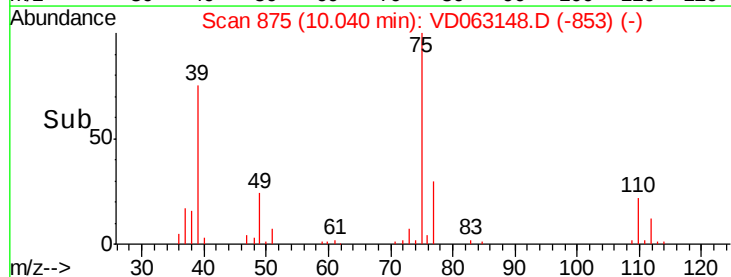
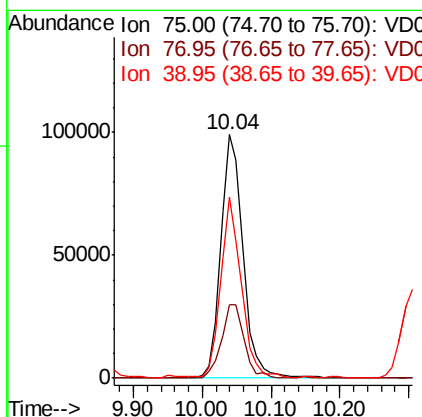
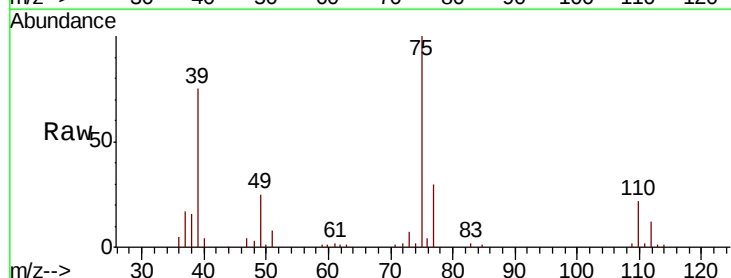
Instrument :
 MSVOA_D
 ClientSampleId :

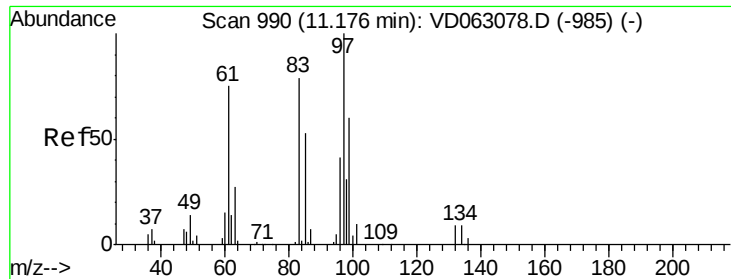
Tot Ion: 75 Resp: 227896
 Ion Ratio Lower Upper
 75 100
 77 33.4 24.9 37.3



#54
 cis-1,3-Dichloropropene
 Concen: 19.368 ug/l
 RT: 10.04 min Scan# 875
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 75 Resp: 221285
 Ion Ratio Lower Upper
 75 100
 77 30.2 23.9 35.9
 39 74.5 59.4 89.0





#55

1,1,2-Trichloroethane

Concen: 21.357 ug/l

RT: 11.19 min Scan# 992

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 113693

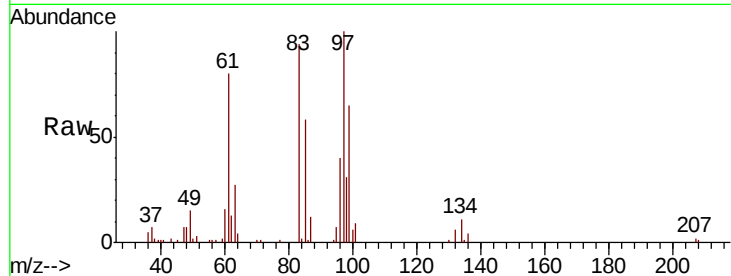
Ion Ratio Lower Upper

97 100

83 93.9 63.2 94.8

85 57.8 42.0 63.0

99 64.7 48.3 72.5

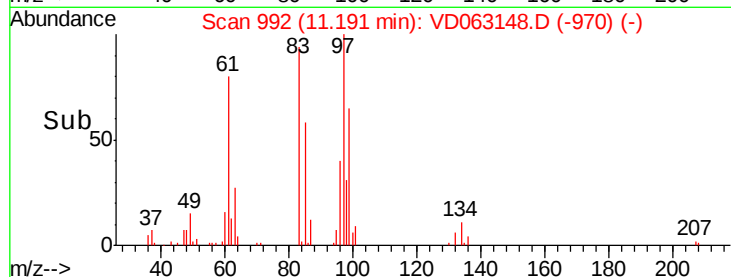
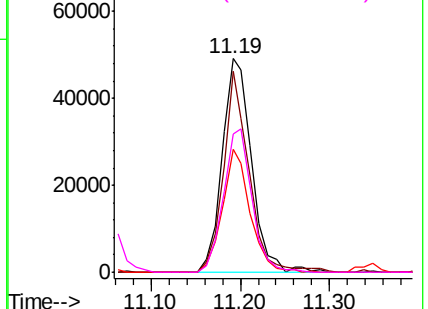


Abundance Ion 96.85 (96.55 to 97.55): VDC

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: 22.217 ug/l

RT: 11.04 min Scan# 977

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

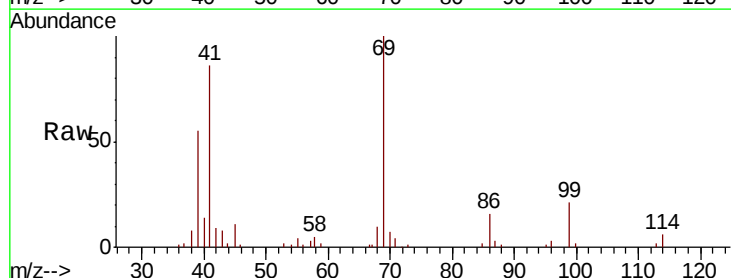
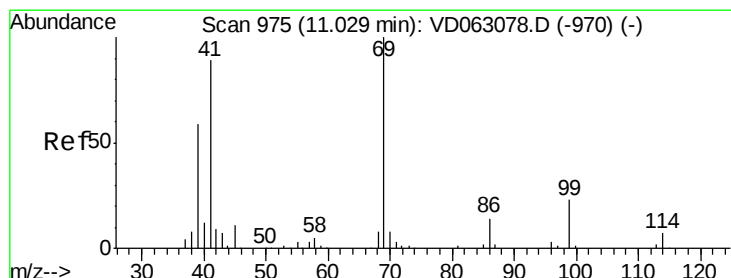
Tgt Ion: 69 Resp: 132150

Ion Ratio Lower Upper

69 100

41 86.1 71.0 106.4

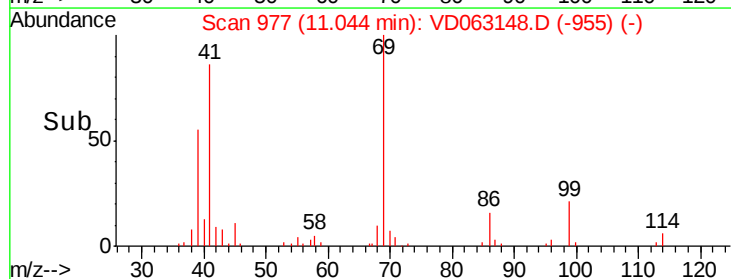
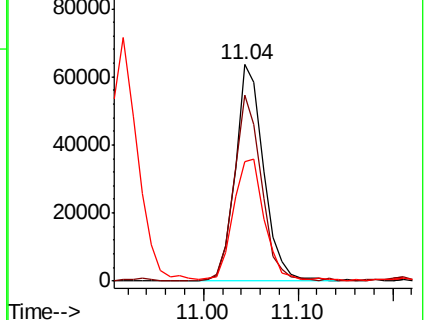
39 55.3 47.7 71.5

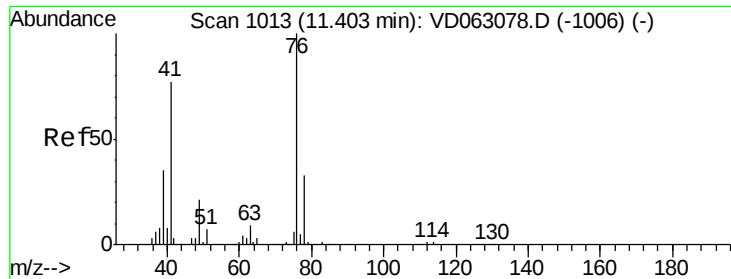


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 20.416 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

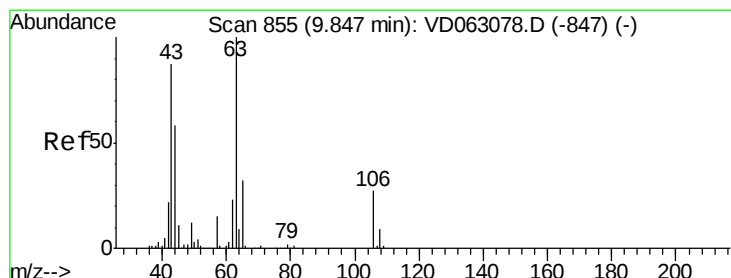
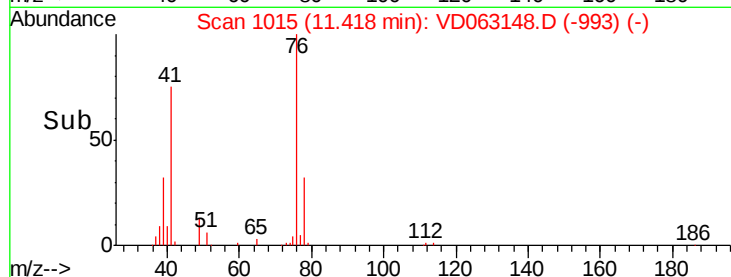
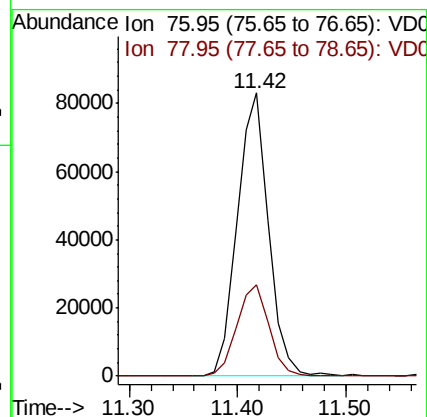
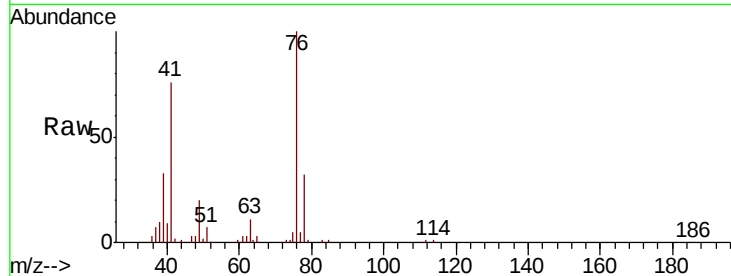
ClientSampleId :

Tot Ion: 76 Resp: 165384

Ion Ratio Lower Upper

76 100

78 32.4 26.8 40.2



#58

2-Chloroethyl Vinyl ether

Concen: 104.622 ug/l

RT: 9.86 min Scan# 857

Delta R.T. 0.01 min

Lab File: VD063148.D

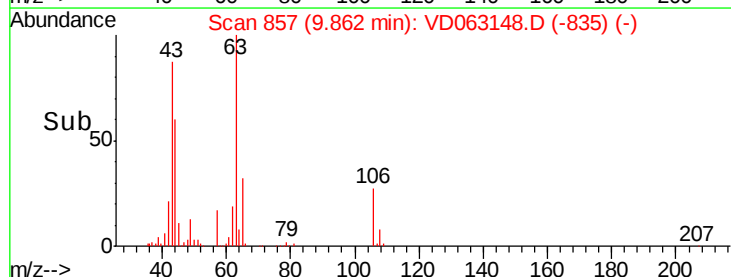
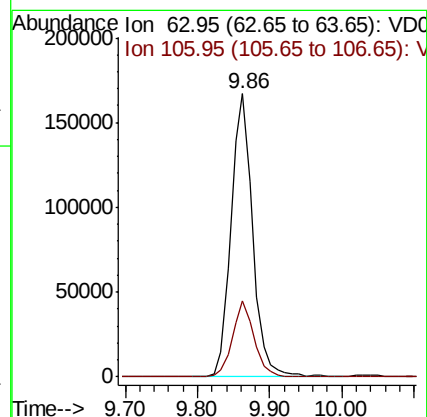
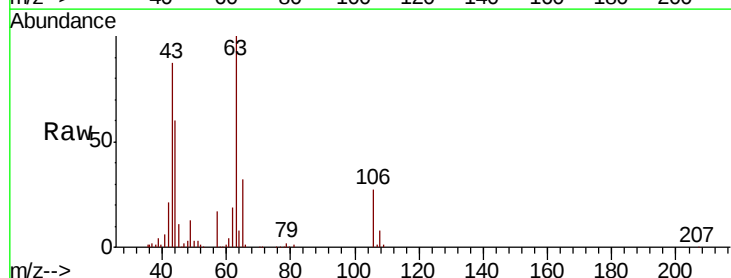
Acq: 19 Jul 2019 12:32

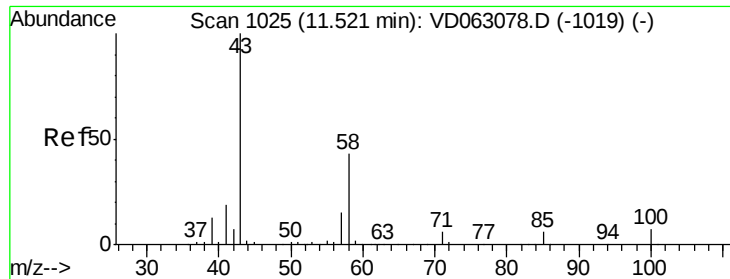
Tgt Ion: 63 Resp: 346498

Ion Ratio Lower Upper

63 100

106 27.0 21.3 31.9

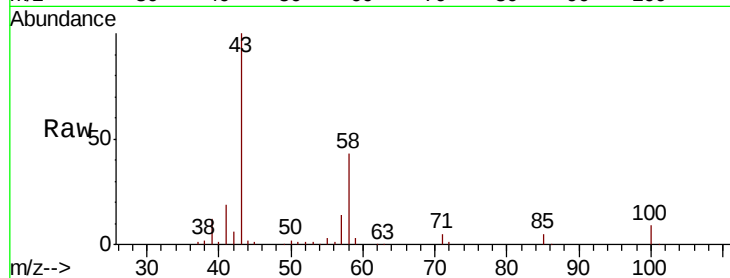




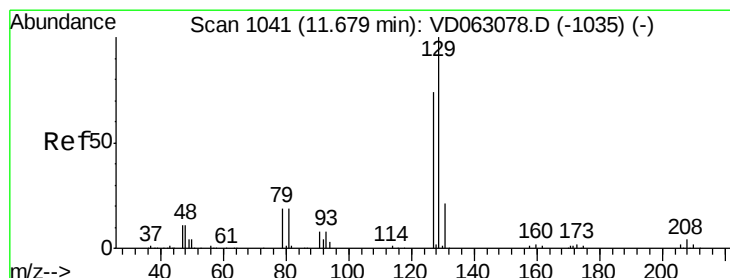
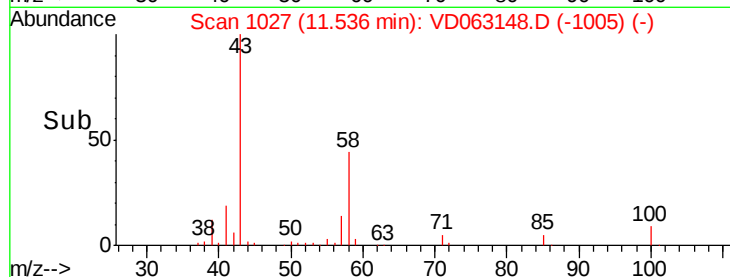
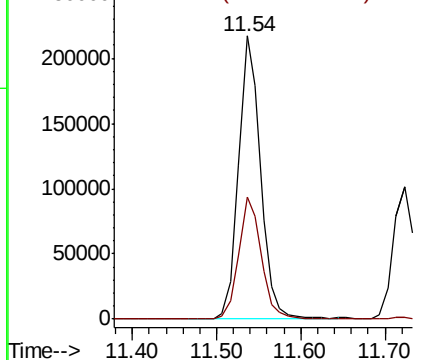
#59
2-Hexanone
Concen: 114.358 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 395230
Ion Ratio Lower Upper
43 100
58 43.3 21.7 65.1

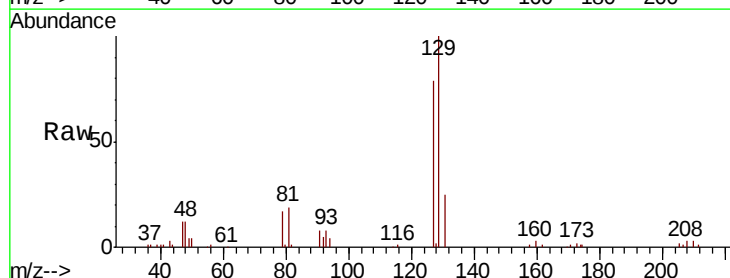


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

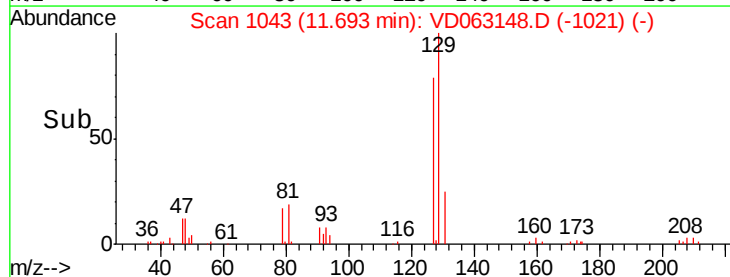
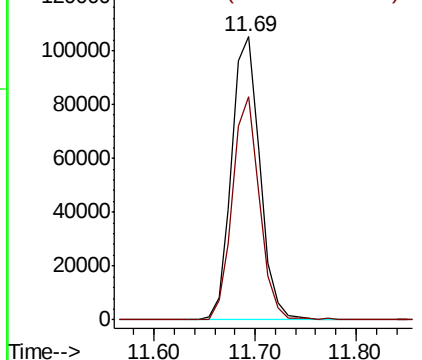


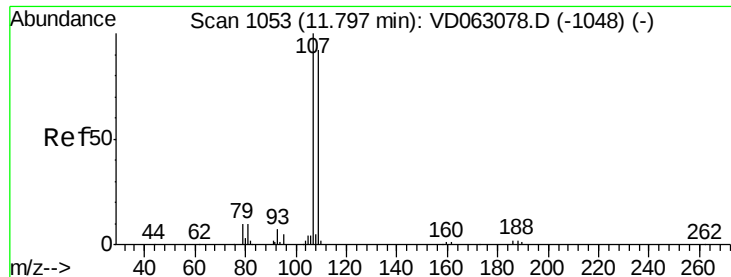
#60
Dibromochloromethane
Concen: 20.032 ug/l
RT: 11.69 min Scan# 1043
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 129 Resp: 204415
Ion Ratio Lower Upper
129 100
127 78.7 37.0 110.9



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

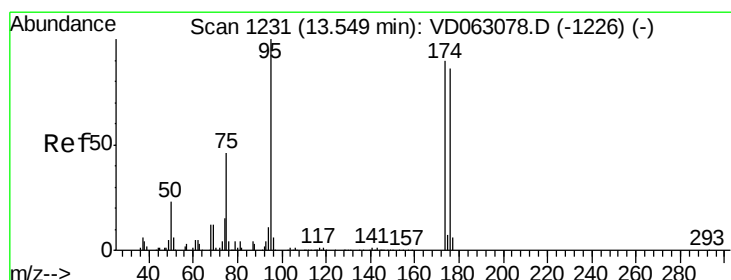
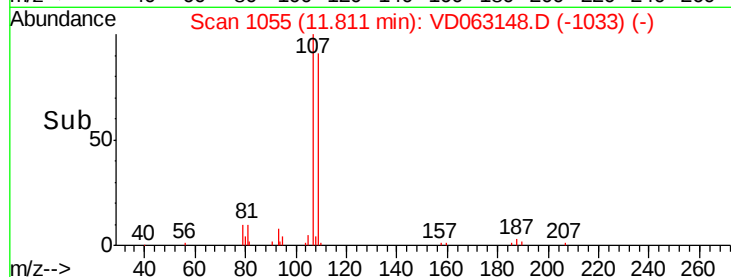
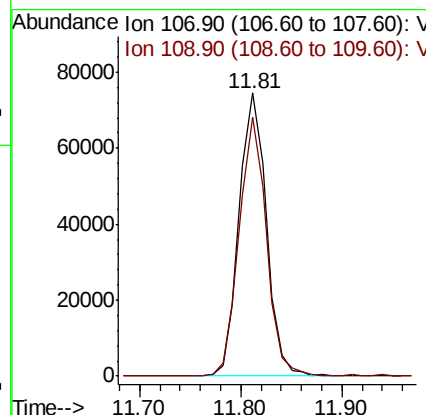
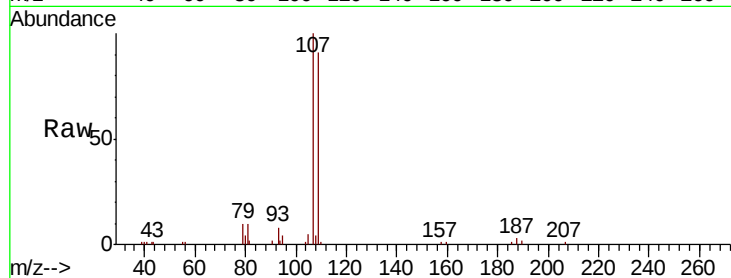




#61
 1,2-Dibromoethane
 Concen: 22.020 ug/l
 RT: 11.81 min Scan# 1055
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

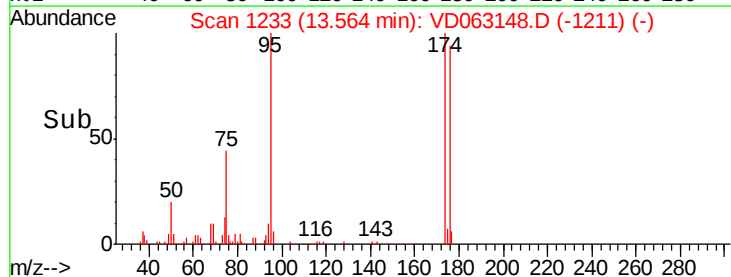
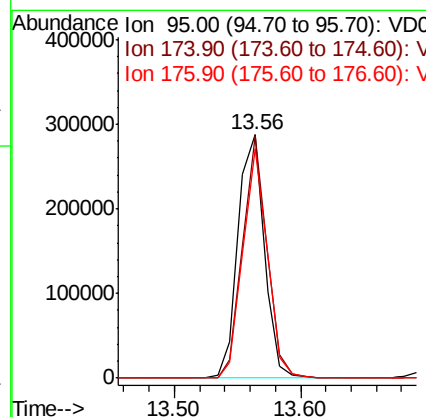
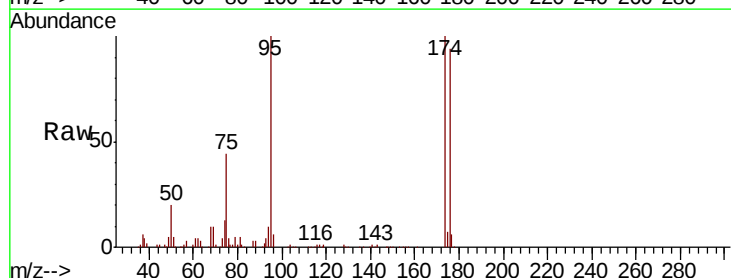
Instrument :
 MSVOA_D
 ClientSampleId :

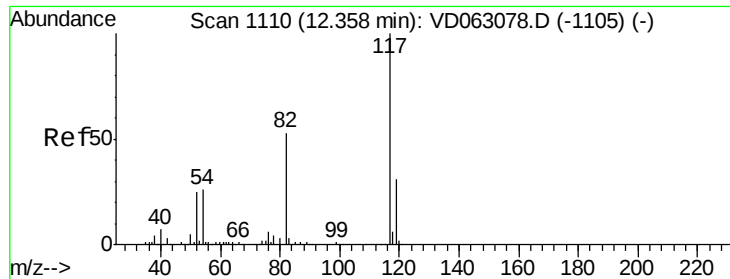
Tot Ion:107 Resp: 140319
 Ion Ratio Lower Upper
 107 100
 109 91.5 73.6 110.4



#62
 4-Bromofluorobenzene
 Concen: 42.424 ug/l
 RT: 13.56 min Scan# 1233
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 95 Resp: 411233
 Ion Ratio Lower Upper
 95 100
 174 99.6 0.0 180.6
 176 94.3 0.0 172.2

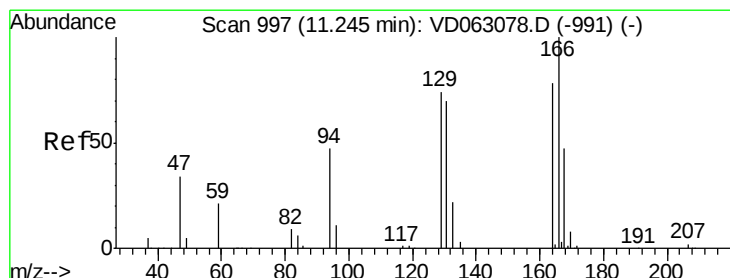
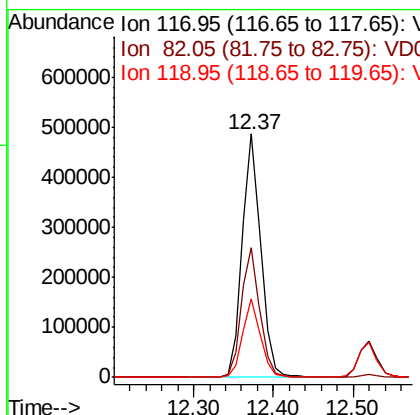
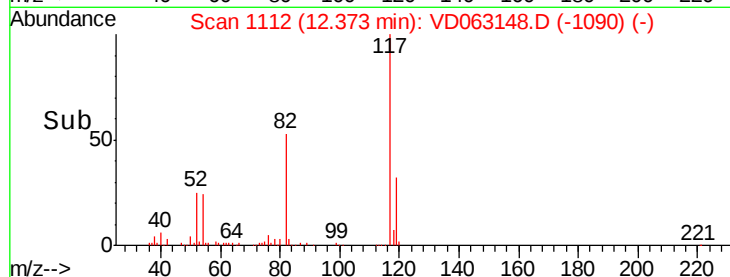
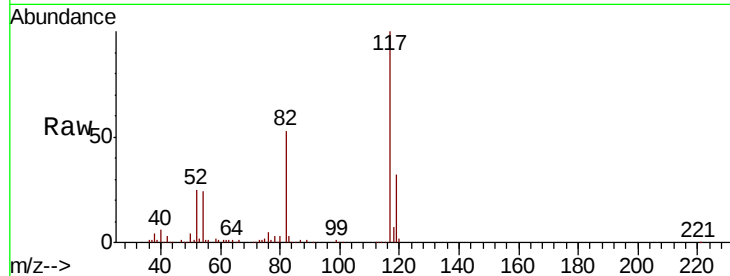




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

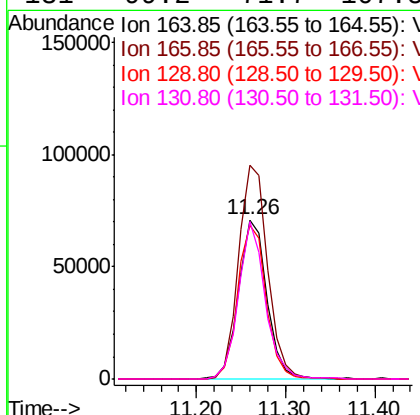
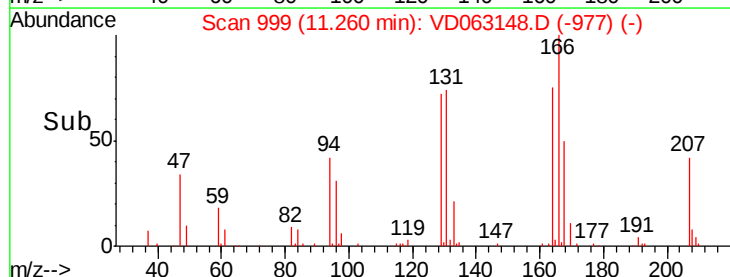
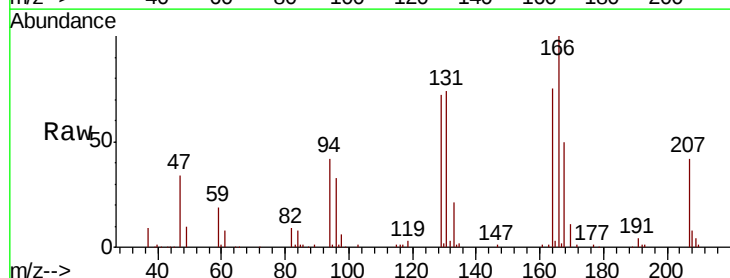
Instrument :
MSVOA_D
ClientSampleId :

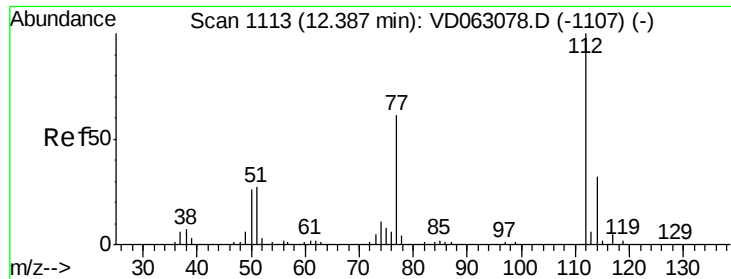
Tot Ion:117 Resp: 788610
Ion Ratio Lower Upper
117 100
82 53.2 42.3 63.5
119 32.4 25.2 37.8



#64
Tetrachloroethene
Concen: 20.529 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion:164 Resp: 157089
Ion Ratio Lower Upper
164 100
166 134.2 102.8 154.2
129 96.8 76.4 114.6
131 99.2 71.7 107.5





#65

Chlorobenzene

Concen: 20.650 ug/l

RT: 12.40 min Scan# 1115

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

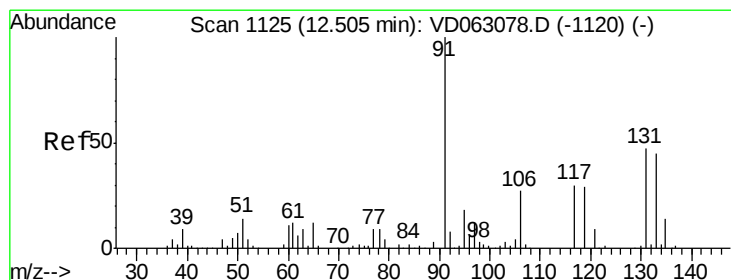
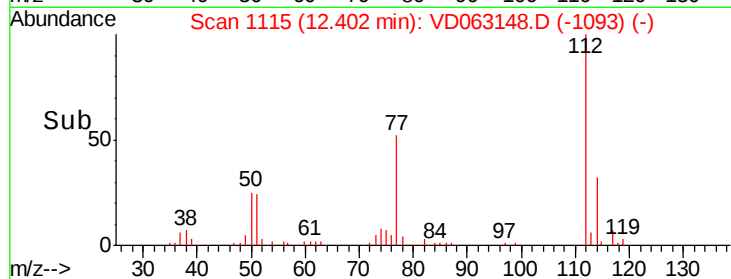
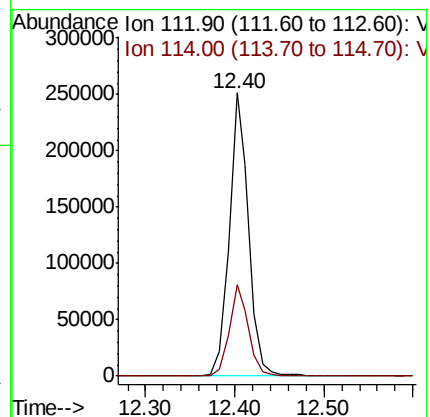
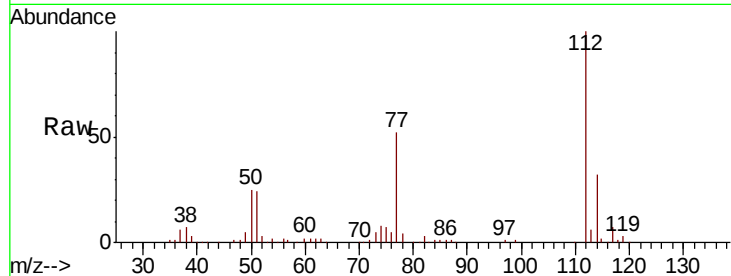
ClientSampled :

Tot Ion:112 Resp: 382812

Ion Ratio Lower Upper

112 100

114 32.1 25.9 38.9



#66

1,1,1,2-Tetrachloroethane

Concen: 20.976 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

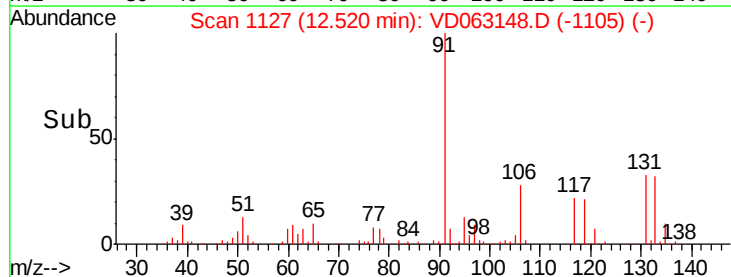
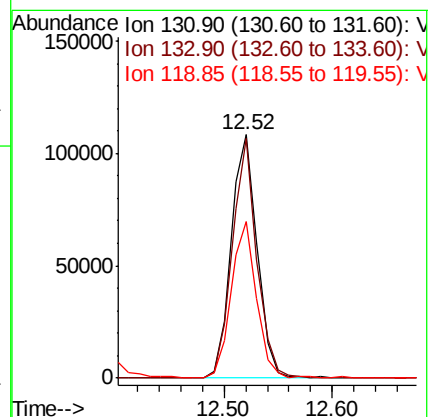
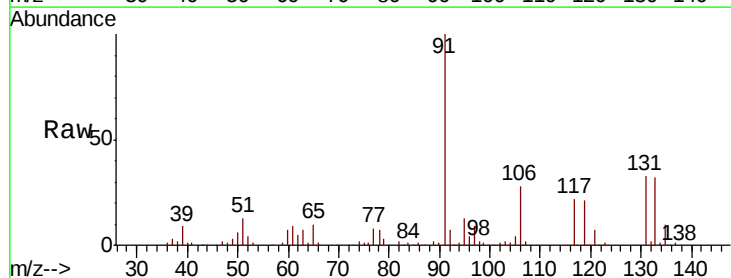
Tgt Ion:131 Resp: 180281

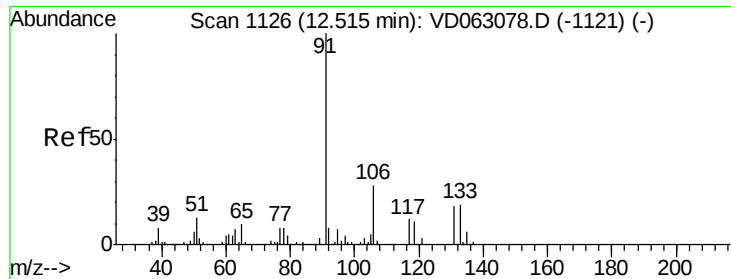
Ion Ratio Lower Upper

131 100

133 98.6 48.5 145.6

119 64.4 30.8 92.3

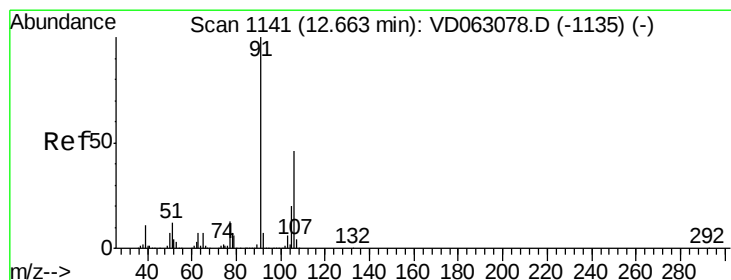
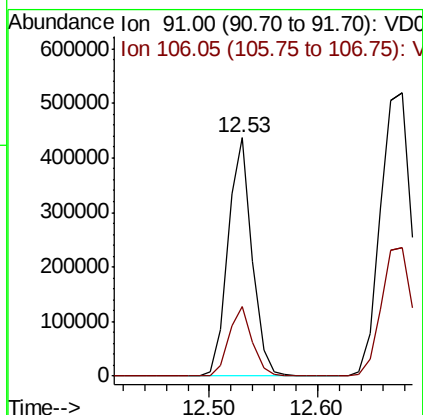
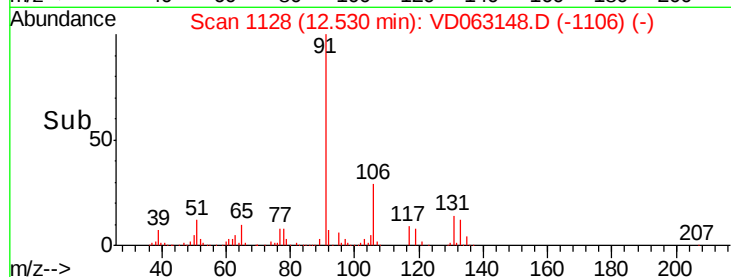
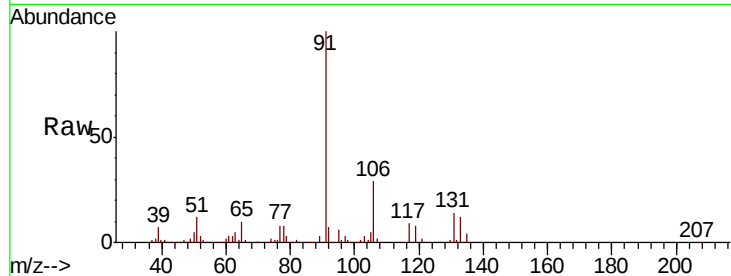




#67
Ethyl Benzene
Concen: 20.829 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

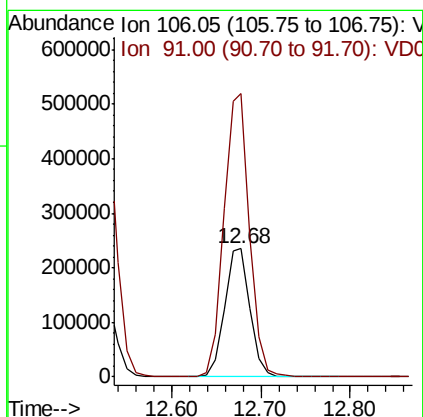
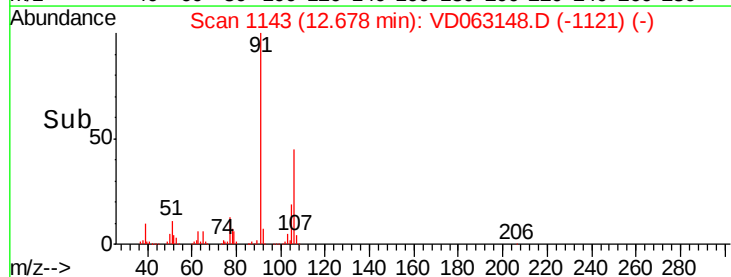
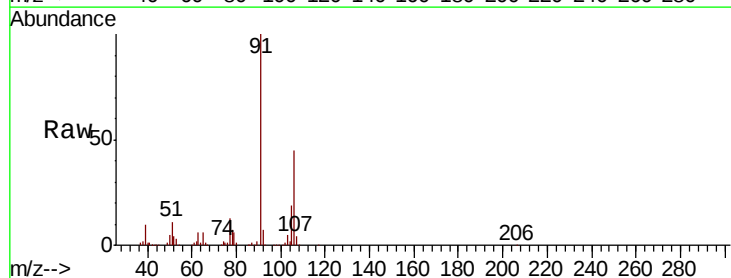
Instrument :
MSVOA_D
ClientSampleId :

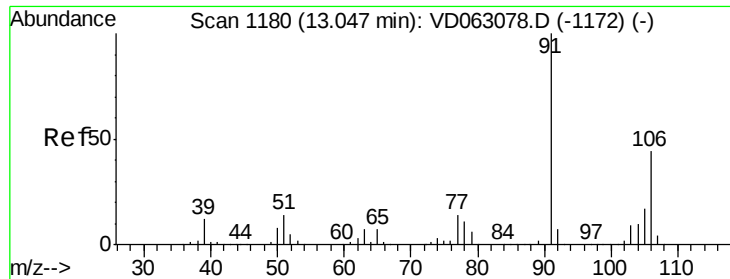
Tot Ion: 91 Resp: 670920
Ion Ratio Lower Upper
91 100
106 29.1 22.5 33.7



#68
m/p-Xylenes
Concen: 40.718 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 106 Resp: 469749
Ion Ratio Lower Upper
106 100
91 220.8 173.0 259.6

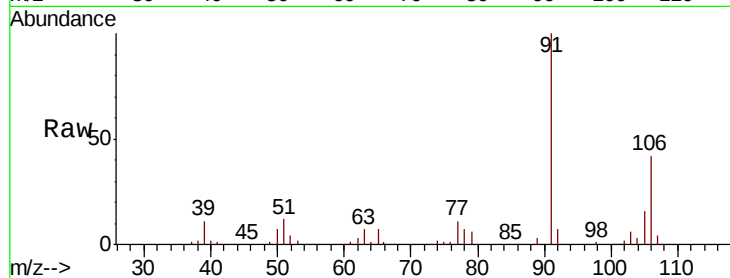




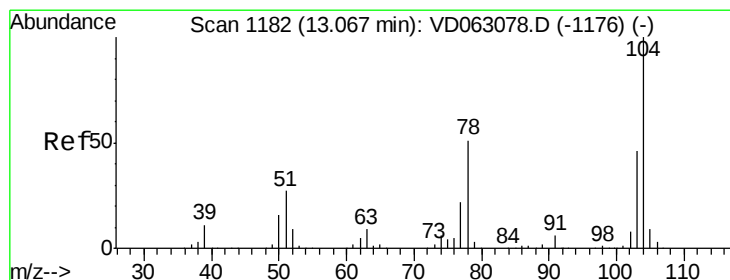
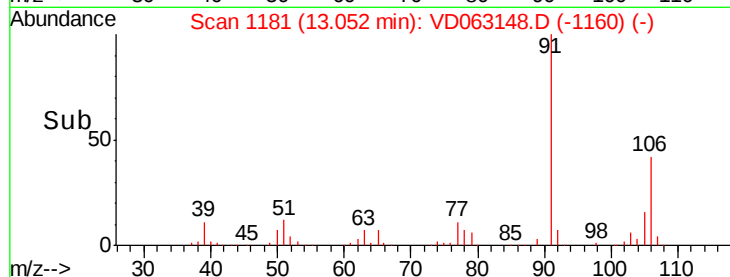
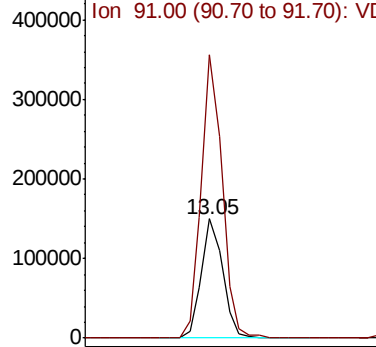
#69
o-Xylene
Concen: 20.247 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:106 Resp: 221483
Ion Ratio Lower Upper
106 100
91 237.1 114.9 344.7

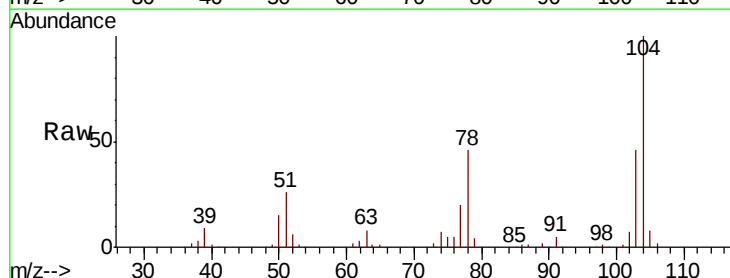


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

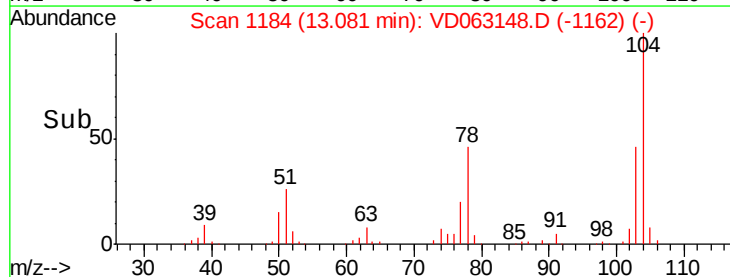
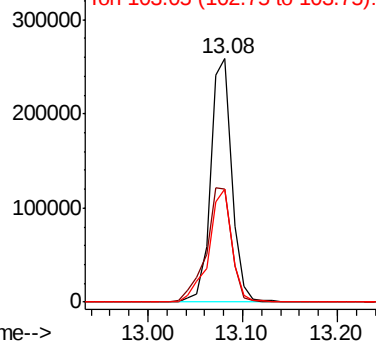


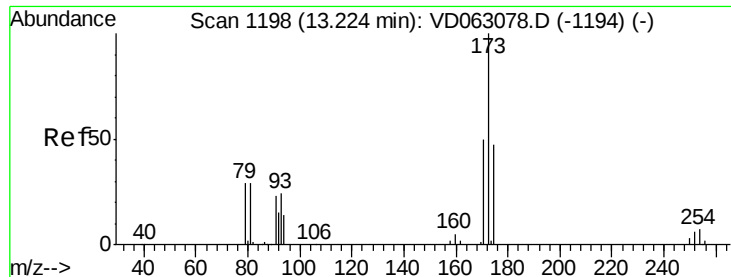
#70
Styrene
Concen: 20.926 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion:104 Resp: 400703
Ion Ratio Lower Upper
104 100
78 46.2 41.1 61.7
103 46.5 37.0 55.6



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





#71

Bromoform

Concen: 22.750 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

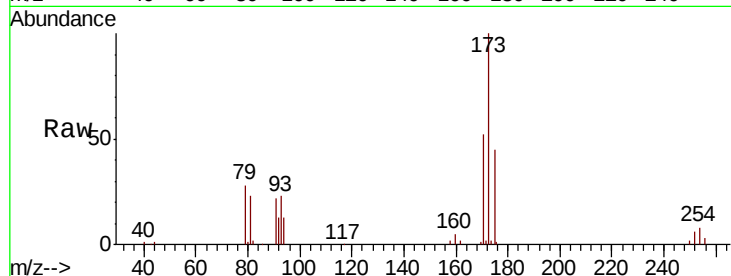
Tot Ion:173 Resp: 136892

Ion Ratio Lower Upper

173 100

175 44.9 23.4 70.2

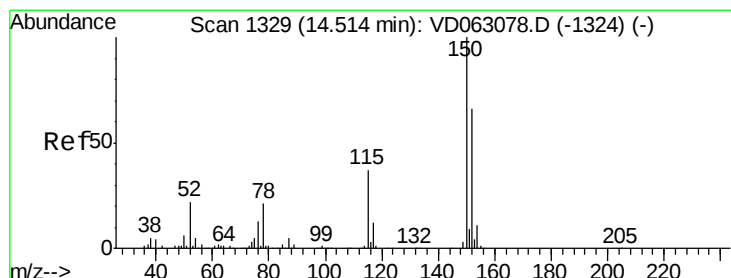
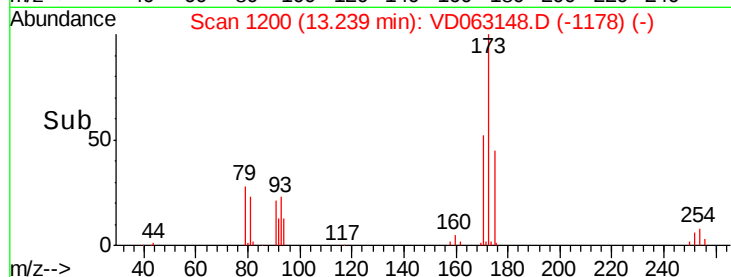
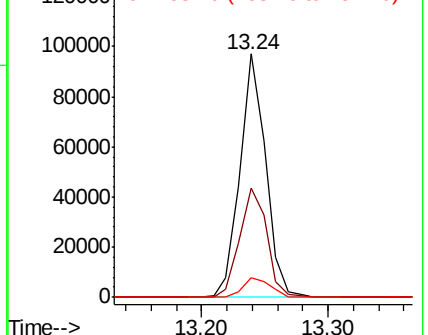
254 8.3 5.4 8.0#



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: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

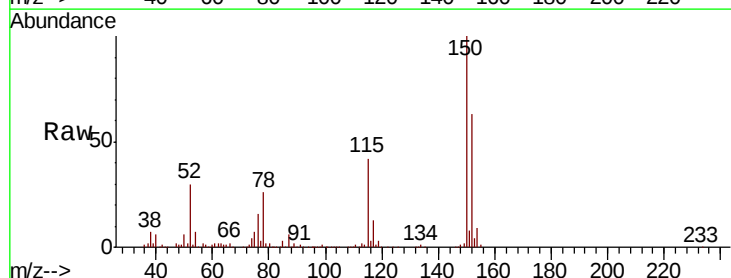
Tgt Ion:152 Resp: 488349

Ion Ratio Lower Upper

152 100

115 66.8 28.9 86.8

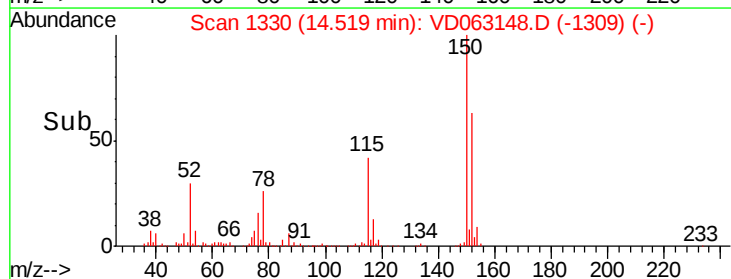
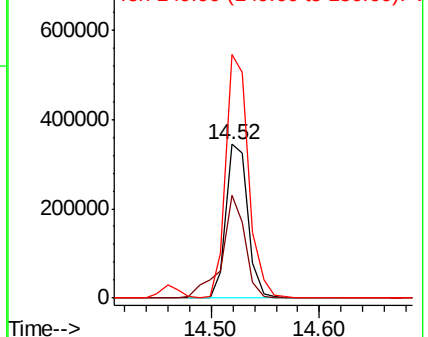
150 158.3 0.0 313.8

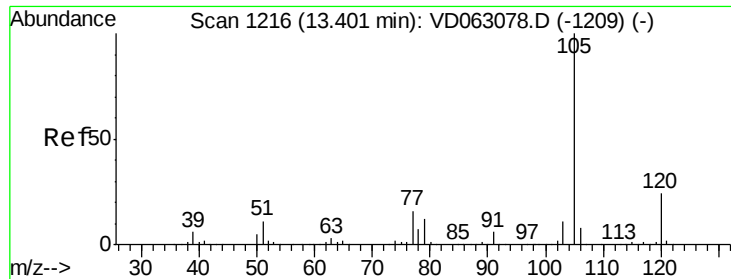


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.174 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

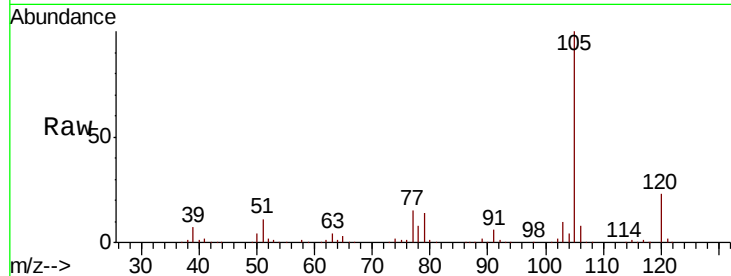
ClientSampleId :

Tot Ion:105 Resp: 723139

Ion Ratio Lower Upper

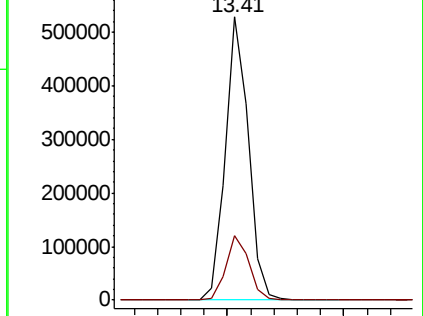
105 100

120 22.8 12.2 36.4

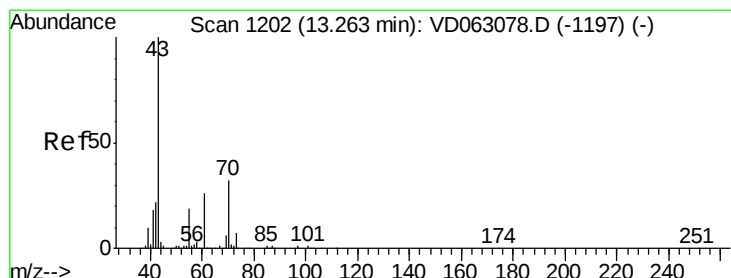
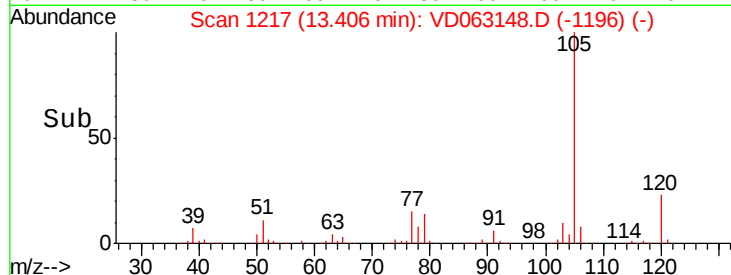


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



Time-->



#74

N-ethyl acetate

Concen: 19.341 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Tgt Ion: 43 Resp: 203424

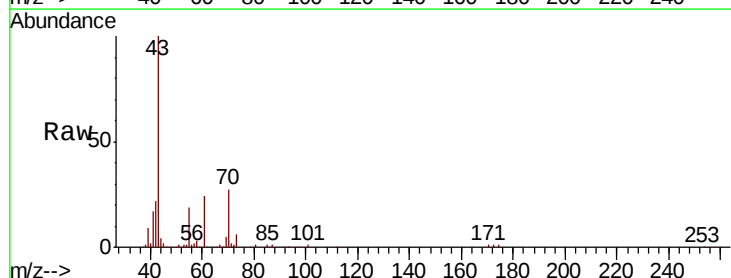
Ion Ratio Lower Upper

43 100

70 27.5 25.5 38.3

55 19.3 15.4 23.0

61 23.8 20.6 31.0

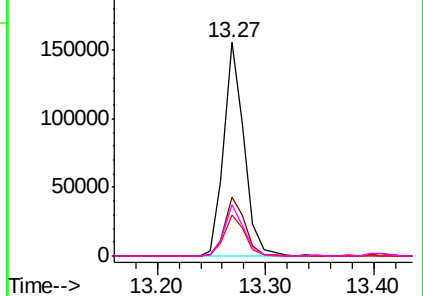


Abundance Ion 42.95 (42.65 to 43.65): VDC

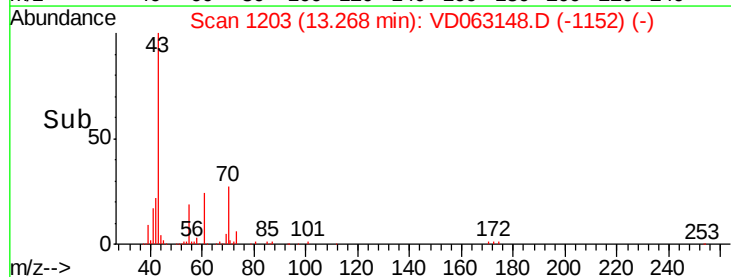
Ion 70.00 (69.70 to 70.70): VDC

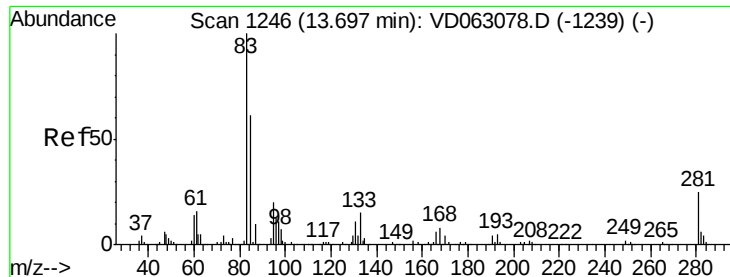
Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 19.446 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

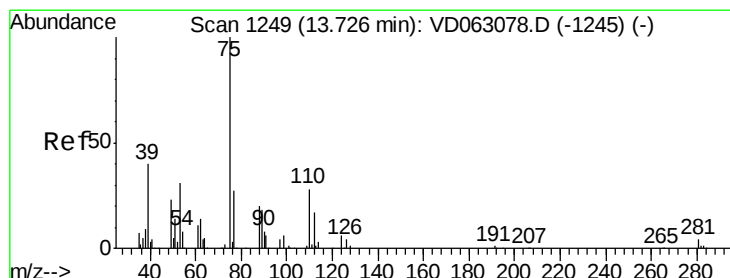
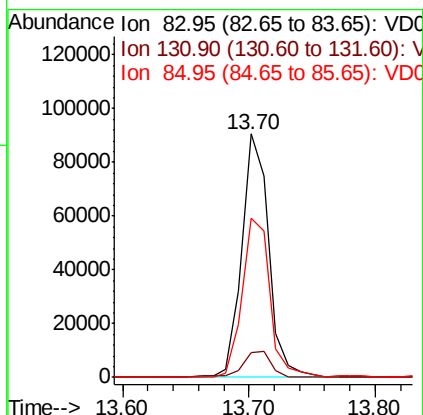
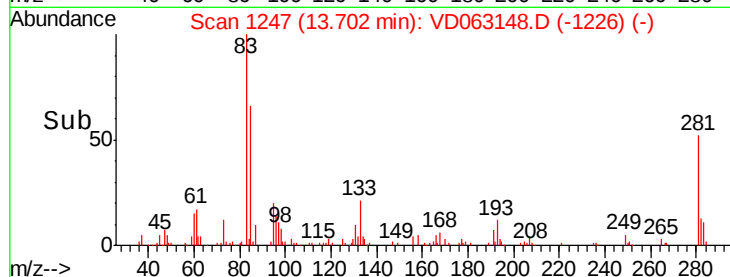
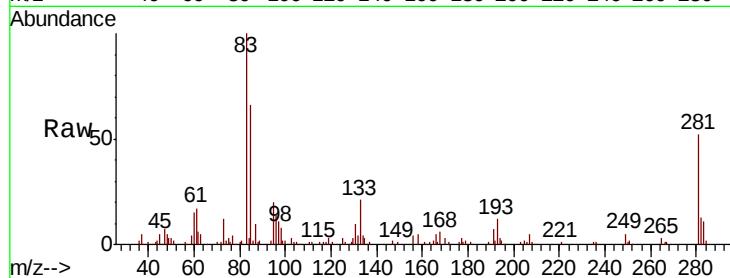
Tot Ion: 83 Resp: 133435

Ion Ratio Lower Upper

83 100

131 9.9 5.5 16.7

85 65.6 30.7 92.1



#76

1,2,3-Trichloropropane

Concen: 20.549 ug/l

RT: 13.74 min Scan# 1251

Delta R.T. 0.01 min

Lab File: VD063148.D

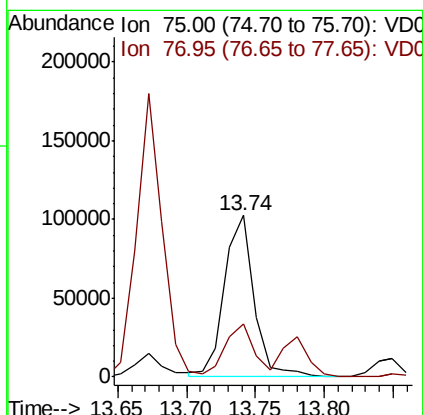
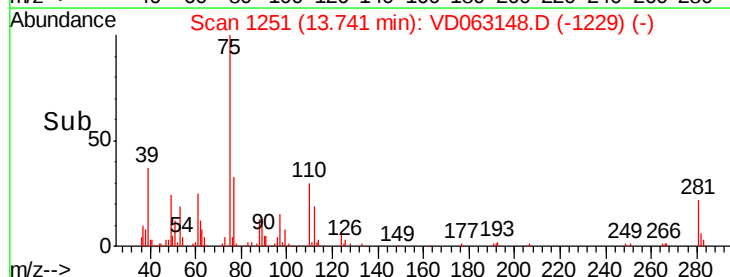
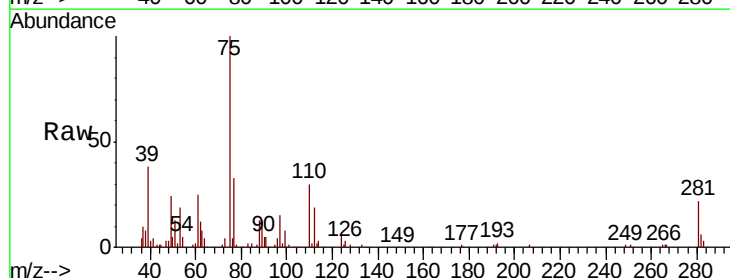
Acq: 19 Jul 2019 12:32

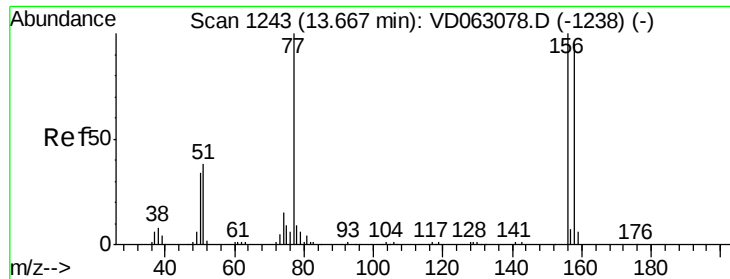
Tgt Ion: 75 Resp: 154372

Ion Ratio Lower Upper

75 100

77 32.8 16.3 48.8

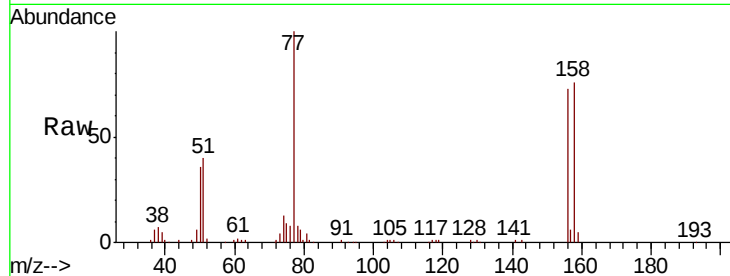




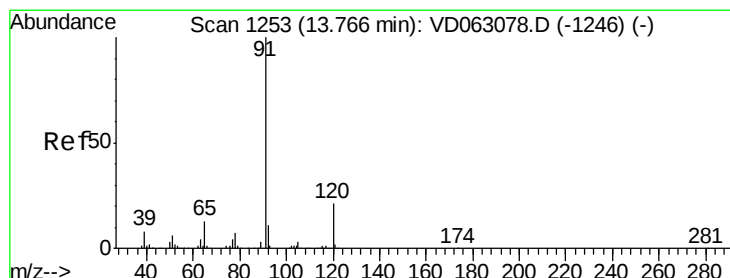
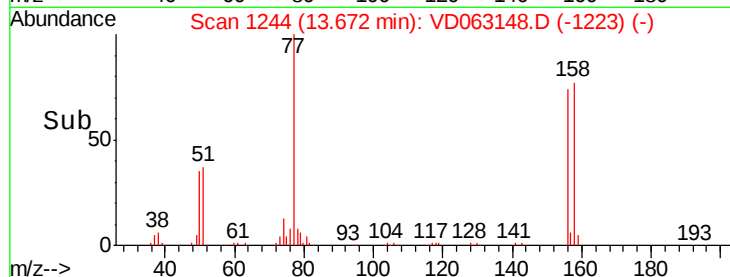
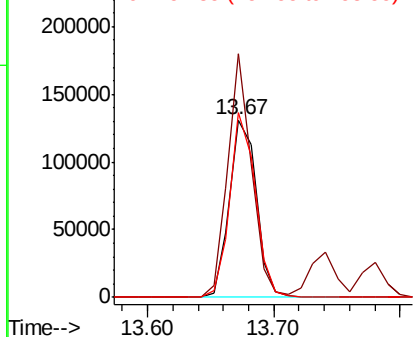
#77
Bromobenzene
Concen: 18.059 ug/l
RT: 13.67 min Scan# 1244
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:156 Resp: 193140
Ion Ratio Lower Upper
156 100
77 137.3 50.2 150.7
158 104.0 47.6 142.9

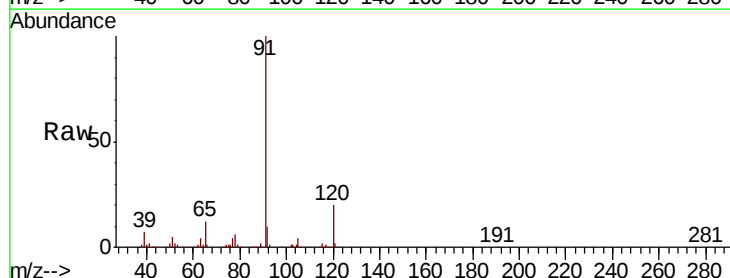


Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): VDC
Ion 157.85 (157.55 to 158.55): V

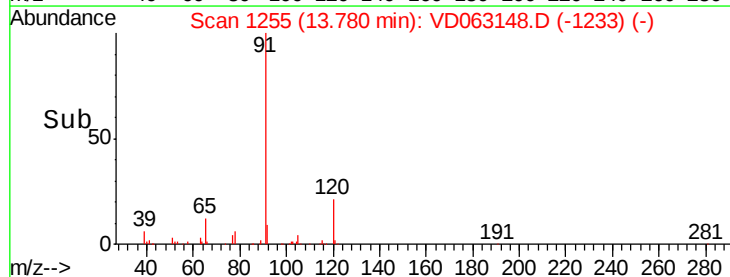
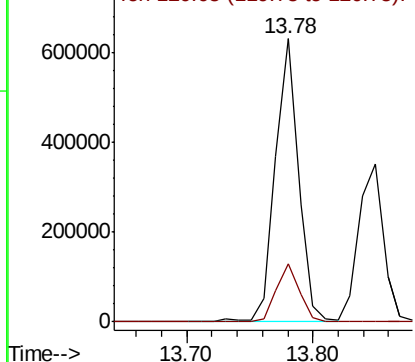


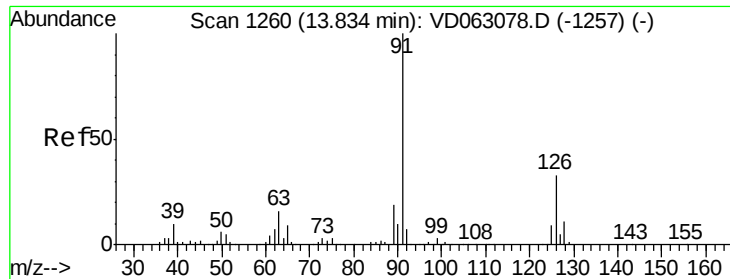
#78
n-propylbenzene
Concen: 18.741 ug/l
RT: 13.78 min Scan# 1255
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 91 Resp: 813374
Ion Ratio Lower Upper
91 100
120 20.5 10.5 31.6



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 120.05 (119.75 to 120.75): V

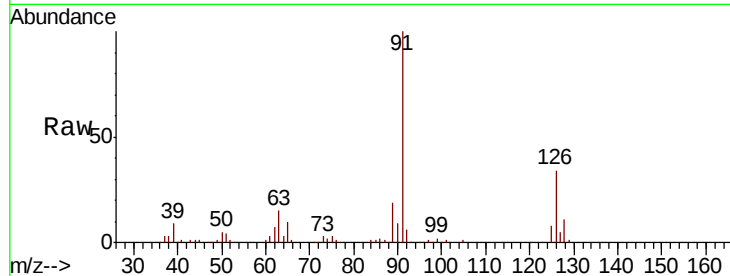




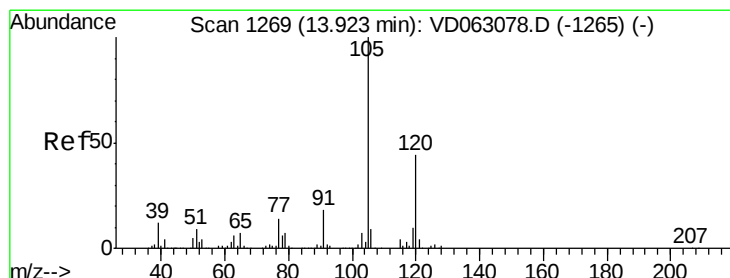
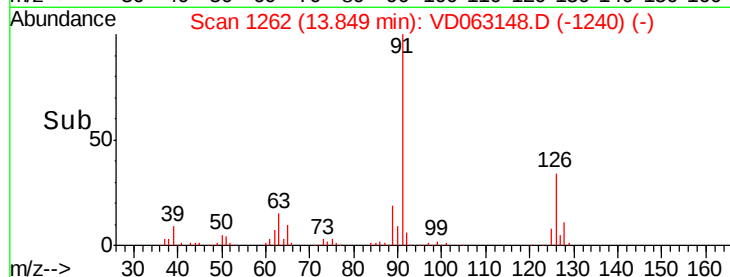
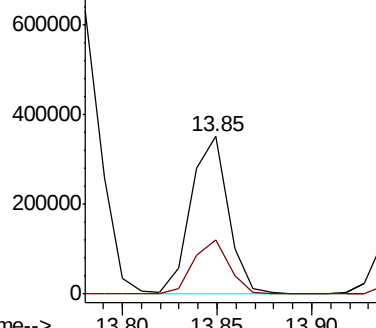
#79
 2-Chlorotoluene
 Concen: 18.108 ug/l
 RT: 13.85 min Scan# 1262
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 91 Resp: 475180
 Ion Ratio Lower Upper
 91 100
 126 34.3 16.4 49.2

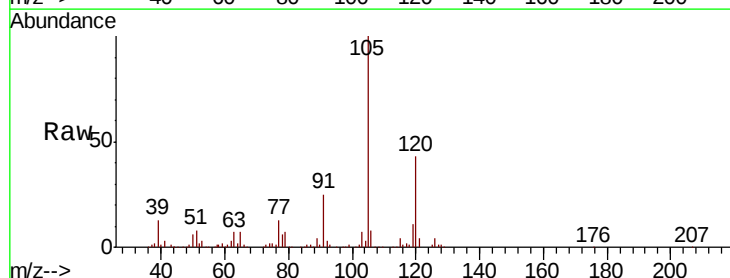


Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 125.95 (125.65 to 126.65): V

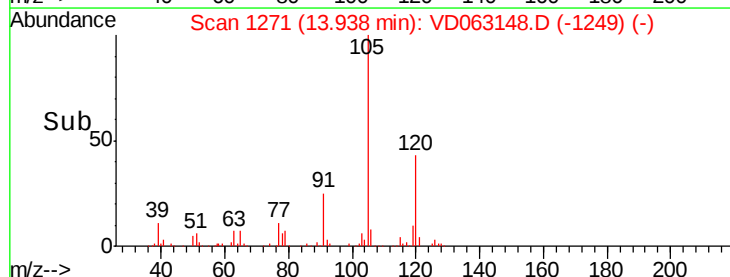
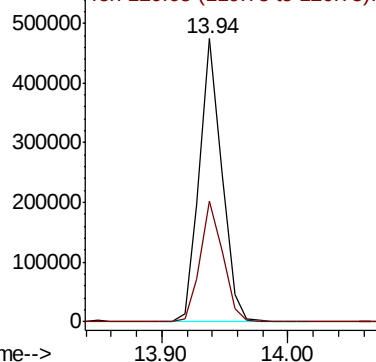


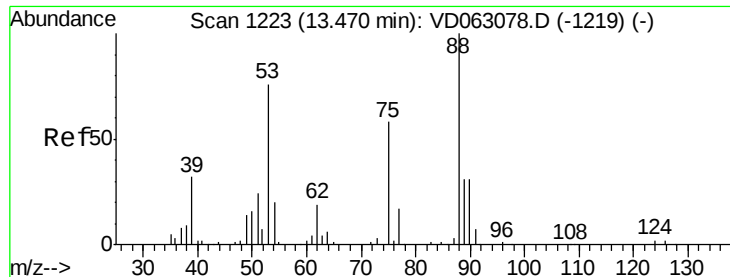
#80
 1,3,5-Trimethylbenzene
 Concen: 17.749 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion:105 Resp: 583400
 Ion Ratio Lower Upper
 105 100
 120 42.7 21.8 65.4



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





#81

trans-1,4-Dichloro-2-butene

Concen: 18.757 ug/l

RT: 13.48 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

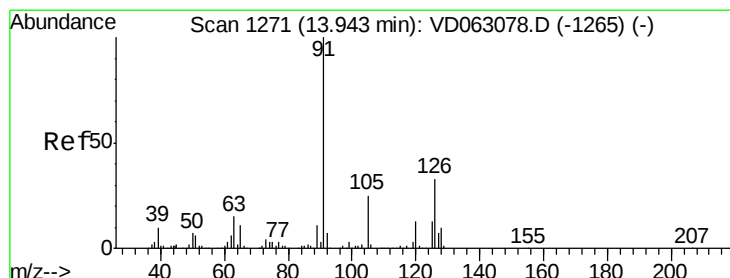
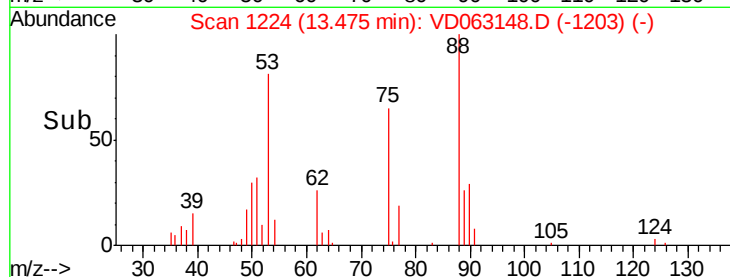
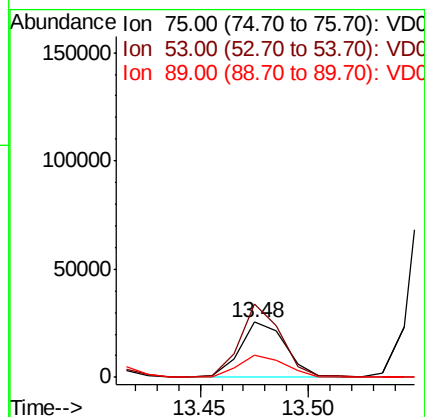
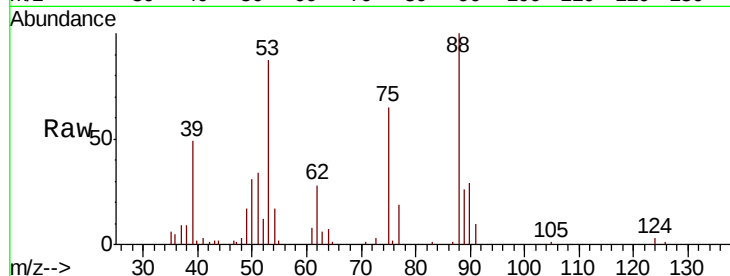
Tot Ion: 75 Resp: 37106

Ion Ratio Lower Upper

75 100

53 132.2 104.4 156.6

89 39.5 43.1 64.7#



#82

4-Chlorotoluene

Concen: 18.214 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VD063148.D

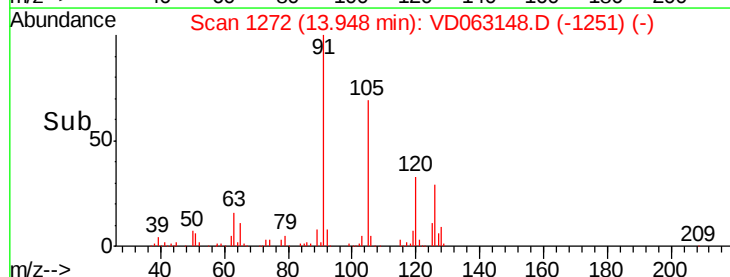
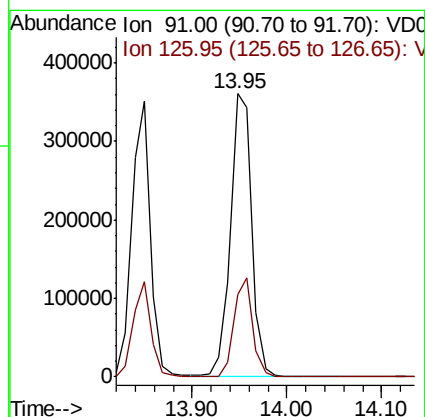
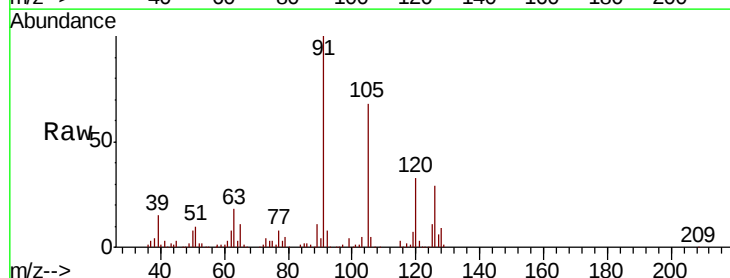
Acq: 19 Jul 2019 12:32

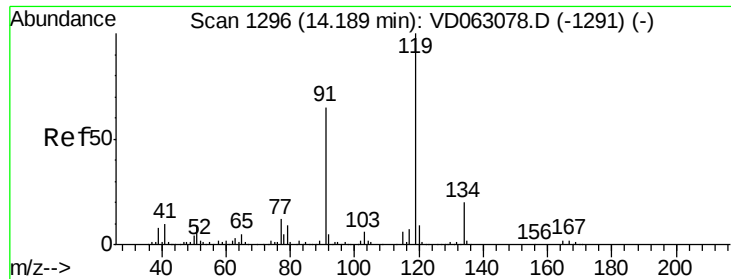
Tgt Ion: 91 Resp: 558117

Ion Ratio Lower Upper

91 100

126 29.0 16.7 50.1

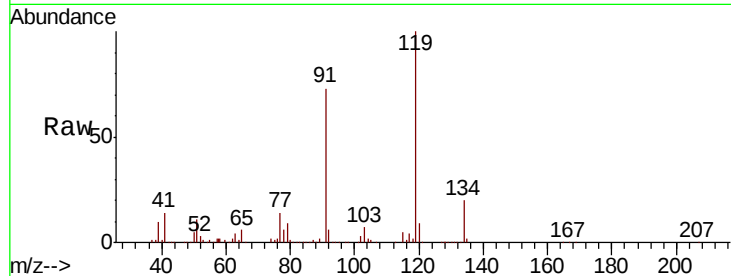




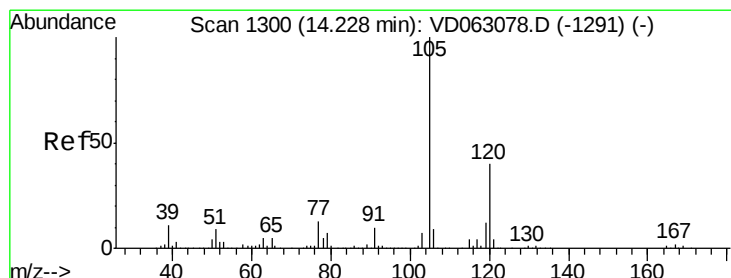
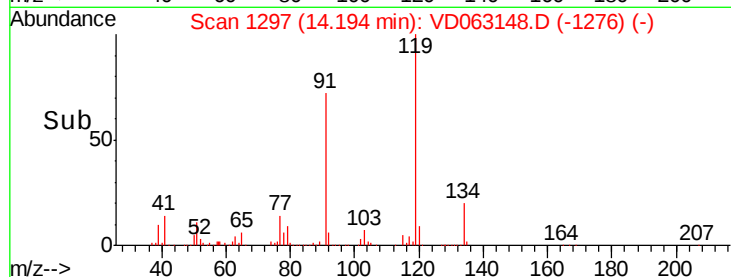
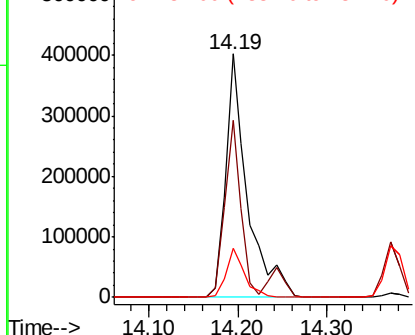
#83
tert-Butylbenzene
Concen: 18.490 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:119 Resp: 687200
Ion Ratio Lower Upper
119 100
91 72.6 32.4 97.2
134 20.1 10.2 30.6

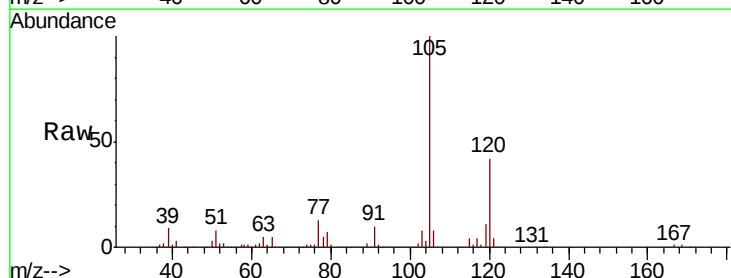


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

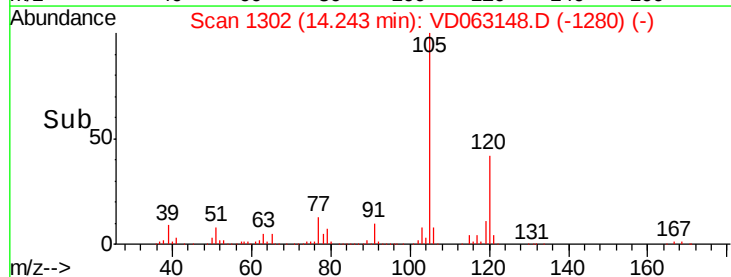
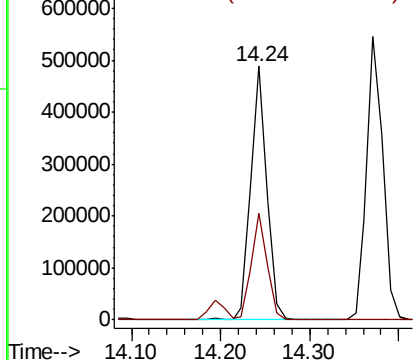


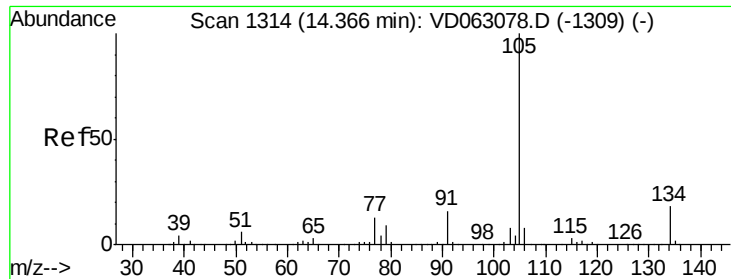
#84
1,2,4-Trimethylbenzene
Concen: 18.552 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion:105 Resp: 607924
Ion Ratio Lower Upper
105 100
120 42.3 20.2 60.6



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

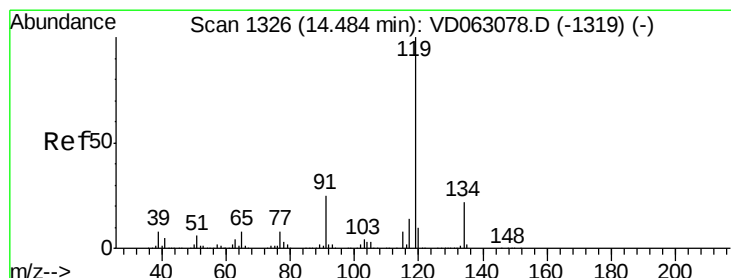
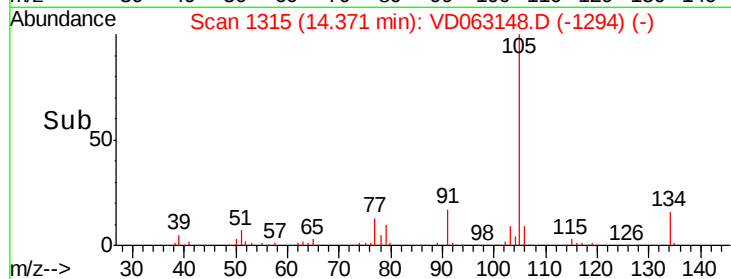
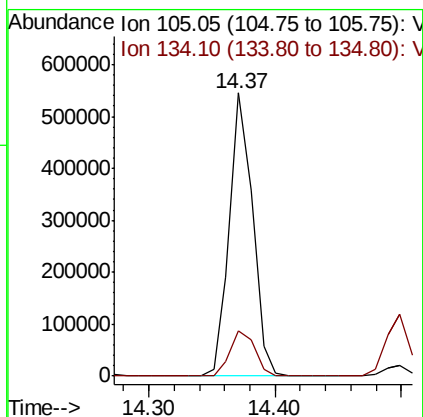
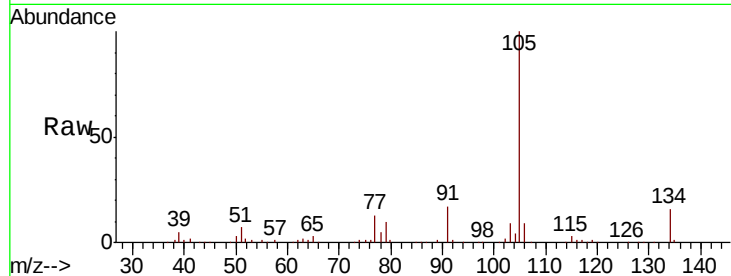




#85
 sec-Butylbenzene
 Concen: 17.573 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

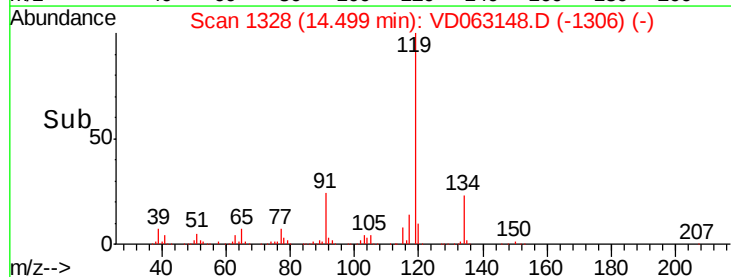
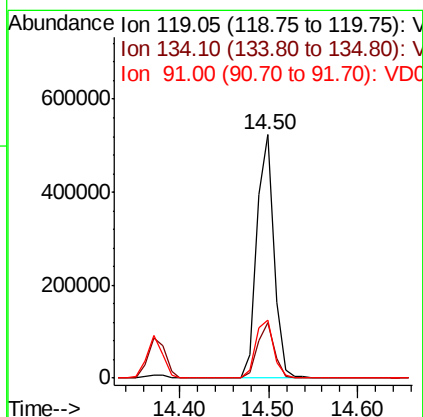
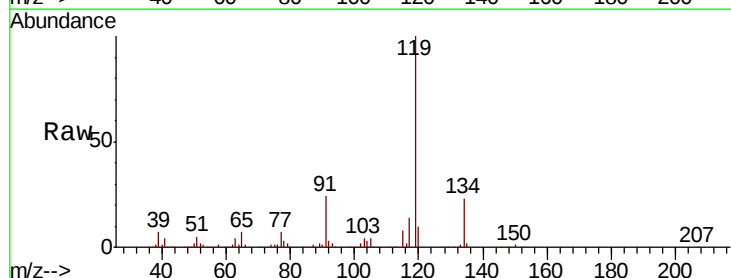
Instrument :
 MSVOA_D
 ClientSampleId :

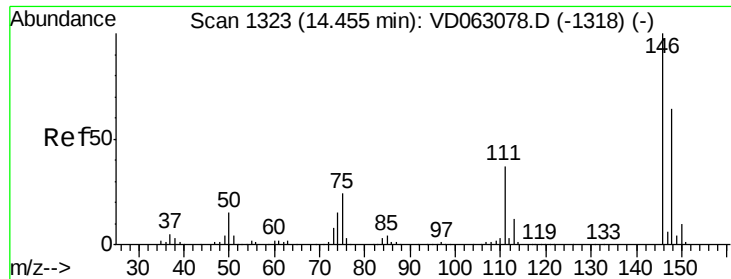
Tot Ion:105 Resp: 693935
 Ion Ratio Lower Upper
 105 100
 134 15.8 8.9 26.8



#86
 p-Isopropyltoluene
 Concen: 18.698 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion:119 Resp: 688777
 Ion Ratio Lower Upper
 119 100
 134 22.8 10.8 32.4
 91 24.0 12.5 37.5

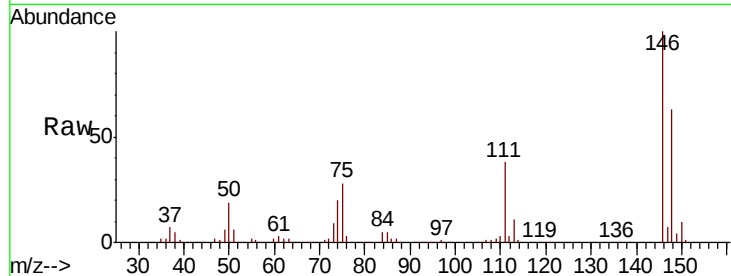




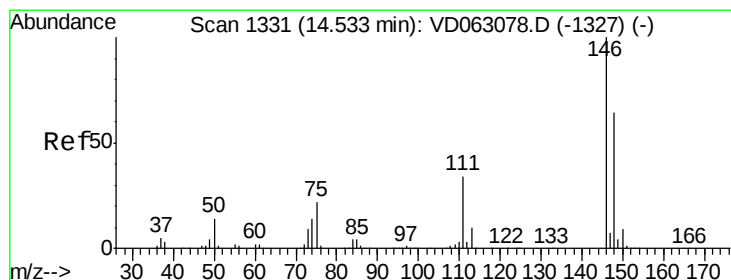
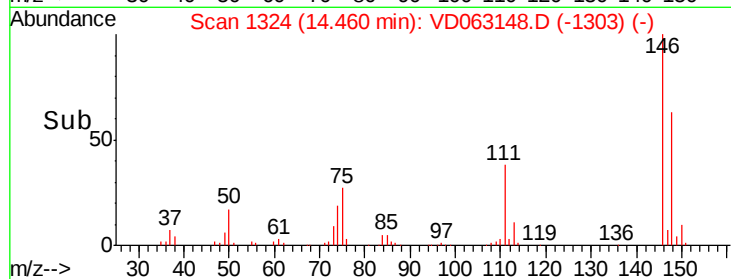
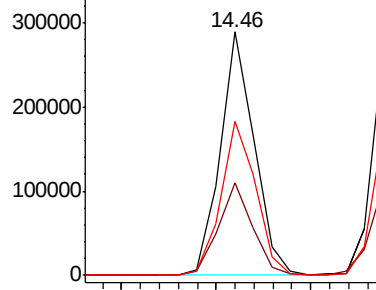
#87
 1,3-Dichlorobenzene
 Concen: 18.778 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:146 Resp: 358653
 Ion Ratio Lower Upper
 146 100
 111 38.0 18.6 55.6
 148 63.3 32.0 96.0

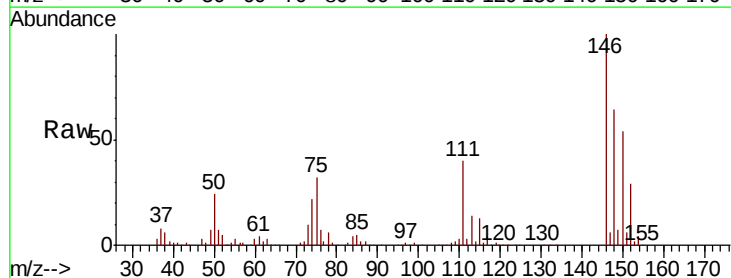


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

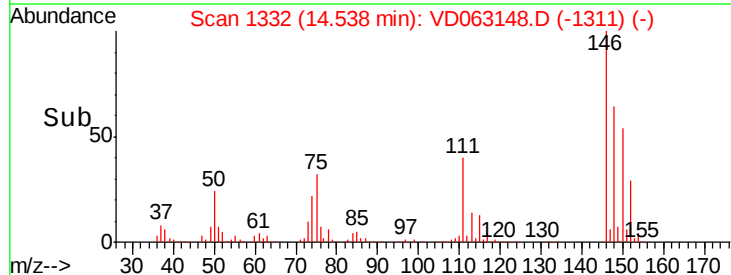
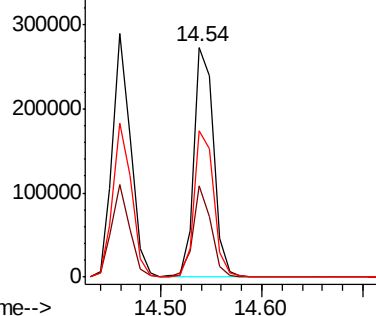


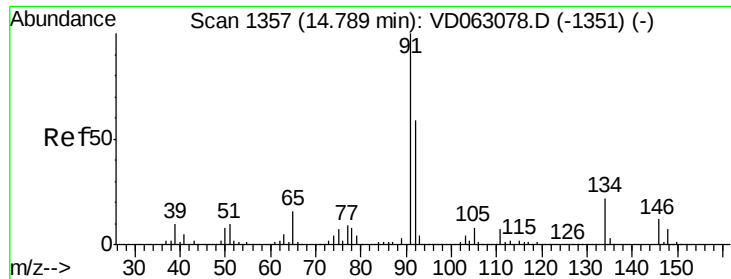
#88
 1,4-Dichlorobenzene
 Concen: 20.267 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion:146 Resp: 371094
 Ion Ratio Lower Upper
 146 100
 111 40.0 17.0 51.0
 148 63.9 32.0 96.2



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

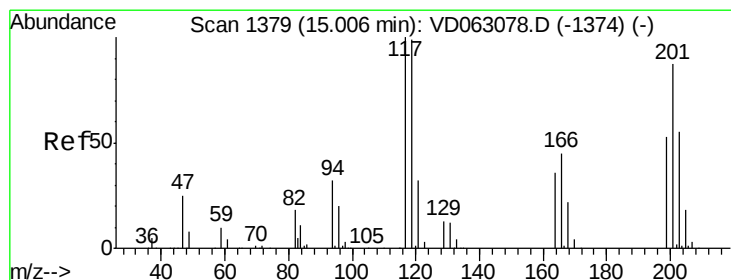
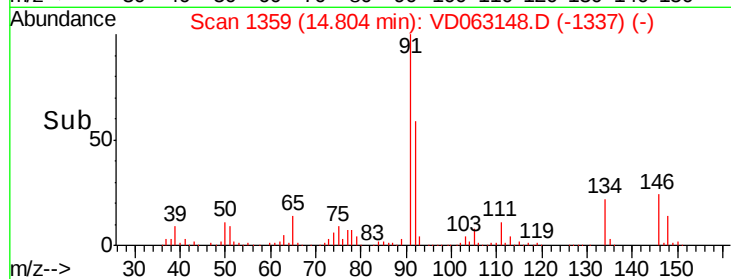
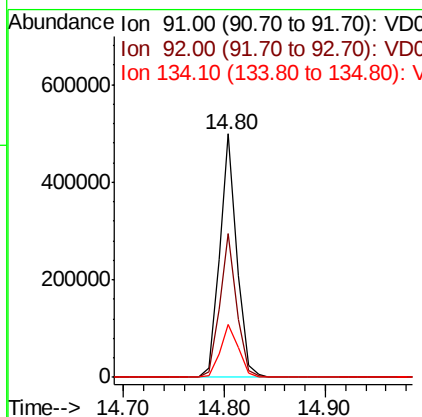
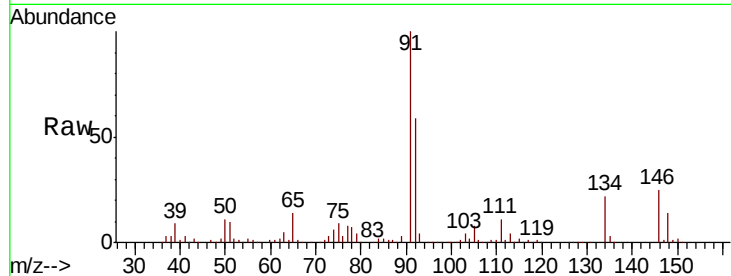




#89
n-Butylbenzene
Concen: 17.475 ug/l
RT: 14.80 min Scan# 1359
Delta R.T. 0.01 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

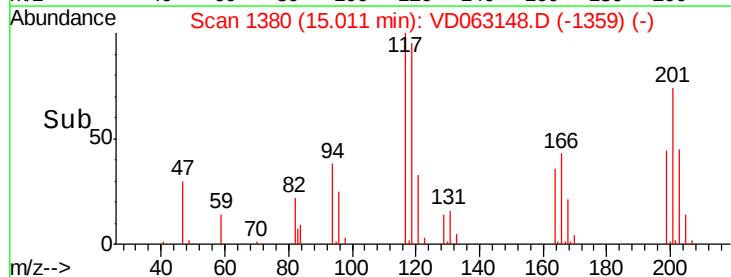
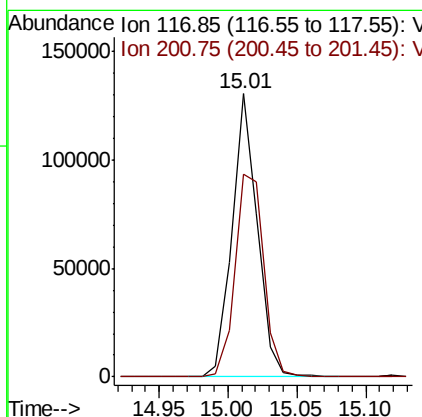
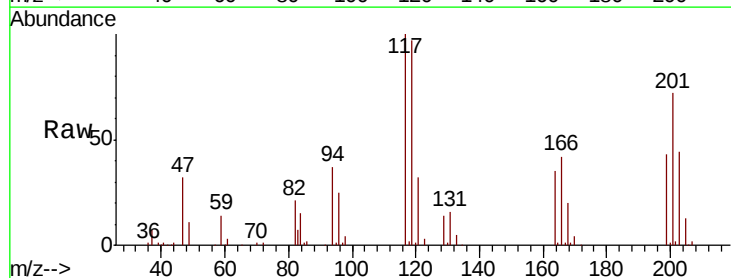
Instrument :
MSVOA_D
ClientSampleId :

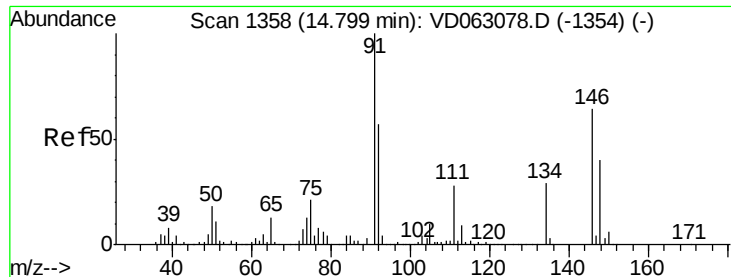
Tot Ion: 91 Resp: 593325
Ion Ratio Lower Upper
91 100
92 59.3 29.4 88.3
134 21.8 11.3 33.8



#90
Hexachloroethane
Concen: 16.794 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD063148.D
Acq: 19 Jul 2019 12:32

Tgt Ion: 117 Resp: 165383
Ion Ratio Lower Upper
117 100
201 71.8 43.4 130.1

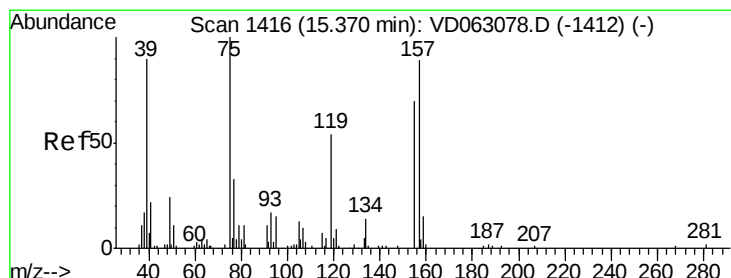
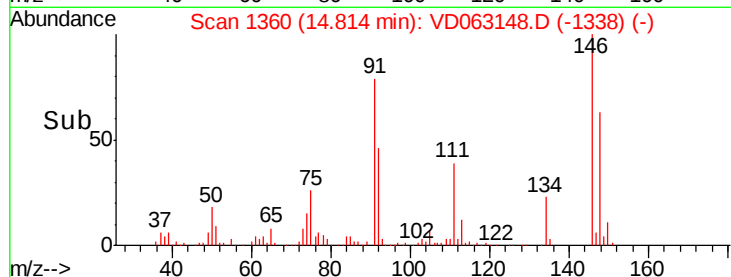
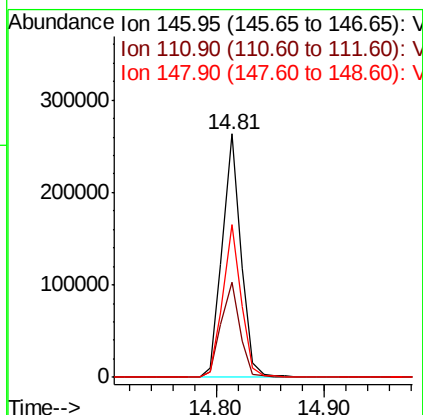
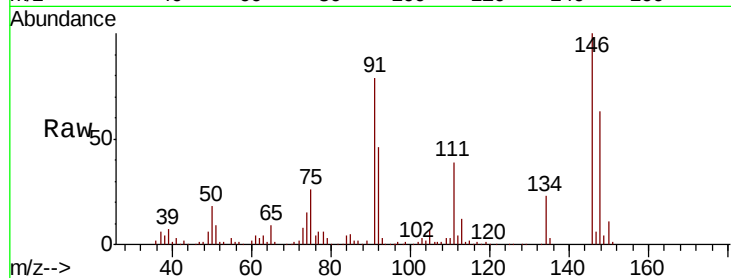




#91
 1,2-Dichlorobenzene
 Concen: 18.683 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

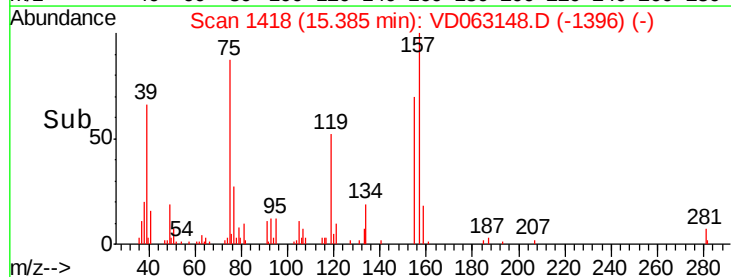
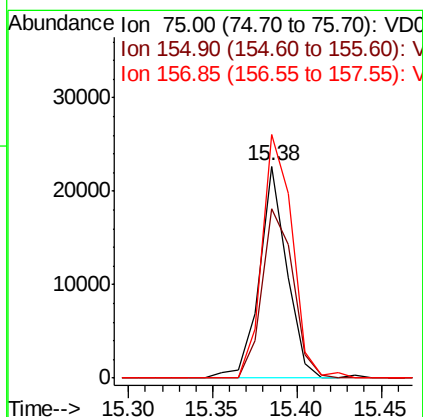
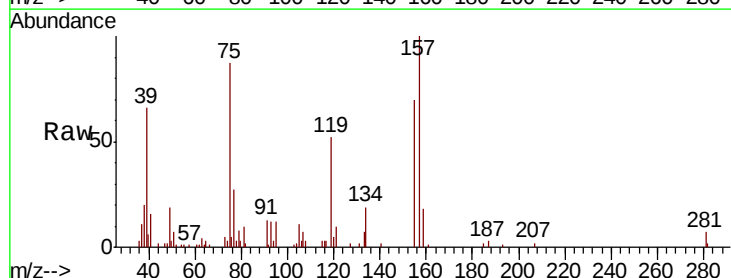
Instrument :
 MSVOA_D
 ClientSampleId :

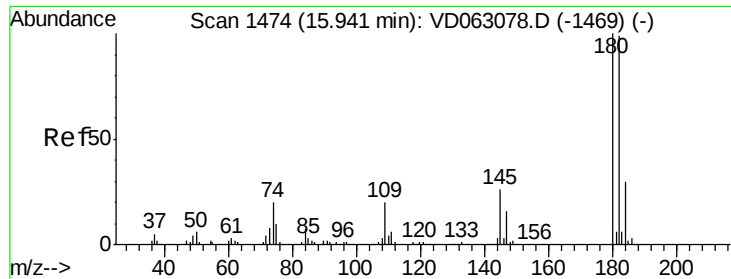
Tot Ion:146 Resp: 317751
 Ion Ratio Lower Upper
 146 100
 111 39.2 21.9 65.5
 148 62.6 31.5 94.5



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.428 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion: 75 Resp: 25553
 Ion Ratio Lower Upper
 75 100
 155 80.1 34.8 104.3
 157 115.0 44.7 134.1

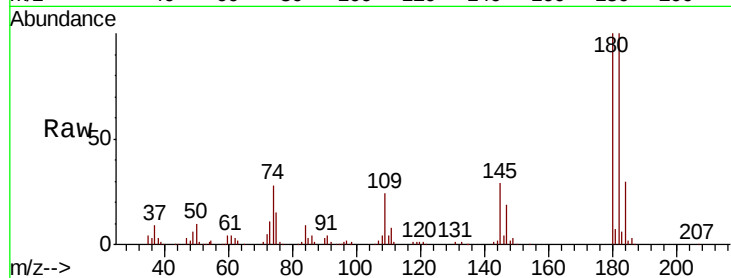




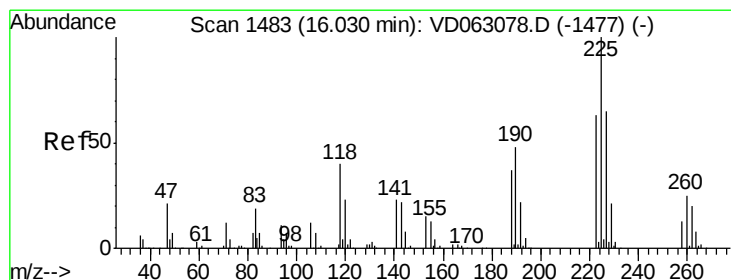
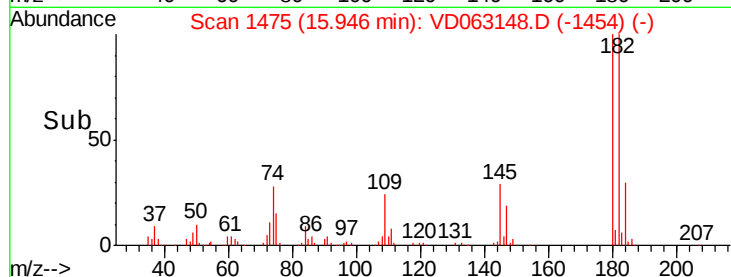
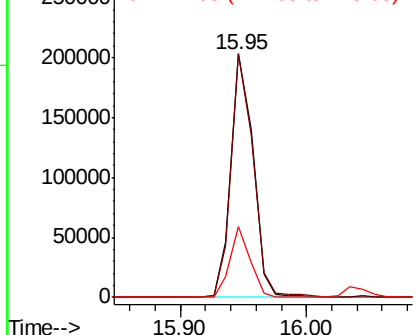
#93
 1,2,4-Trichlorobenzene
 Concen: 19.376 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Instrument :
 MSVOA_D
 ClientSampleID :

Tot Ion:180 Resp: 247584
 Ion Ratio Lower Upper
 180 100
 182 100.0 49.5 148.3
 145 29.0 12.8 38.4

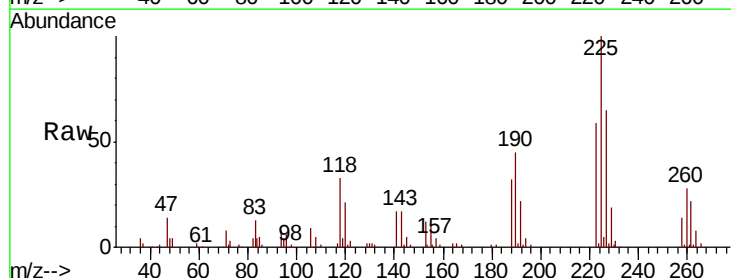


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

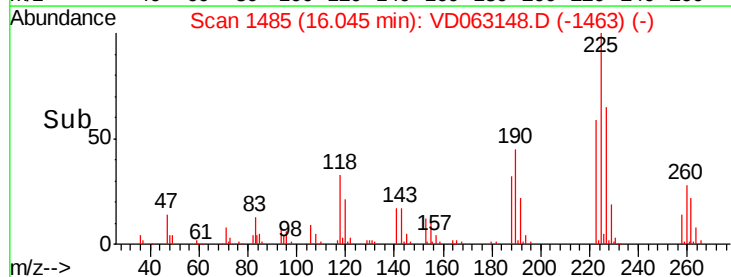
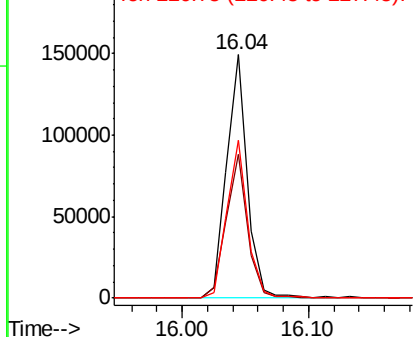


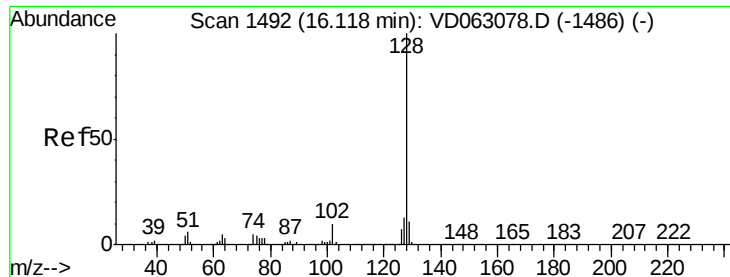
#94
 Hexachlorobutadiene
 Concen: 17.978 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD063148.D
 Acq: 19 Jul 2019 12:32

Tgt Ion:225 Resp: 169315
 Ion Ratio Lower Upper
 225 100
 223 58.8 31.4 94.2
 227 64.7 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: 19.508 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

Instrument :

MSVOA_D

ClientSampleId :

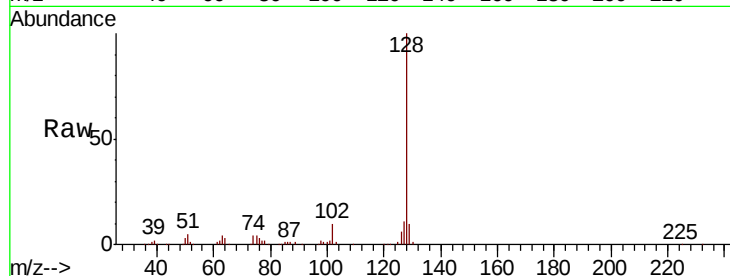
Tot Ion:128 Resp: 364620

Ion Ratio Lower Upper

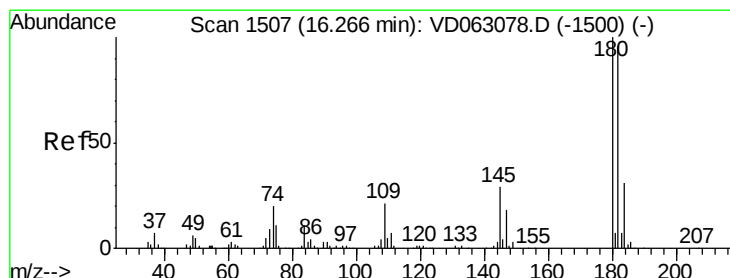
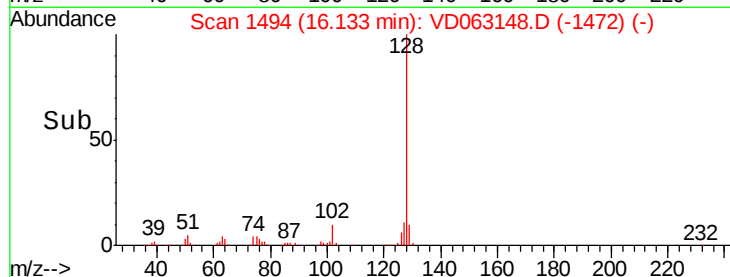
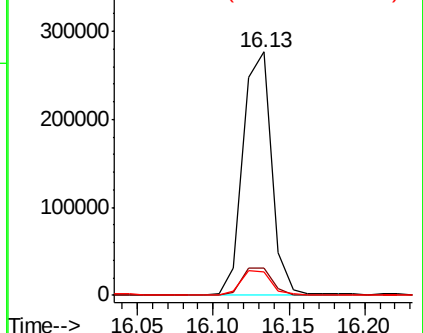
128 100

127 11.3 10.7 16.1

129 9.6 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: 19.095 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VD063148.D

Acq: 19 Jul 2019 12:32

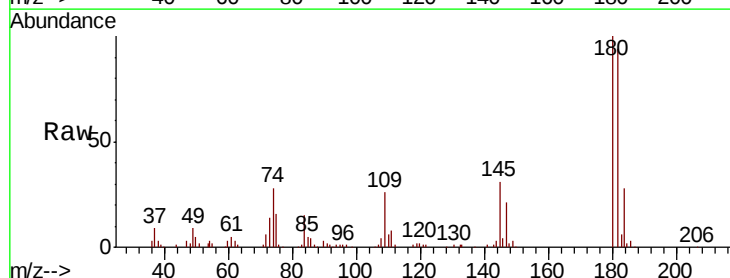
Tgt Ion:180 Resp: 196275

Ion Ratio Lower Upper

180 100

182 94.0 47.9 143.6

145 31.0 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

