

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD070319\
 Data File : VD063019.D
 Acq On : 3 Jul 2019 12:25
 Operator : VA/AP
 Sample : VD0703SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

Quant Time: Jul 04 00:45:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	938897	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.22	114	1239492	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.37	117	1064437	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	549041	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	505925	49.57	ug/l	0.00
Spiked Amount			Recovery	=	99.14%	
35) Dibromofluoromethane	6.93	113	525347	50.27	ug/l	0.00
Spiked Amount			Recovery	=	100.54%	
50) Toluene-d8	10.41	98	1164919	51.21	ug/l	0.00
Spiked Amount			Recovery	=	102.42%	
62) 4-Bromofluorobenzene	13.55	95	517791	50.06	ug/l	0.00
Spiked Amount			Recovery	=	100.12%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	232198	19.111	ug/l	100
3) Chloromethane	1.75	50	178961	19.586	ug/l	99
4) Vinyl Chloride	1.85	62	177694	19.614	ug/l	99
5) Bromomethane	2.15	94	70702	16.664	ug/l	86
6) Chloroethane	2.26	64	85507	20.847	ug/l	99
7) Trichlorofluoromethane	2.53	101	345639	18.852	ug/l	100
8) Diethyl Ether	2.87	74	45770	19.647	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	3.15	101	215461	21.692	ug/l	97
10) Methyl Iodide	3.30	142	245689	18.749	ug/l	99
11) Tert butyl alcohol	4.10	59	49964	107.493	ug/l #	91
12) 1,1-Dichloroethene	3.12	96	152413	20.454	ug/l	98
13) Acrolein	3.04	56	31447	66.271	ug/l	87
14) Allyl chloride	3.61	41	231970	21.069	ug/l	95
15) Acrylonitrile	4.20	53	115261	105.532	ug/l	92
16) Acetone	3.23	43	203868	94.144	ug/l	98
17) Carbon Disulfide	3.37	76	428702	18.002	ug/l	96
18) Methyl Acetate	3.65	43	87986	28.559	ug/l	97
19) Methyl tert-butyl Ether	4.24	73	342505	21.233	ug/l	99
20) Methylene Chloride	3.82	84	158482	20.362	ug/l	94
21) trans-1,2-Dichloroethene	4.21	96	162029	20.422	ug/l	93
22) Diisopropyl ether	5.13	45	469569	20.971	ug/l	98
23) Vinyl Acetate	5.06	43	1355678	96.758	ug/l	99
24) 1,1-Dichloroethane	4.99	63	298002	20.441	ug/l	98
25) 2-Butanone	6.07	43	197072	103.245	ug/l #	90
26) 2,2-Dichloropropane	6.03	77	298516	19.319	ug/l	96
27) cis-1,2-Dichloroethene	6.04	96	167212	19.929	ug/l	93
28) Bromochloromethane	6.44	49	111545	21.725	ug/l	92
29) Tetrahydrofuran	6.48	42	96022	106.323	ug/l	98
30) Chloroform	6.66	83	372272	20.997	ug/l	98
31) Cyclohexane	6.95	56	180491	18.833	ug/l	96
32) 1,1,1-Trichloroethane	6.87	97	363228	19.670	ug/l	93
36) 1,1-Dichloropropene	7.14	75	238653	20.339	ug/l	100
37) Ethyl Acetate	6.19	43	100549	19.733	ug/l #	94
38) Carbon Tetrachloride	7.12	117	359137	20.351	ug/l	96

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
 Quant Title : SW846 8260
 QLast Update : Thu Jun 20 01:50:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.87	83	210117	20.344	ug/l	96
40) Benzene	7.46	78	511123	21.701	ug/l	92
41) Methacrylonitrile	6.45	41	129702	20.961	ug/l	96
42) 1,2-Dichloroethane	7.58	62	269369	20.965	ug/l	98
43) Isopropyl Acetate	9.24	43	147982	24.056	ug/l #	95
44) Trichloroethene	8.54	130	199943	21.654	ug/l	92
45) 1,2-Dichloropropane	8.95	63	116630	19.914	ug/l	99
46) Dibromomethane	9.06	93	108346	21.536	ug/l	94
47) Bromodichloromethane	9.38	83	281113	21.515	ug/l #	96
48) Methyl methacrylate	9.12	41	86138	19.705	ug/l	90
49) 1,4-Dioxane	9.07	88	18434	506.862	ug/l #	75
51) 4-Methyl-2-Pentanone	10.30	43	486074	111.450	ug/l	100
52) Toluene	10.51	92	329615	20.819	ug/l	96
53) t-1,3-Dichloropropene	10.91	75	220705	20.638	ug/l	92
54) cis-1,3-Dichloropropene	10.04	75	236088	20.311	ug/l	95
55) 1,1,2-Trichloroethane	11.19	97	113124	20.797	ug/l	96
56) Ethyl methacrylate	11.04	69	124890	21.485	ug/l	95
57) 1,3-Dichloropropane	11.41	76	163753	19.662	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.86	63	329770	110.502	ug/l	95
59) 2-Hexanone	11.54	43	346332	111.500	ug/l	96
60) Dibromochloromethane	11.68	129	219518	21.667	ug/l	94
61) 1,2-Dibromoethane	11.81	107	136158	21.195	ug/l	99
64) Tetrachloroethene	11.26	164	171080	19.528	ug/l	98
65) Chlorobenzene	12.40	112	401282	20.313	ug/l	96
66) 1,1,1,2-Tetrachloroethane	12.52	131	179258	19.403	ug/l	87
67) Ethyl Benzene	12.53	91	722436	20.369	ug/l	99
68) m/p-Xylenes	12.67	106	474863	38.441	ug/l	96
69) o-Xylene	13.05	106	232923	20.626	ug/l	97
70) Styrene	13.07	104	409002	20.620	ug/l	98
71) Bromoform	13.24	173	121859	19.252	ug/l	94
73) Isopropylbenzene	13.41	105	713841	20.278	ug/l	96
74) N-amyl acetate	13.27	43	188071	21.999	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	130078	22.678	ug/l	98
76) 1,2,3-Trichloropropane	13.73	75	138511	21.853	ug/l	95
77) Bromobenzene	13.67	156	199226	21.040	ug/l	93
78) n-propylbenzene	13.77	91	900807	21.985	ug/l	93
79) 2-Chlorotoluene	13.84	91	506882	21.647	ug/l	100
80) 1,3,5-Trimethylbenzene	13.94	105	644215	21.786	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.47	75	34520	20.781	ug/l	99
82) 4-Chlorotoluene	13.95	91	632593	22.440	ug/l	96
83) tert-Butylbenzene	14.19	119	675260	20.487	ug/l	97
84) 1,2,4-Trimethylbenzene	14.24	105	655178	21.618	ug/l	98
85) sec-Butylbenzene	14.37	105	779945	21.772	ug/l	93
86) p-Isopropyltoluene	14.49	119	705972	21.542	ug/l	99
87) 1,3-Dichlorobenzene	14.46	146	371635	21.895	ug/l	96
88) 1,4-Dichlorobenzene	14.54	146	344613	20.214	ug/l	98
89) n-Butylbenzene	14.80	91	642013	20.931	ug/l	96
90) Hexachloroethane	15.01	117	196778	22.332	ug/l	87
91) 1,2-Dichlorobenzene	14.81	146	312325	21.507	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.38	75	25295	22.594	ug/l	76

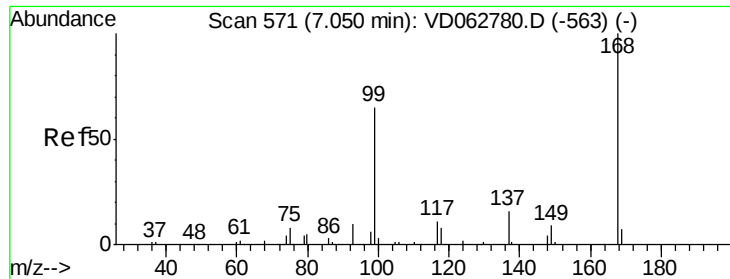
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD070319\
Data File : VD063019.D
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Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	250447	22.077	ug/l	98
94) Hexachlorobutadiene	16.04	225	191236	22.066	ug/l	96
95) Naphthalene	16.12	128	348119	21.894	ug/l	98
96) 1,2,3-Trichlorobenzene	16.27	180	193033	22.147	ug/l	95

(#) = 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. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

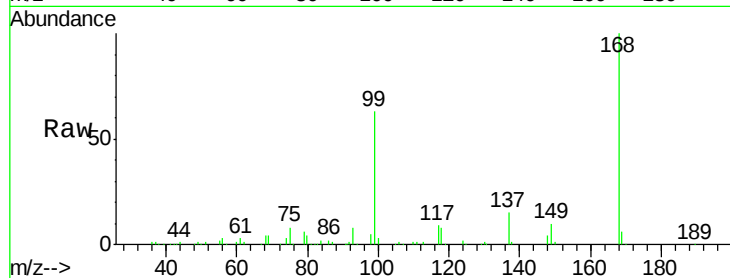
VD0703SBSD01

Tot Ion:168 Resp: 938897

Ion Ratio Lower Upper

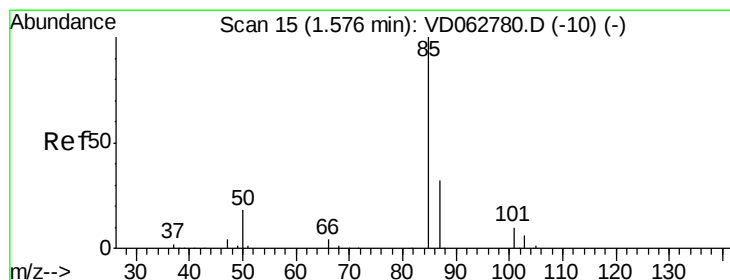
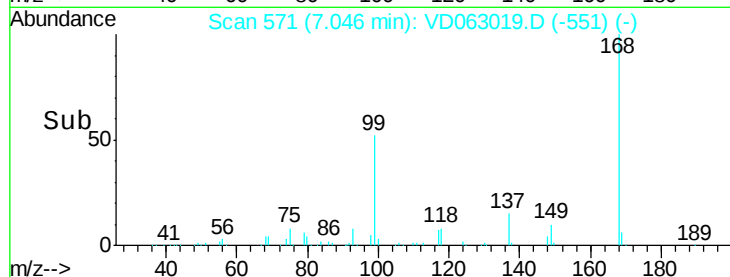
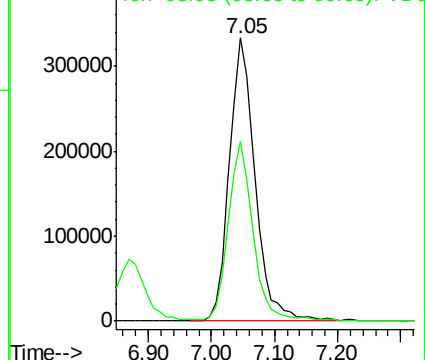
168 100

99 63.5 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#2

Dichlorodifluoromethane

Concen: 19.111 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.00 min

Lab File: VD063019.D

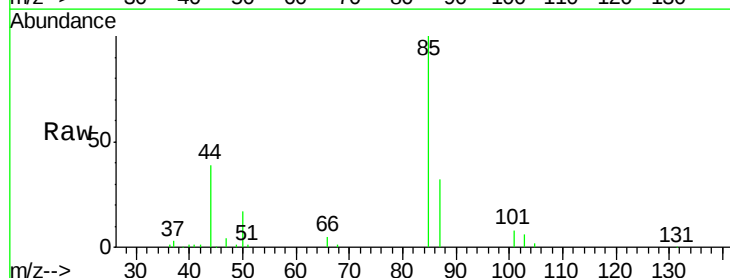
Acq: 3 Jul 2019 12:25

Tgt Ion: 85 Resp: 232198

Ion Ratio Lower Upper

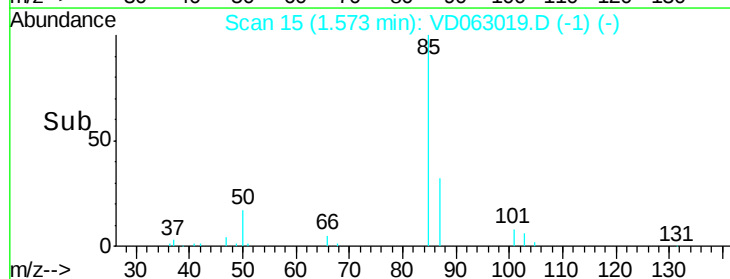
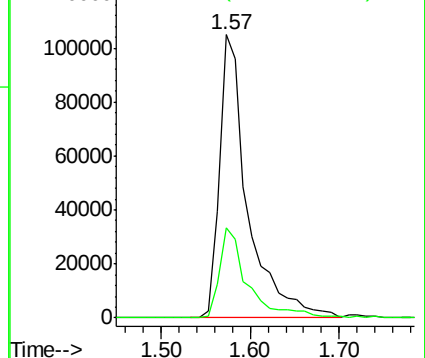
85 100

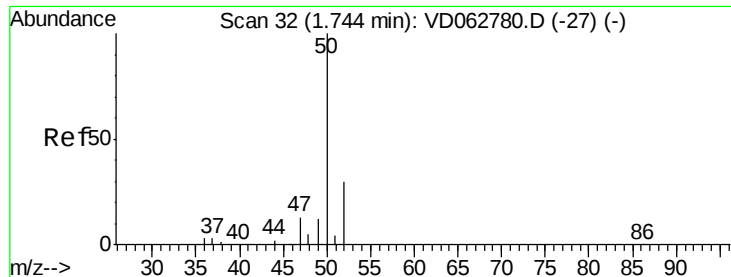
87 31.9 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 19.586 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

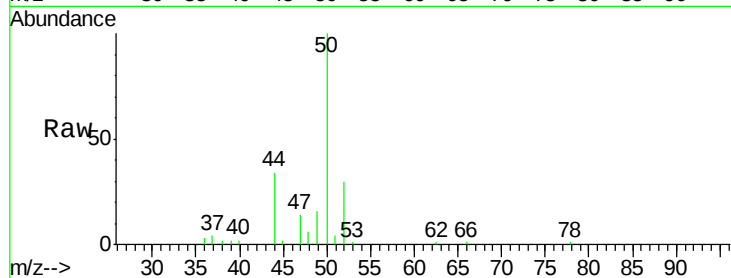
VD0703SBS01

Tot Ion: 50 Resp: 178961

Ion Ratio Lower Upper

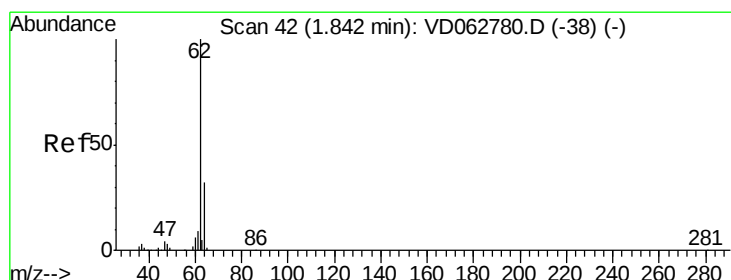
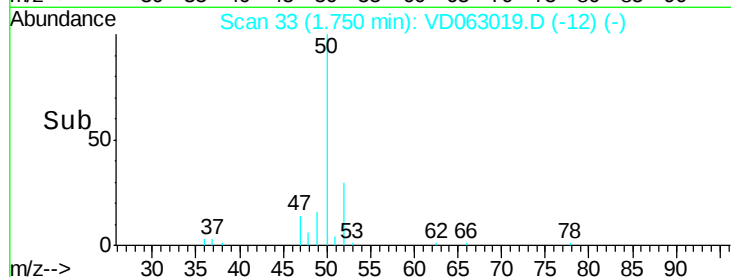
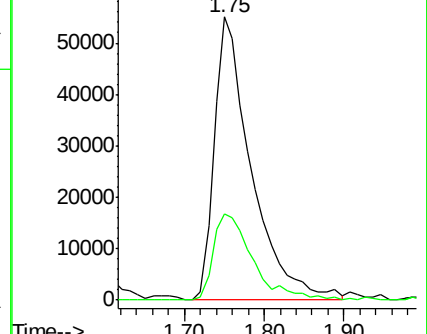
50 100

52 30.3 23.6 35.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 19.614 ug/l

RT: 1.85 min Scan# 43

Delta R.T. 0.01 min

Lab File: VD063019.D

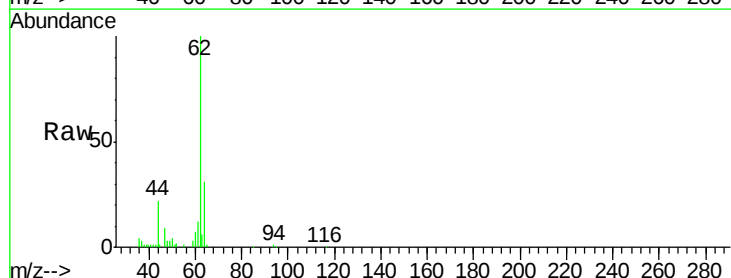
Acq: 3 Jul 2019 12:25

Tgt Ion: 62 Resp: 177694

Ion Ratio Lower Upper

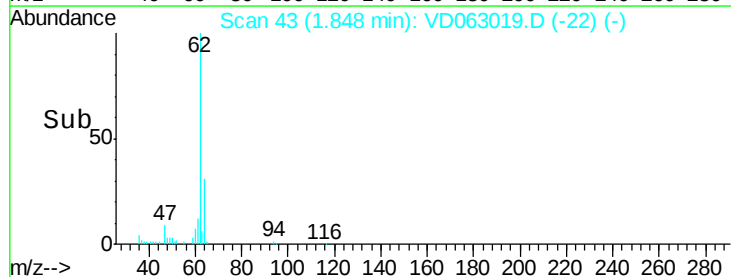
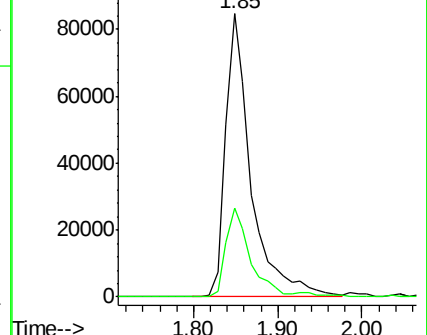
62 100

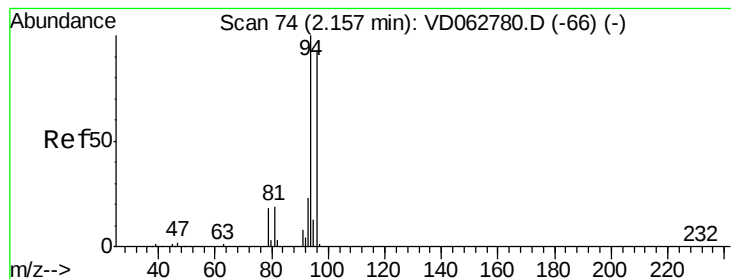
64 31.3 25.6 38.4



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 16.664 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

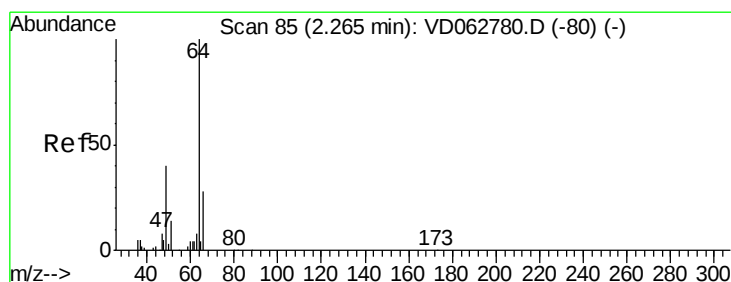
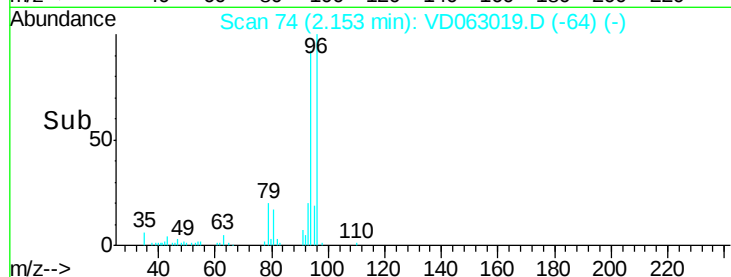
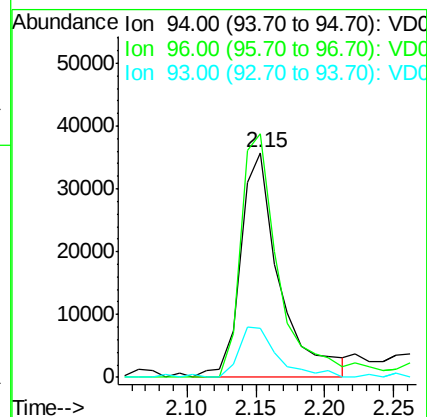
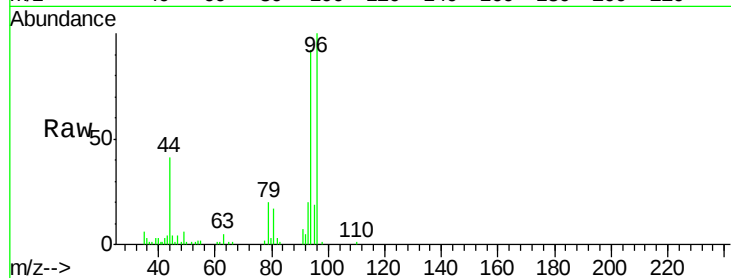
Tot Ion: 94 Resp: 70702

Ion Ratio Lower Upper

94 100

96 108.2 73.4 110.2

93 21.8 18.2 27.4



#6

Chloroethane

Concen: 20.847 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.00 min

Lab File: VD063019.D

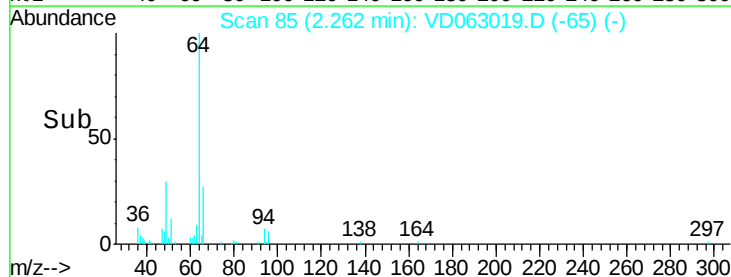
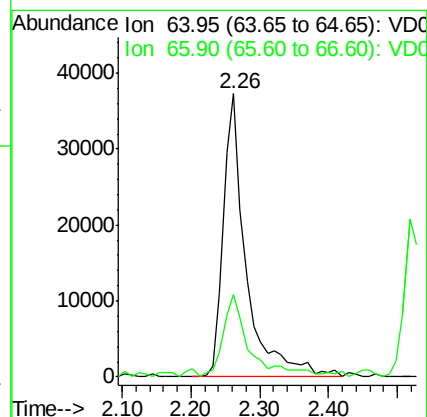
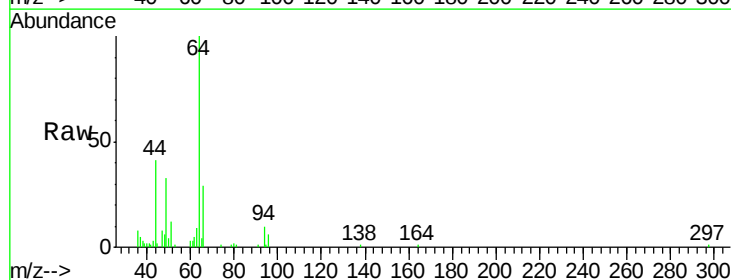
Acq: 3 Jul 2019 12:25

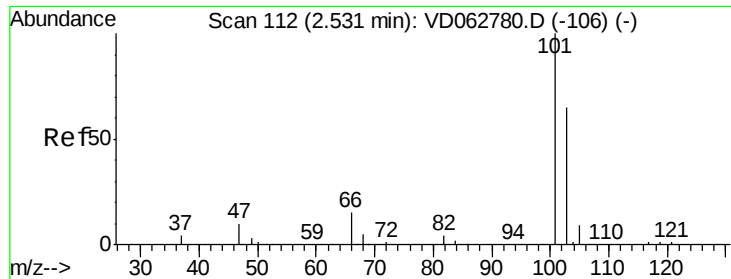
Tgt Ion: 64 Resp: 85507

Ion Ratio Lower Upper

64 100

66 29.0 23.0 34.4



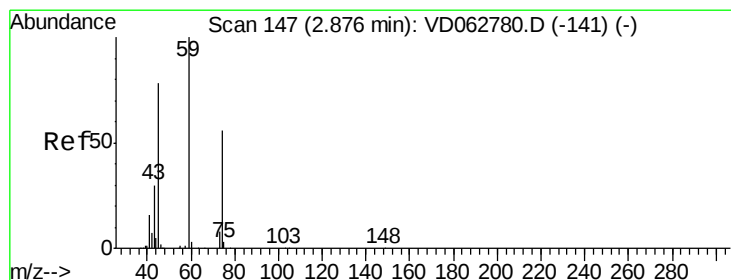
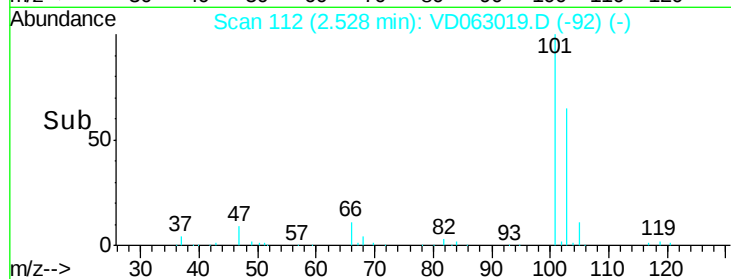
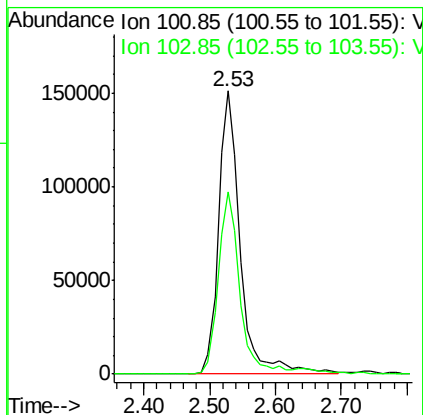
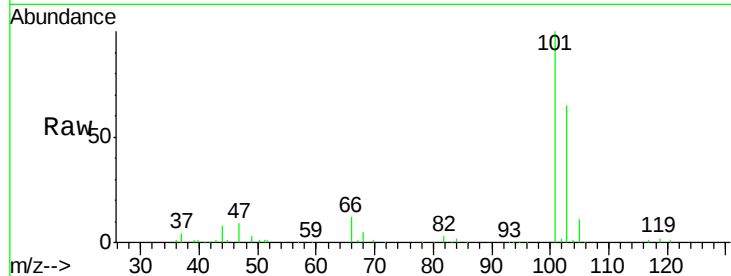


#7

Trichlorofluoromethane
 Concen: 18.852 ug/l
 RT: 2.53 min Scan# 112
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBSD01

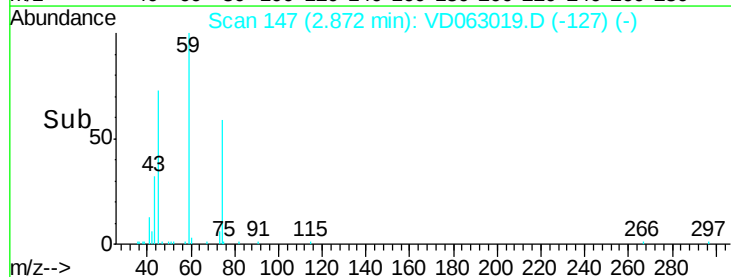
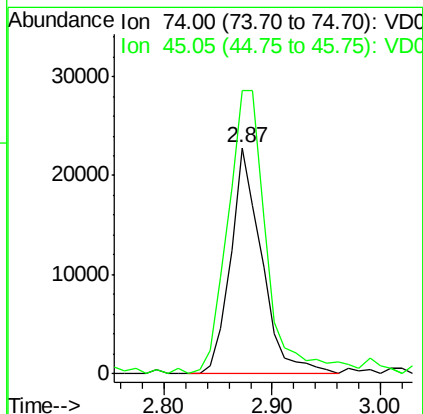
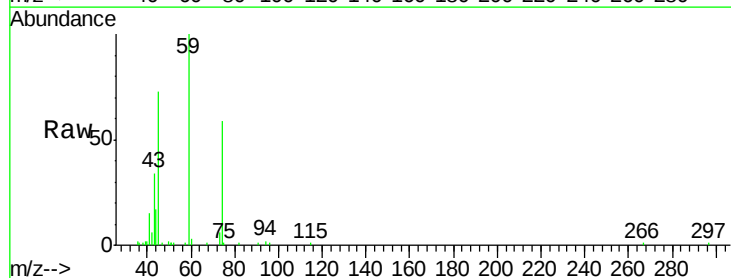
Tot Ion:101 Resp: 345639
 Ion Ratio Lower Upper
 101 100
 103 64.6 51.8 77.8

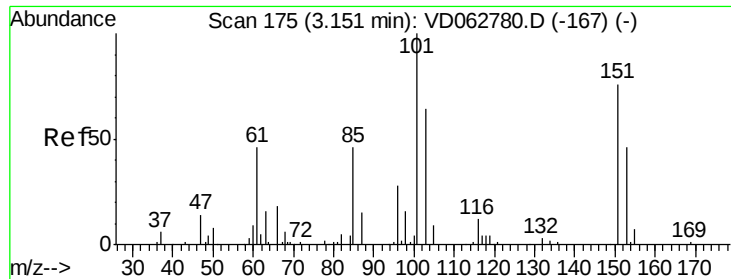


#8

Diethyl Ether
 Concen: 19.647 ug/l
 RT: 2.87 min Scan# 147
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Tgt Ion: 74 Resp: 45770
 Ion Ratio Lower Upper
 74 100
 45 125.1 70.2 210.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.692 ug/l

RT: 3.15 min Scan# 175

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBSD01

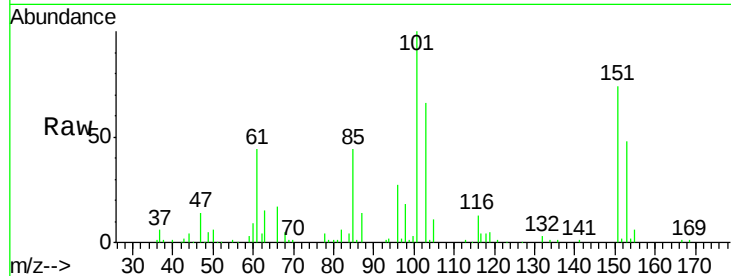
Tot Ion:101 Resp: 215461

Ion Ratio Lower Upper

101 100

85 43.8 37.0 55.4

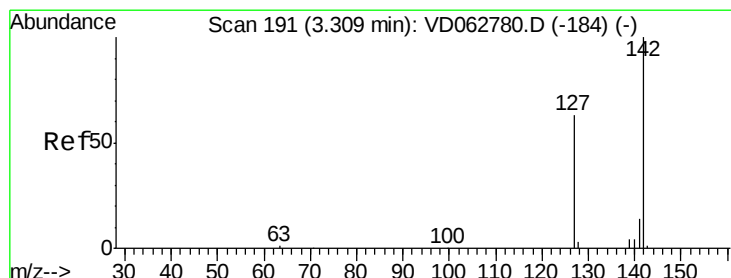
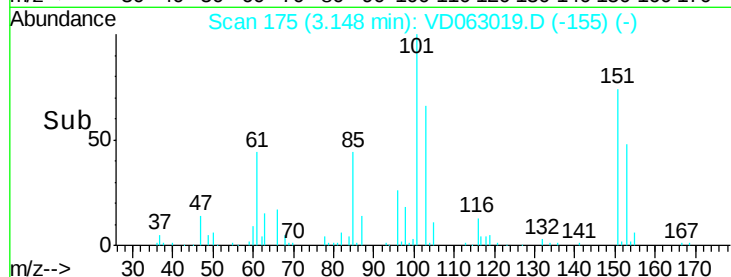
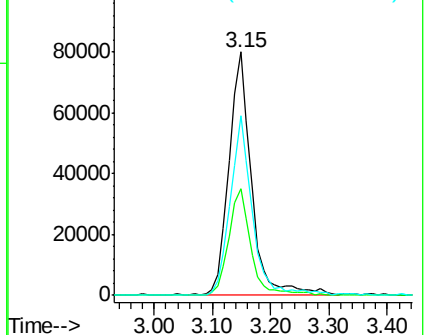
151 73.9 60.5 90.7



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 18.749 ug/l

RT: 3.30 min Scan# 190

Delta R.T. -0.01 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

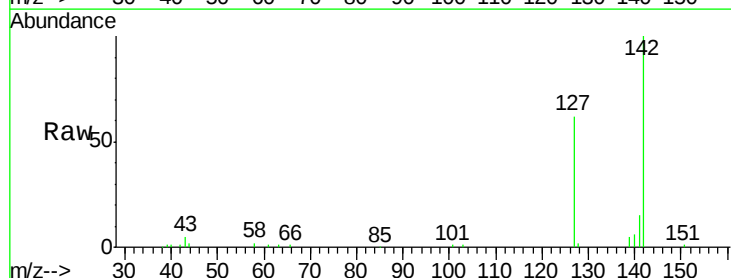
Tgt Ion:142 Resp: 245689

Ion Ratio Lower Upper

142 100

127 62.0 50.1 75.1

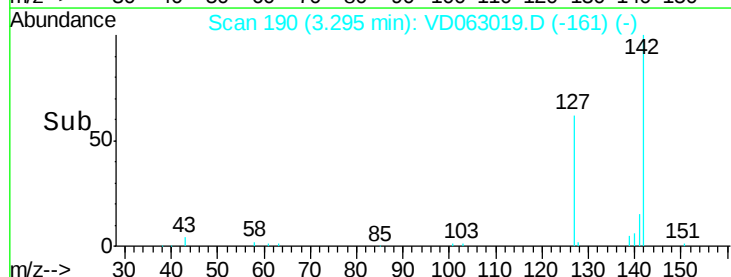
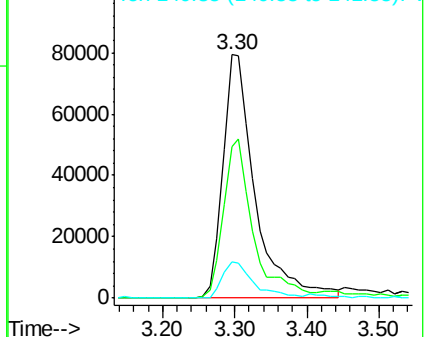
141 14.9 11.0 16.4

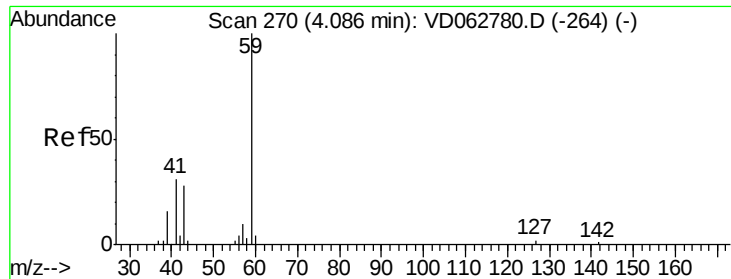


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



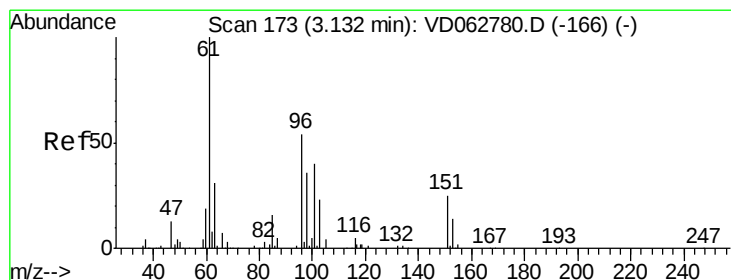
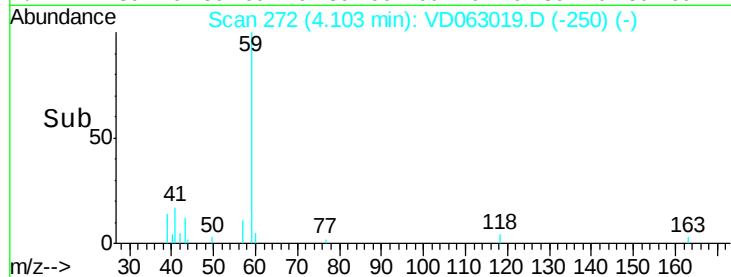
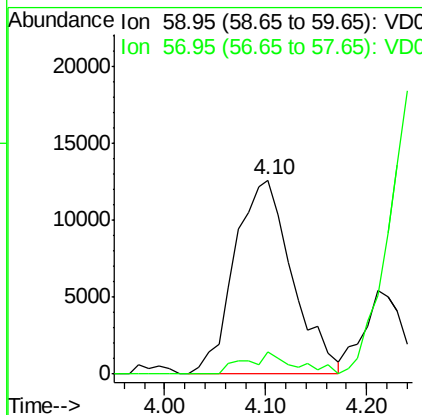
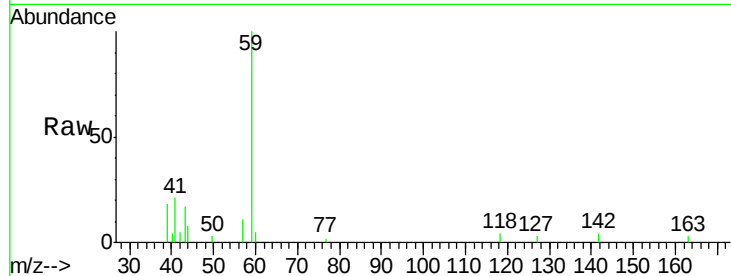


#11

Tert butyl alcohol
 Concen: 107.493 ug/l
 RT: 4.10 min Scan# 272
 Delta R.T. 0.02 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBSD01

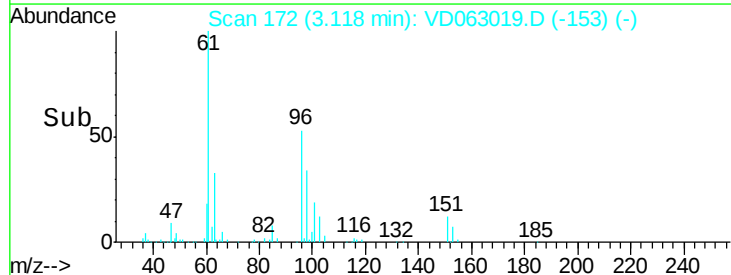
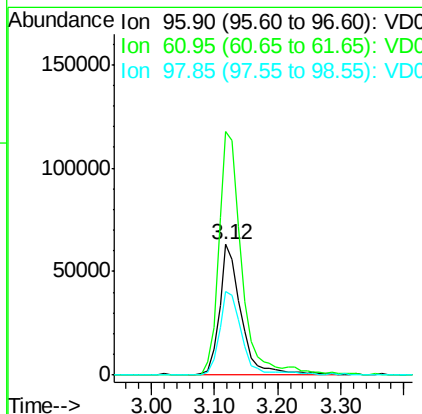
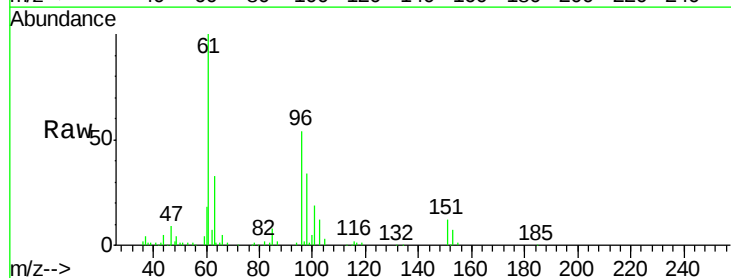
Tot Ion: 59 Resp: 49964
 Ion Ratio Lower Upper
 59 100
 57 11.4 6.6 10.0#

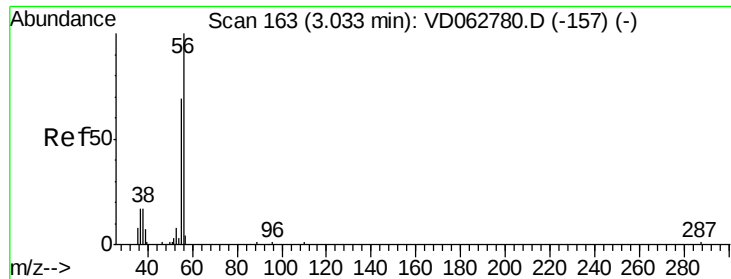


#12

1,1-Dichloroethene
 Concen: 20.454 ug/l
 RT: 3.12 min Scan# 172
 Delta R.T. -0.01 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Tgt Ion: 96 Resp: 152413
 Ion Ratio Lower Upper
 96 100
 61 186.0 147.1 220.7
 98 63.7 52.6 79.0





#13

Acrolein

Concen: 66.271 ug/l

RT: 3.04 min Scan# 164

Delta R.T. 0.01 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

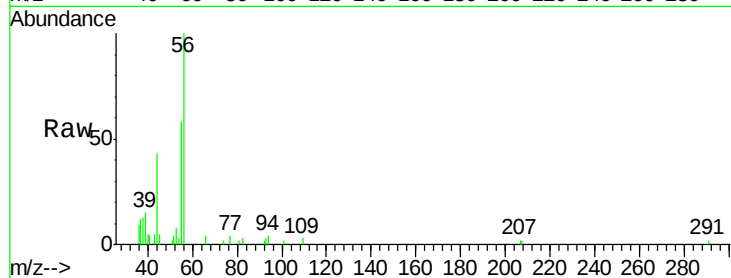
VD0703SBS01

Tot Ion: 56 Resp: 31447

Ion Ratio Lower Upper

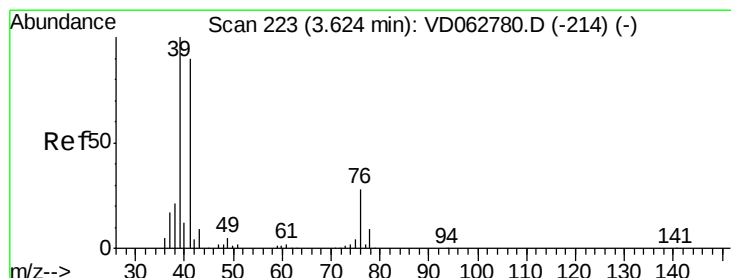
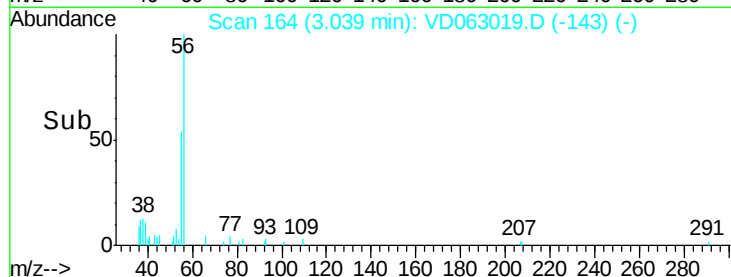
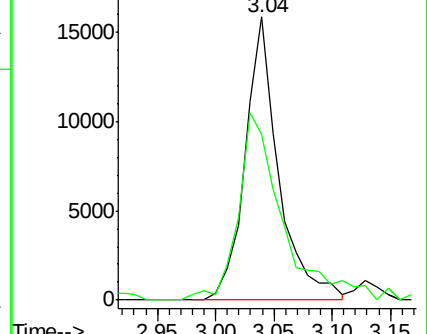
56 100

55 58.3 55.4 83.0



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 21.069 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.01 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

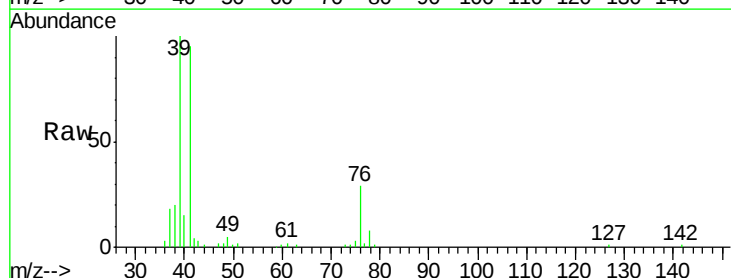
Tgt Ion: 41 Resp: 231970

Ion Ratio Lower Upper

41 100

39 105.8 88.8 133.2

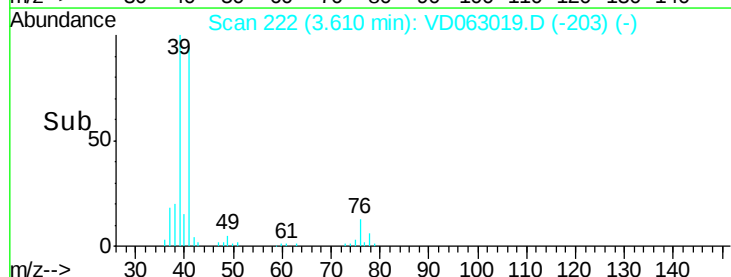
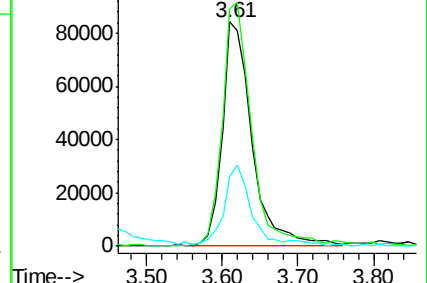
76 30.8 26.7 40.1

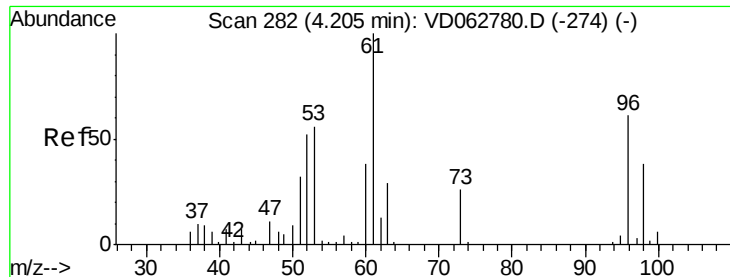


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 105.532 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

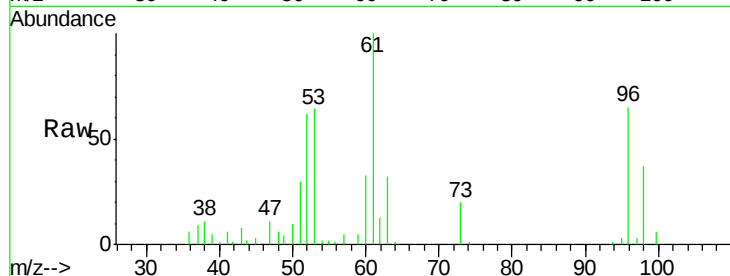
Tot Ion: 53 Resp: 115261

Ion Ratio Lower Upper

53 100

52 96.9 73.3 109.9

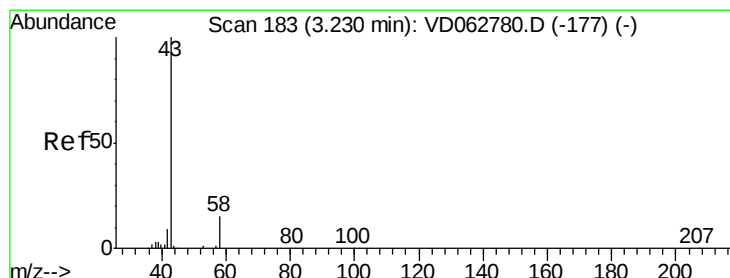
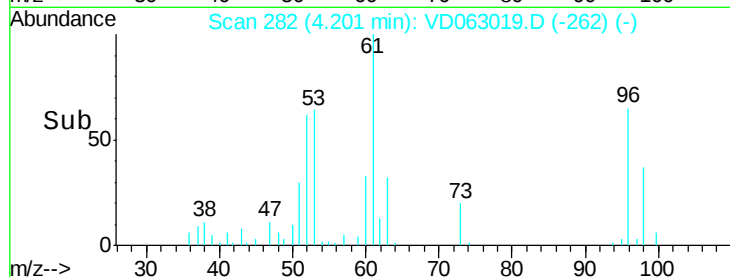
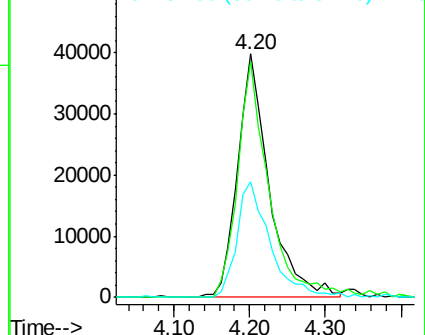
51 47.3 44.8 67.2



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 94.144 ug/l

RT: 3.23 min Scan# 183

Delta R.T. -0.00 min

Lab File: VD063019.D

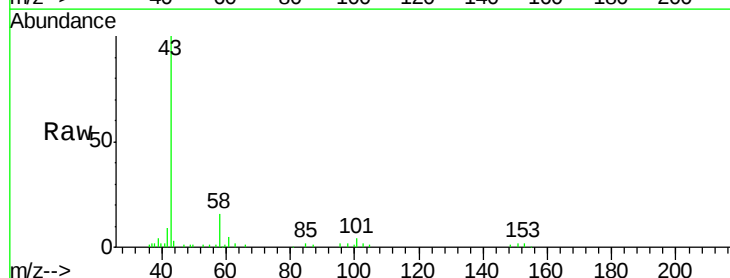
Acq: 3 Jul 2019 12:25

Tgt Ion: 43 Resp: 203868

Ion Ratio Lower Upper

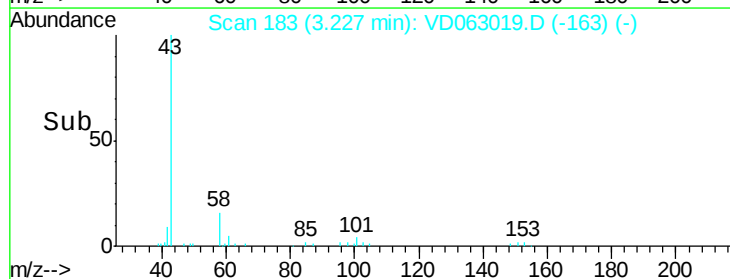
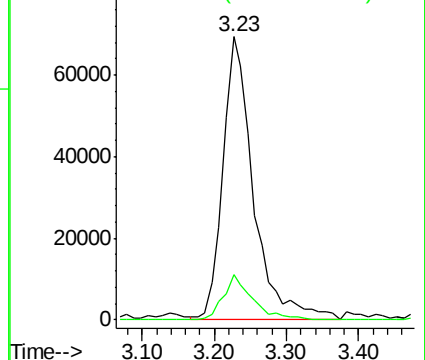
43 100

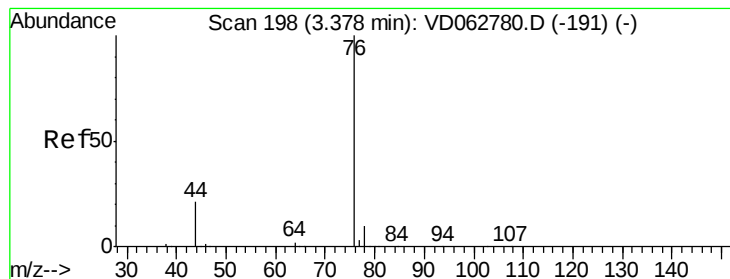
58 15.8 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 18.002 ug/l

RT: 3.37 min Scan# 198

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

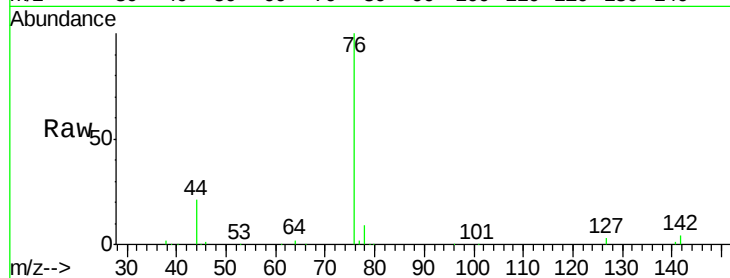
VD0703SBS01

Tot Ion: 76 Resp: 428702

Ion Ratio Lower Upper

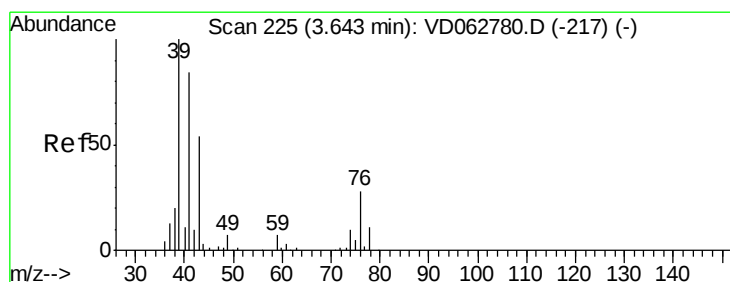
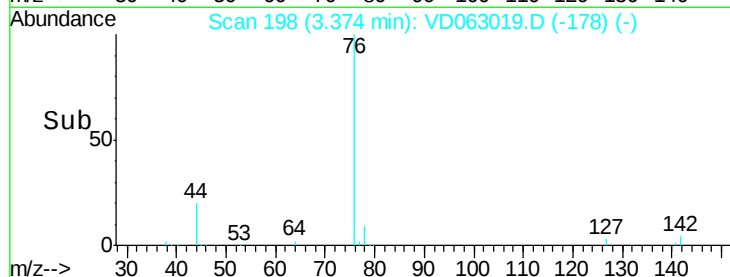
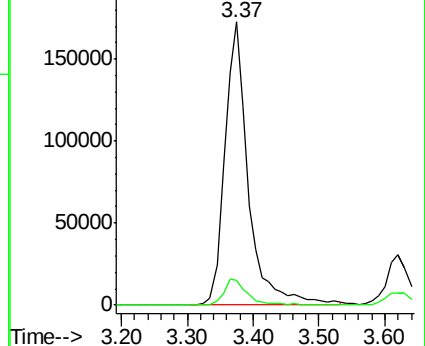
76 100

78 8.7 8.0 12.0



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 28.559 ug/l

RT: 3.65 min Scan# 226

Delta R.T. 0.01 min

Lab File: VD063019.D

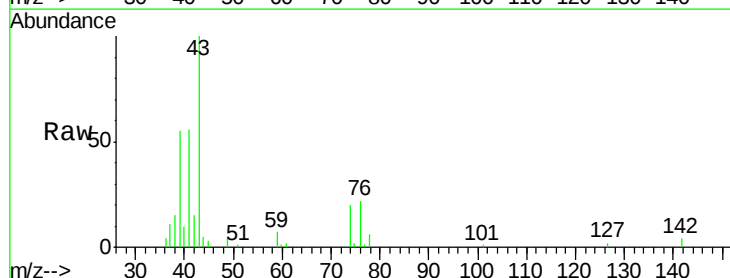
Acq: 3 Jul 2019 12:25

Tgt Ion: 43 Resp: 87986

Ion Ratio Lower Upper

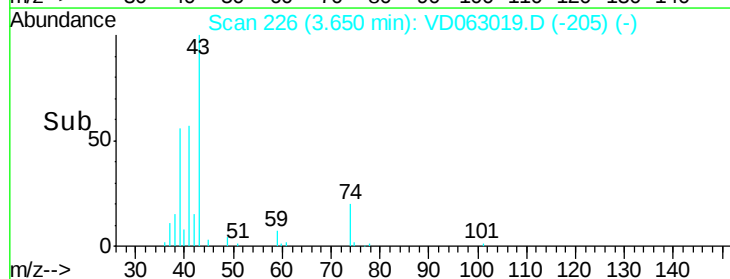
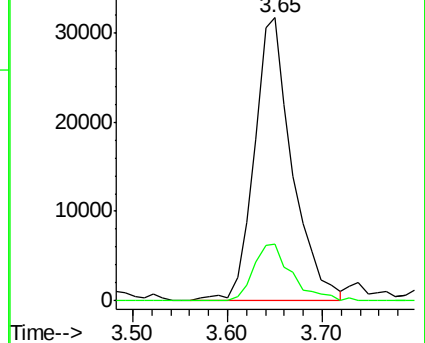
43 100

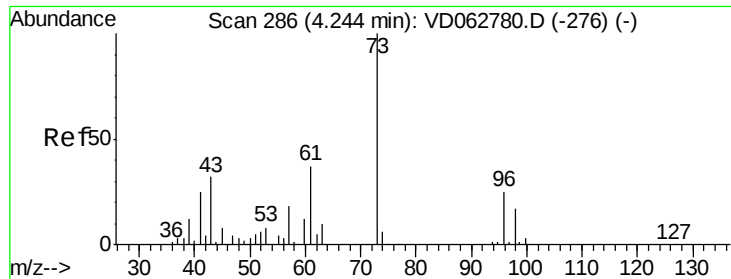
74 20.3 15.2 22.8



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

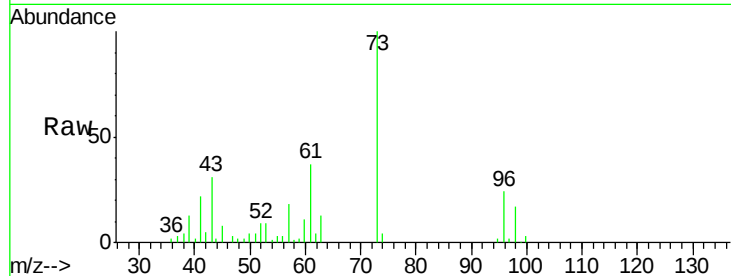




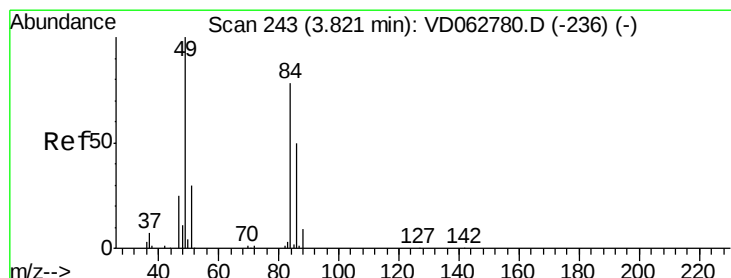
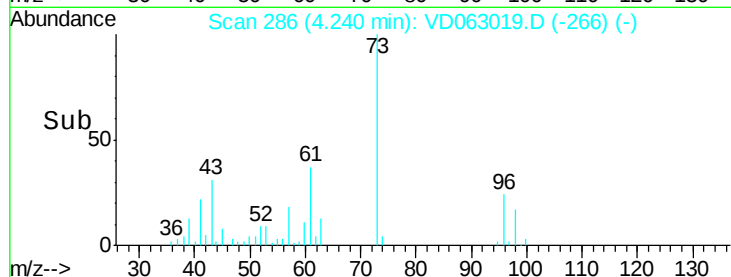
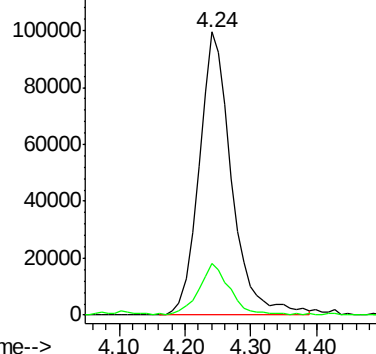
#19
Methvl tert-butvl Ether
Concen: 21.233 ug/l
RT: 4.24 min Scan# 286
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBSD01

Tot Ion: 73 Resp: 342505
Ion Ratio Lower Upper
73 100
57 18.5 14.3 21.5

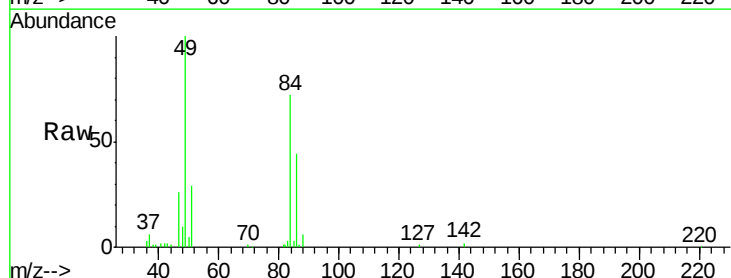


Abundance Ion 73.00 (72.70 to 73.70): VDC
Ion 57.05 (56.75 to 57.75): VDC

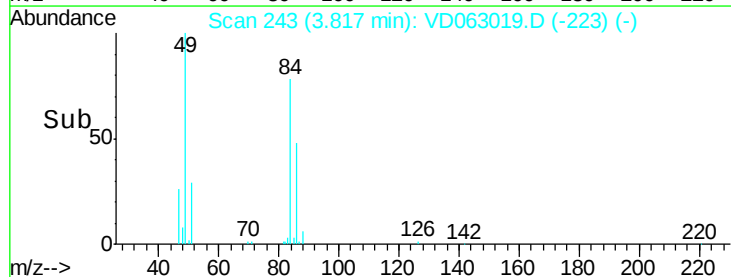
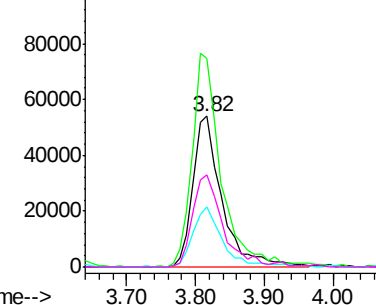


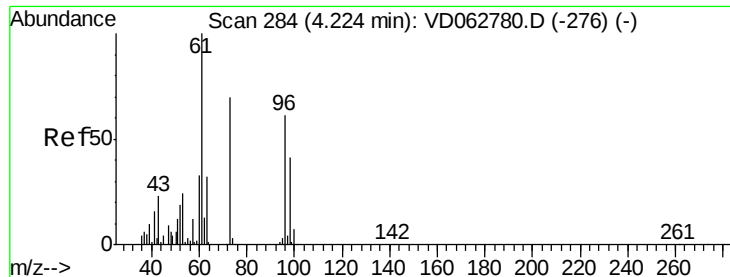
#20
Methylene Chloride
Concen: 20.362 ug/l
RT: 3.82 min Scan# 243
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Tgt Ion: 84 Resp: 158482
Ion Ratio Lower Upper
84 100
49 138.3 102.9 154.3
51 40.1 31.2 46.8
86 61.2 51.4 77.2



Abundance Ion 83.95 (83.65 to 84.65): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC





#21

trans-1,2-Dichloroethene

Concen: 20.422 ug/l

RT: 4.21 min Scan# 283

Delta R.T. -0.01 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBSD01

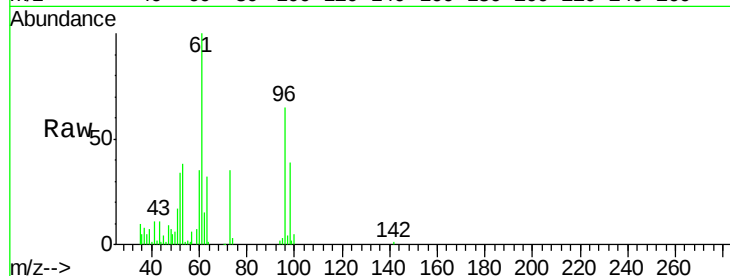
Tot Ion: 96 Resp: 162029

Ion Ratio Lower Upper

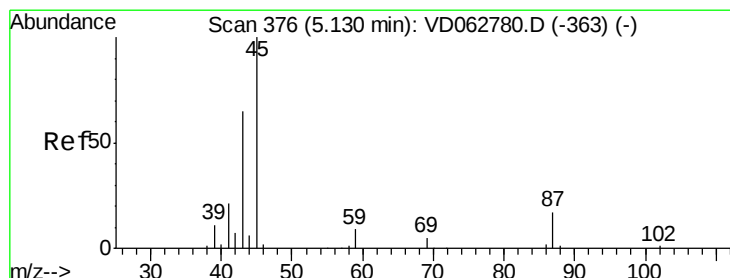
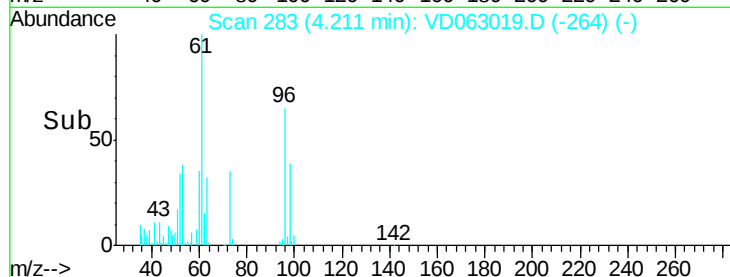
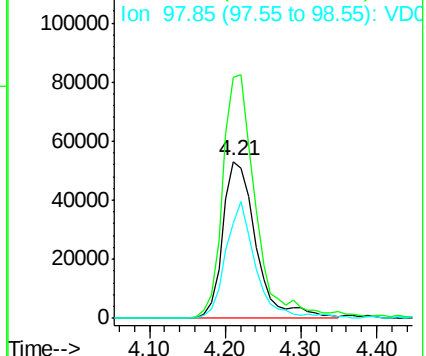
96 100

61 154.1 131.0 196.4

98 60.7 53.2 79.8



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: 20.971 ug/l

RT: 5.13 min Scan# 376

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Tgt Ion: 45 Resp: 469569

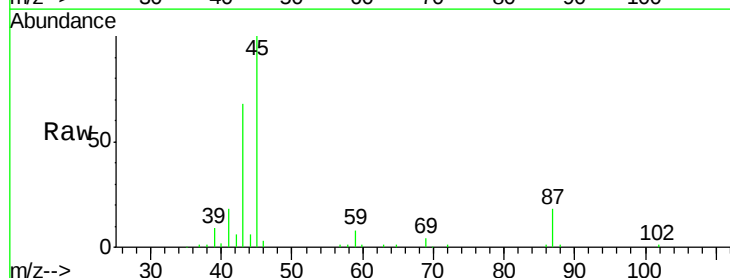
Ion Ratio Lower Upper

45 100

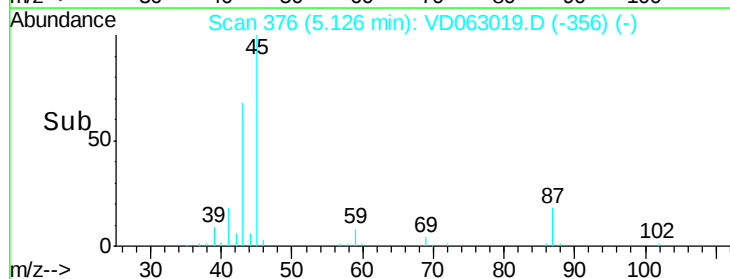
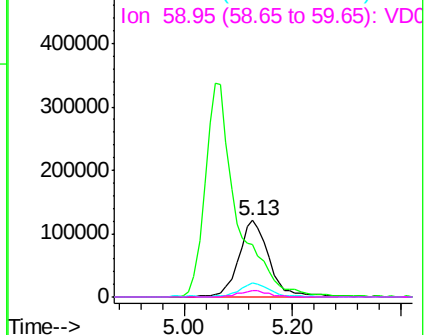
43 68.0 53.4 80.0

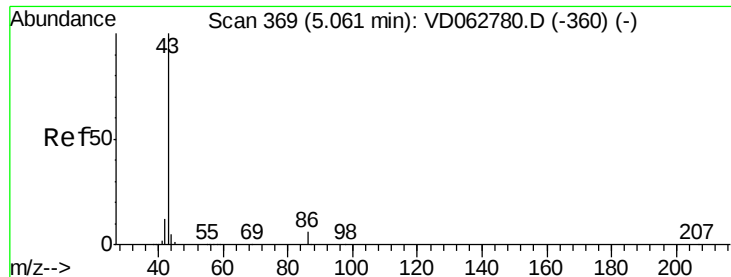
87 18.0 14.6 22.0

59 8.3 7.8 11.8



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: 96.758 ug/l

RT: 5.06 min Scan# 369

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

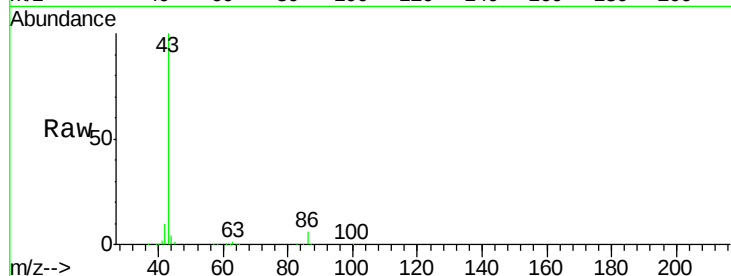
VD0703SBS01

Tot Ion: 43 Resp: 1355678

Ion Ratio Lower Upper

43 100

86 5.6 4.7 7.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC

5.06

400000

300000

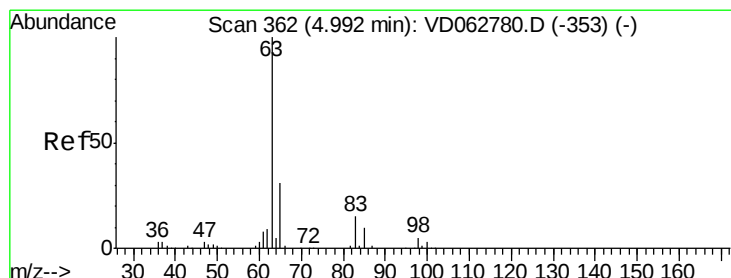
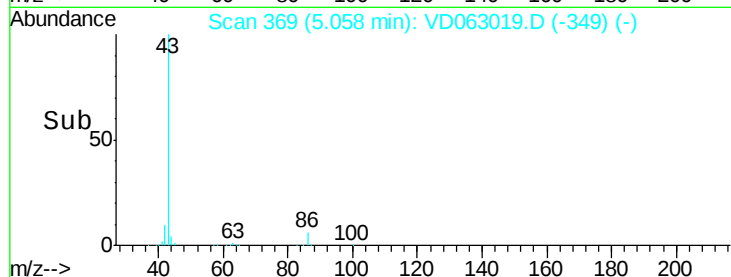
200000

100000

0

Time-->

4.90 5.00 5.10 5.20 5.30



#24

1,1-Dichloroethane

Concen: 20.441 ug/l

RT: 4.99 min Scan# 362

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

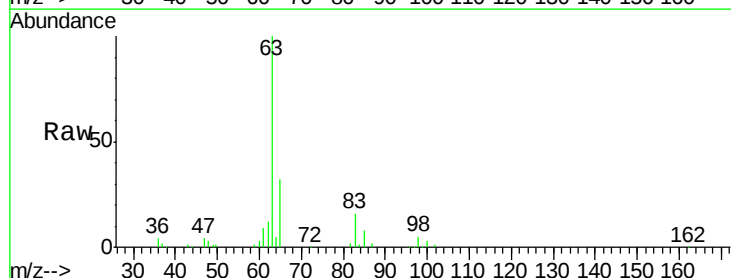
Tgt Ion: 63 Resp: 298002

Ion Ratio Lower Upper

63 100

98 5.3 2.3 6.9

100 2.8 1.7 5.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC

4.99

100000

80000

60000

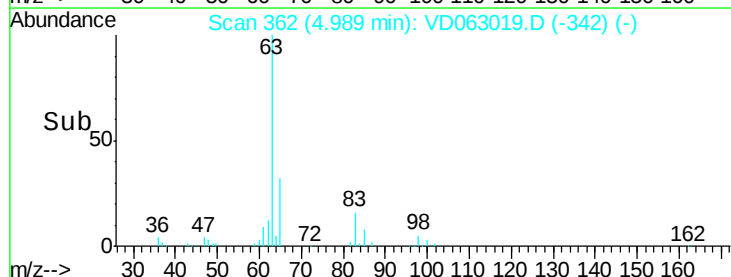
40000

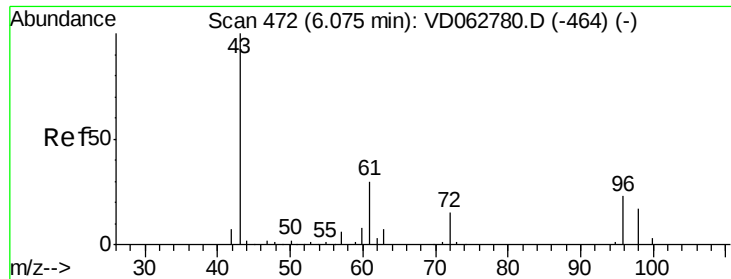
20000

0

Time-->

4.80 4.90 5.00 5.10 5.20





#25

2-Butanone

Concen: 103.245 ug/l

RT: 6.07 min Scan# 472

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

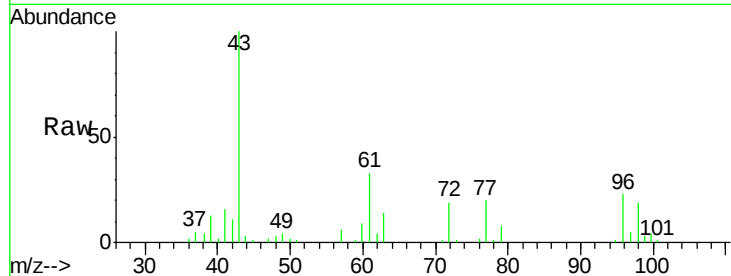
VD0703SBSD01

Tot Ion: 43 Resp: 197072

Ion Ratio Lower Upper

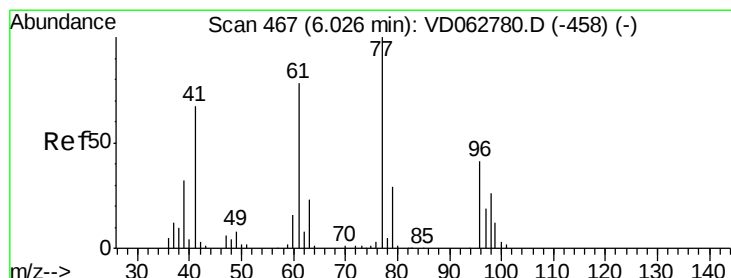
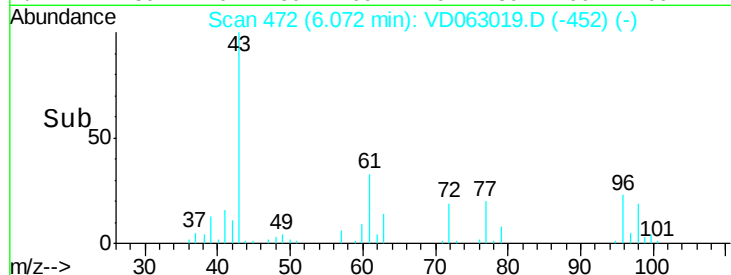
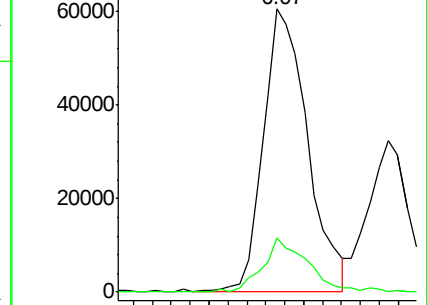
43 100

72 19.2 11.9 17.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 19.319 ug/l

RT: 6.03 min Scan# 468

Delta R.T. 0.01 min

Lab File: VD063019.D

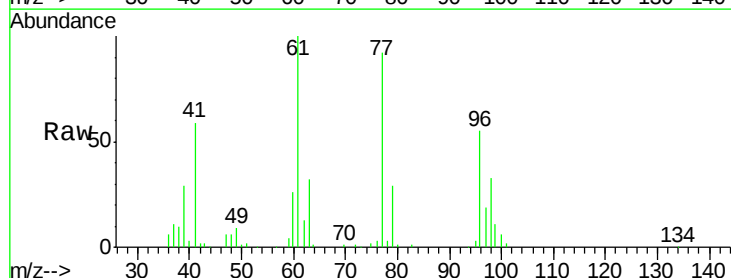
Acq: 3 Jul 2019 12:25

Tgt Ion: 77 Resp: 298516

Ion Ratio Lower Upper

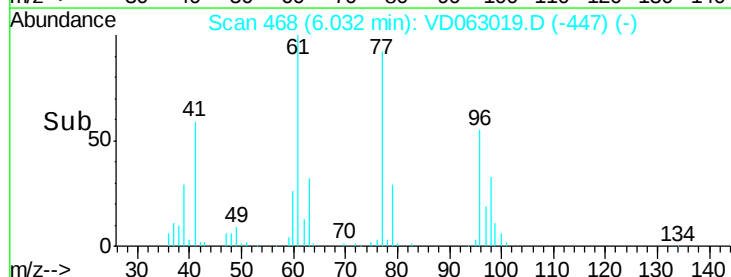
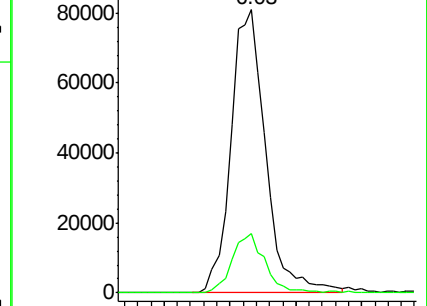
77 100

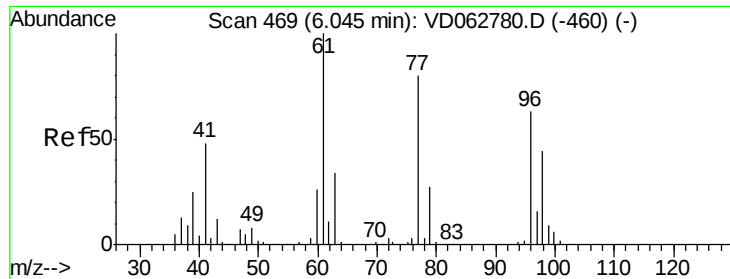
97 21.0 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



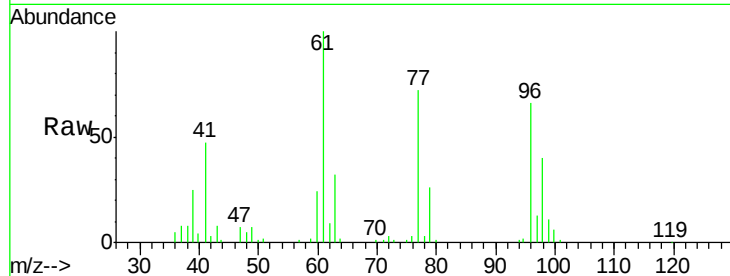


#27

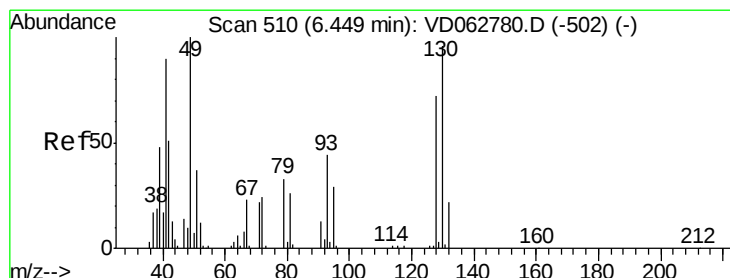
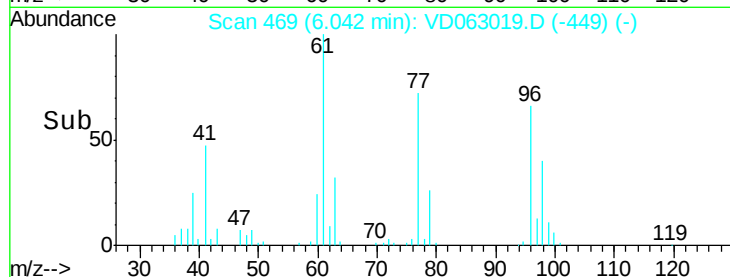
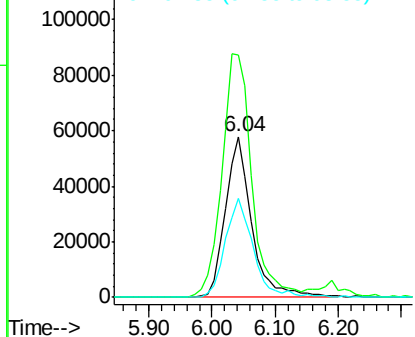
cis-1,2-Dichloroethene
Concen: 19.929 ug/l
RT: 6.04 min Scan# 469
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBSD01

Tot Ion: 96 Resp: 167212
Ion Ratio Lower Upper
96 100
61 151.0 0.0 316.0
98 61.1 0.0 138.4



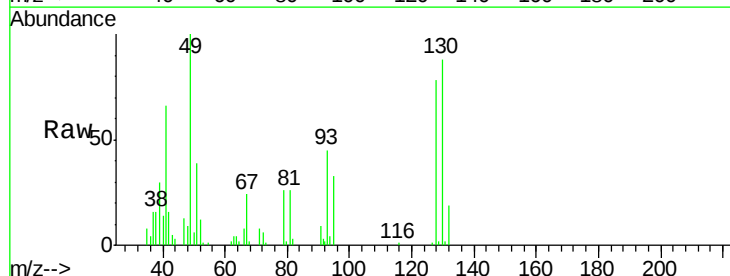
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



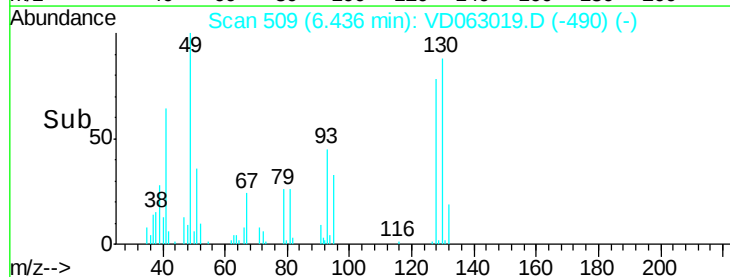
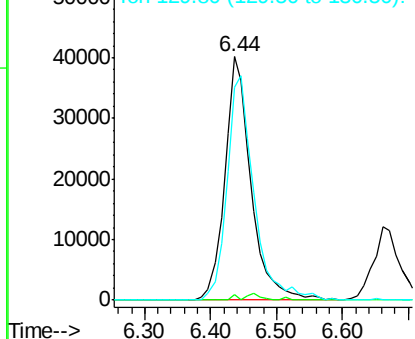
#28

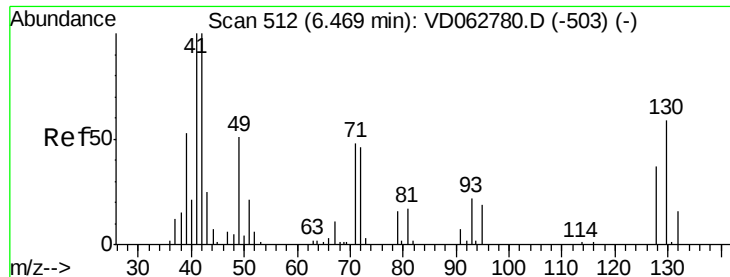
Bromochloromethane
Concen: 21.725 ug/l
RT: 6.44 min Scan# 509
Delta R.T. -0.01 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Tgt Ion: 49 Resp: 111545
Ion Ratio Lower Upper
49 100
129 2.3 0.0 5.6
130 87.6 76.6 114.8



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





#29

Tetrahydrofuran

Concen: 106.323 ug/l

RT: 6.48 min Scan# 513

Delta R.T. 0.01 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

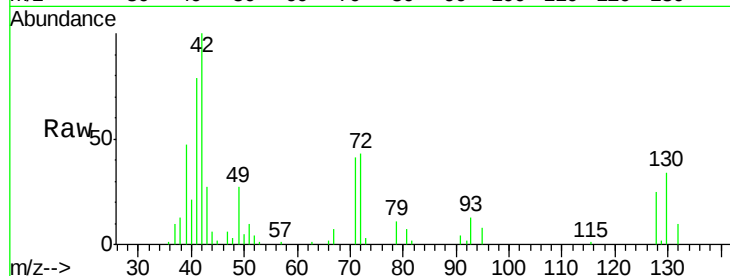
Tot Ion: 42 Resp: 96022

Ion Ratio Lower Upper

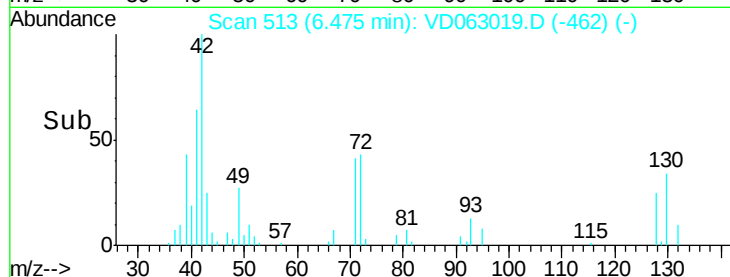
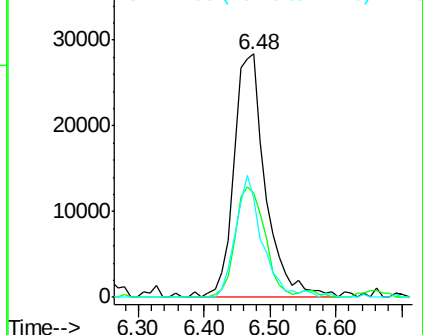
42 100

72 42.5 35.0 52.6

71 42.2 33.3 49.9



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: 20.997 ug/l

RT: 6.66 min Scan# 532

Delta R.T. -0.01 min

Lab File: VD063019.D

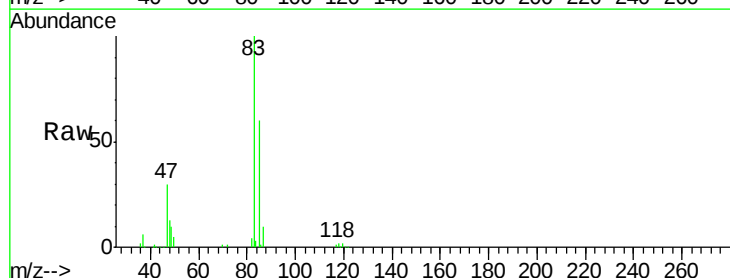
Acq: 3 Jul 2019 12:25

Tgt Ion: 83 Resp: 372272

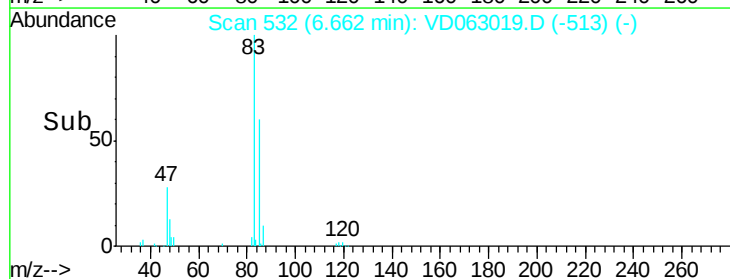
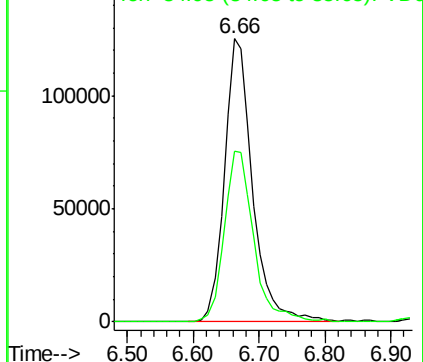
Ion Ratio Lower Upper

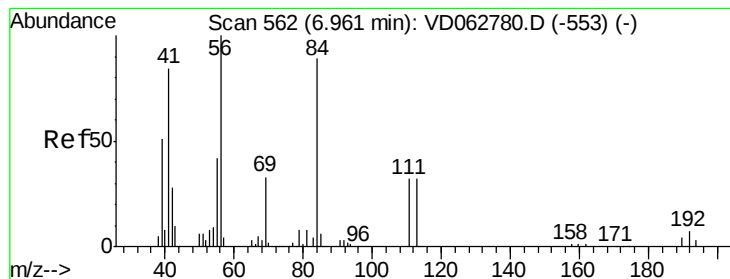
83 100

85 60.5 49.8 74.6



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





#31

Cyclohexane

Concen: 18.833 ug/l

RT: 6.95 min Scan# 561

Delta R.T. -0.01 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

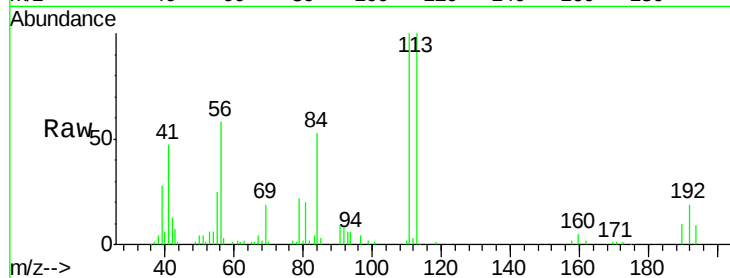
Tot Ion: 56 Resp: 180491

Ion Ratio Lower Upper

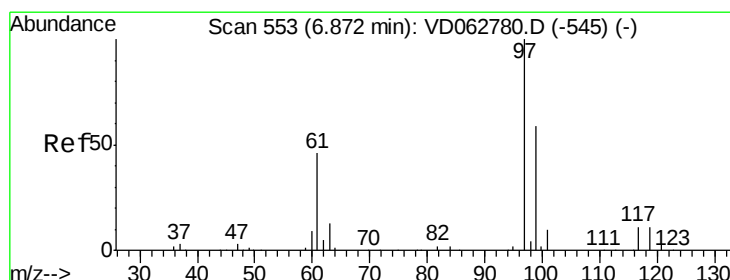
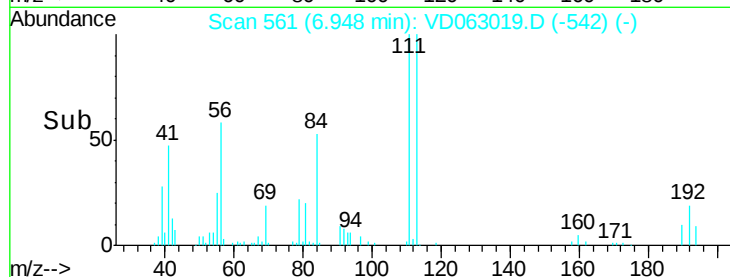
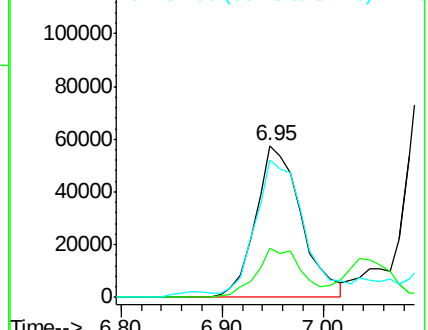
56 100

69 32.0 26.6 39.8

84 90.6 75.5 113.3



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: 19.670 ug/l

RT: 6.87 min Scan# 553

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

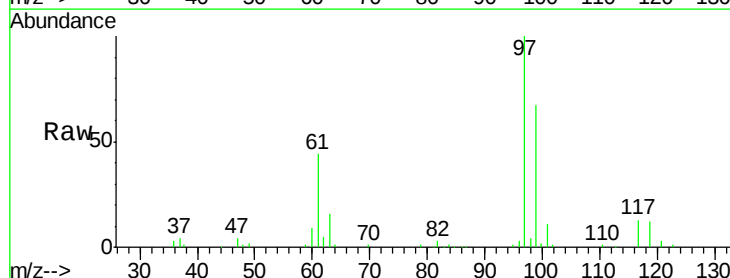
Tgt Ion: 97 Resp: 363228

Ion Ratio Lower Upper

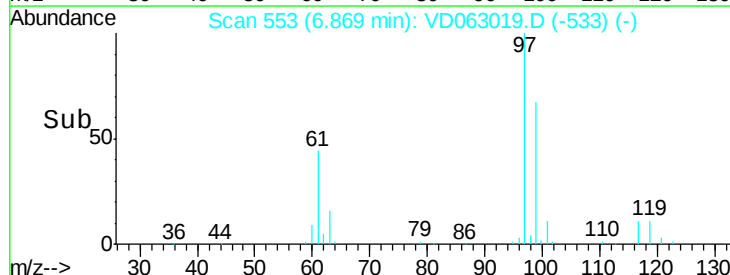
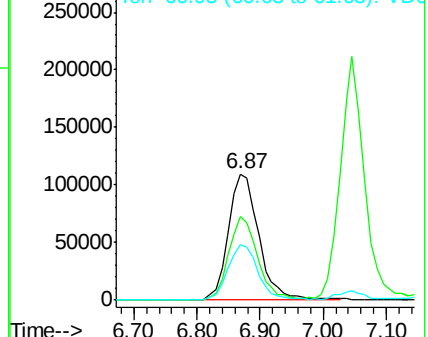
97 100

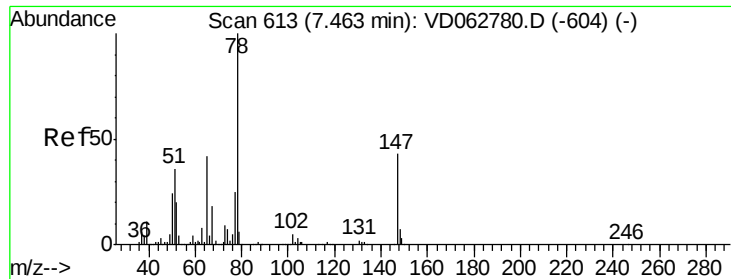
99 66.7 47.4 71.2

61 44.2 37.2 55.8



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: 49.573 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

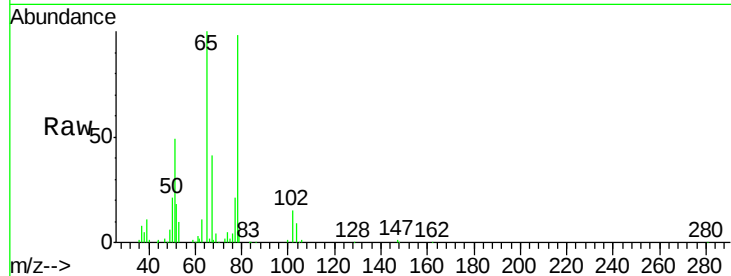
VD0703SBSD01

Tot Ion: 65 Resp: 505925

Ion Ratio Lower Upper

65 100

67 40.9 0.0 87.4



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.46

200000

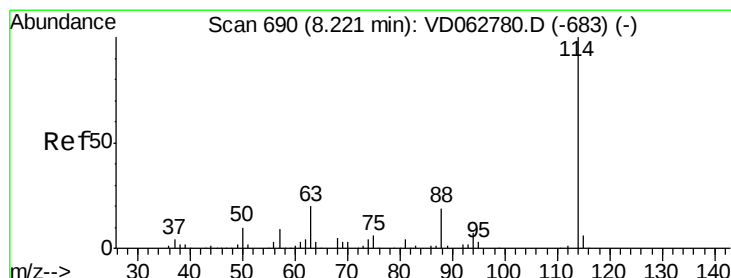
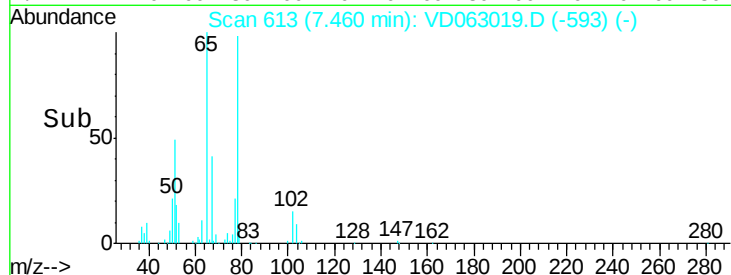
150000

100000

50000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.22 min Scan# 690

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

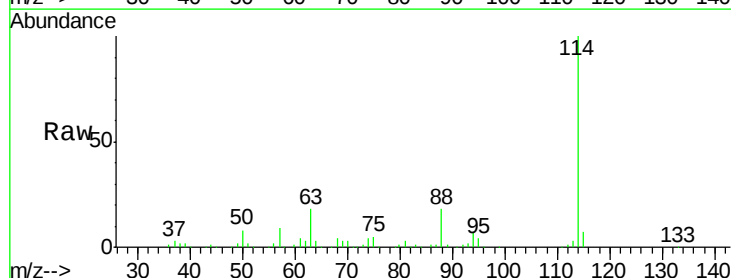
Tgt Ion: 114 Resp: 1239492

Ion Ratio Lower Upper

114 100

63 18.5 0.0 40.0

88 17.8 0.0 38.8



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.22

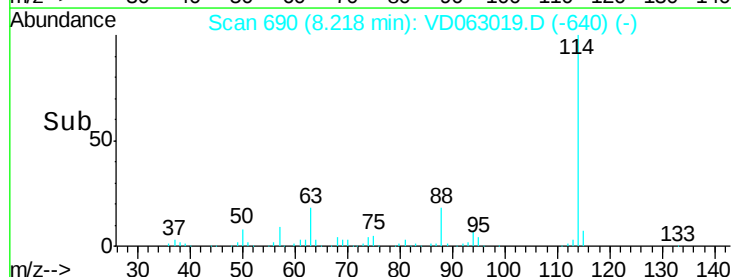
600000

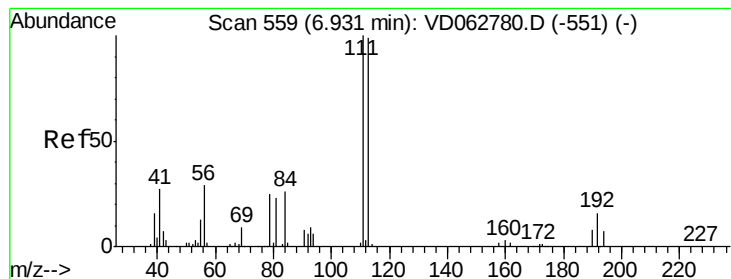
400000

200000

0

Time--> 8.10 8.20 8.30 8.40





#35

Dibromofluoromethane

Concen: 50.266 ug/l

RT: 6.93 min Scan# 559

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBSD01

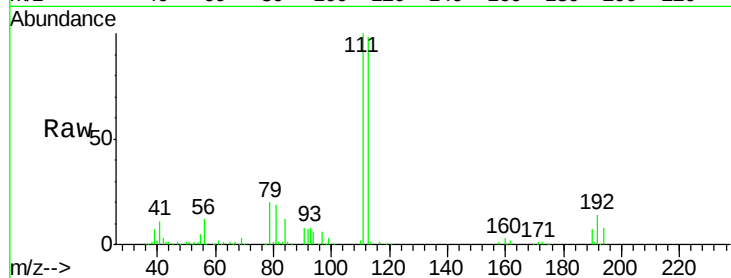
Tot Ion:113 Resp: 525347

Ion Ratio Lower Upper

113 100

111 102.4 81.2 121.8

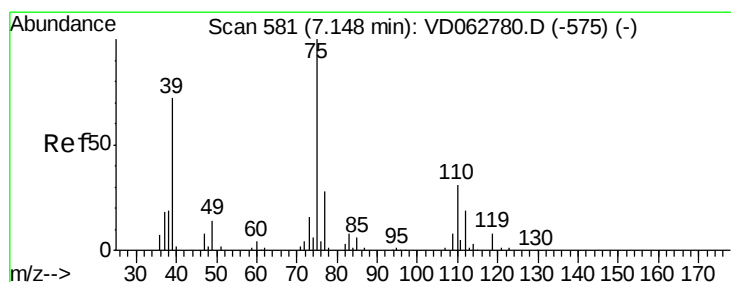
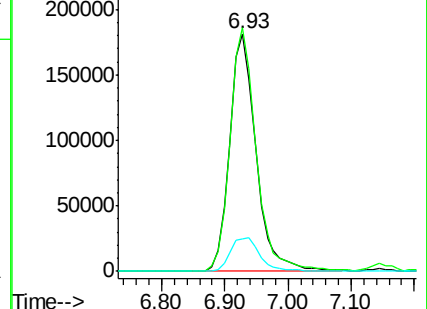
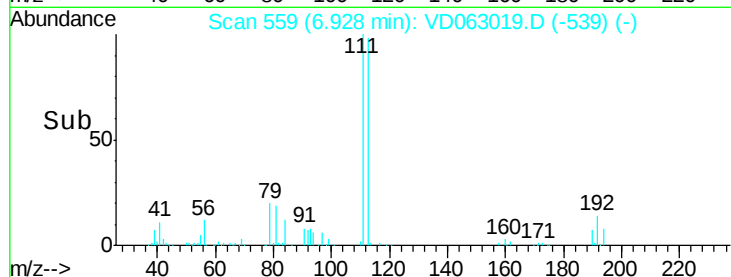
192 13.9 12.9 19.3



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 20.339 ug/l

RT: 7.14 min Scan# 581

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

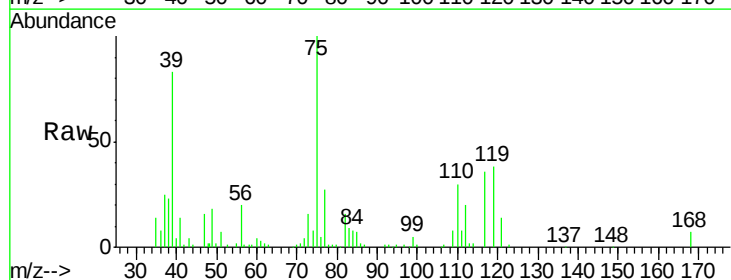
Tgt Ion: 75 Resp: 238653

Ion Ratio Lower Upper

75 100

110 30.3 15.0 45.1

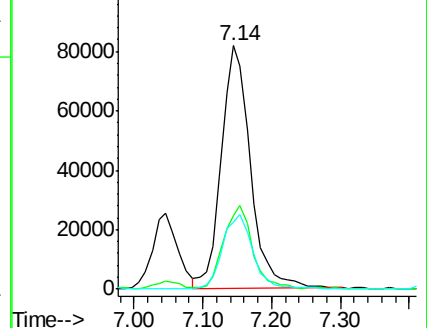
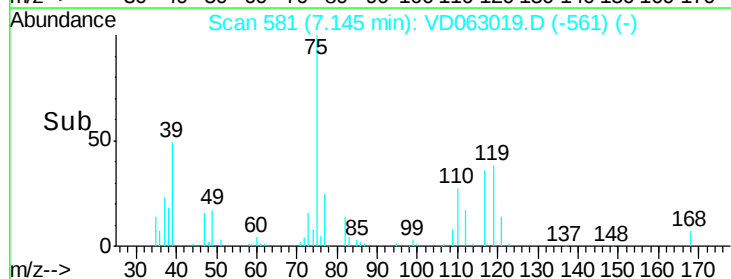
77 27.5 22.2 33.2

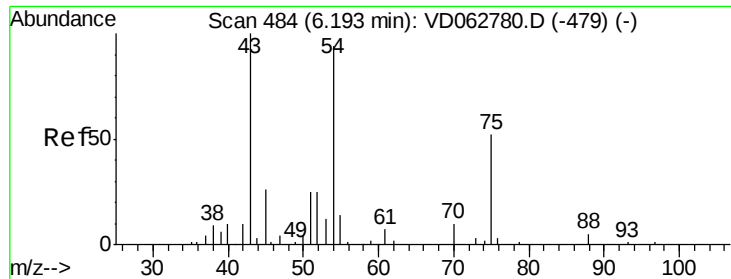


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): VDC

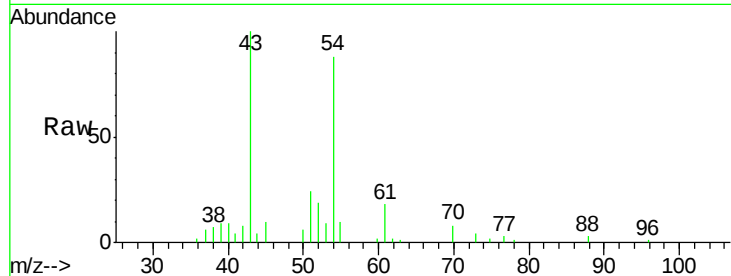




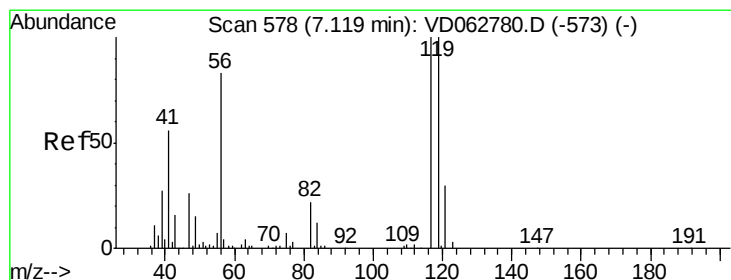
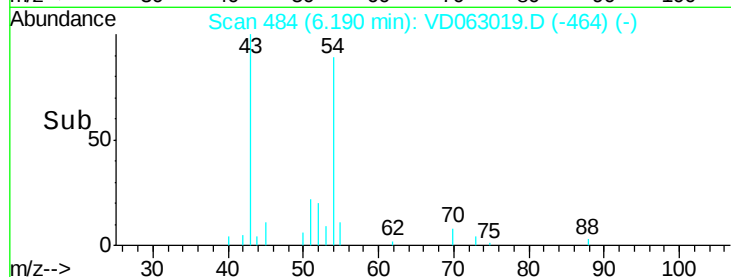
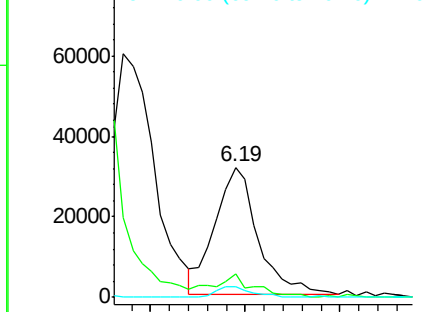
#37
Ethyl Acetate
Concen: 19.733 ug/l
RT: 6.19 min Scan# 484
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBSD01

Tot Ion: 43 Resp: 100549
Ion Ratio Lower Upper
43 100
61 18.3 11.6 17.4#
70 8.0 6.4 9.6

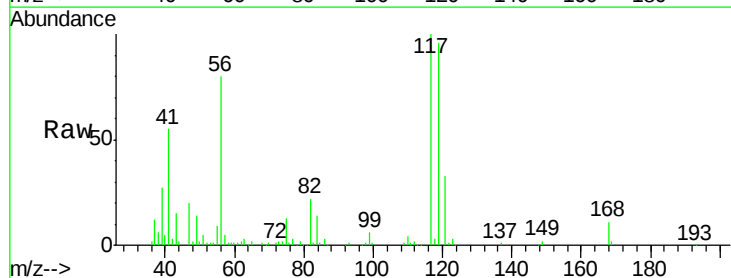


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

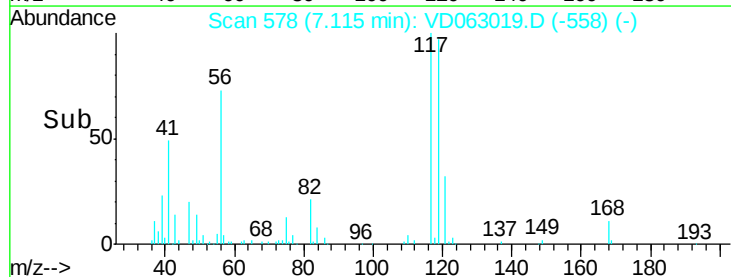
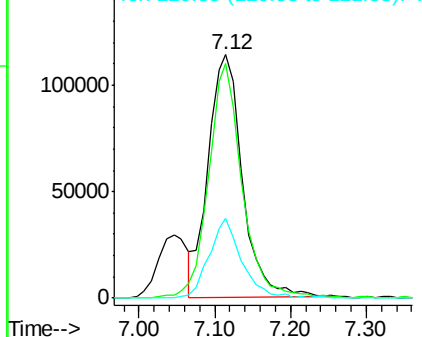


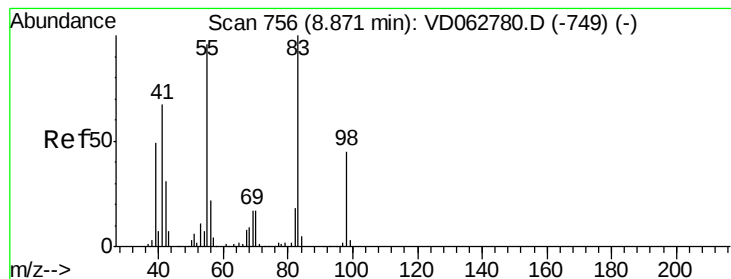
#38
Carbon Tetrachloride
Concen: 20.351 ug/l
RT: 7.12 min Scan# 578
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Tgt Ion: 117 Resp: 359137
Ion Ratio Lower Upper
117 100
119 96.3 75.4 113.2
121 32.7 22.3 33.5



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: 20.344 ug/l

RT: 8.87 min Scan# 756

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBSD01

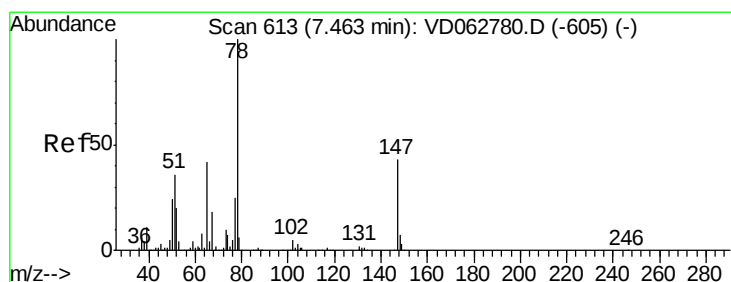
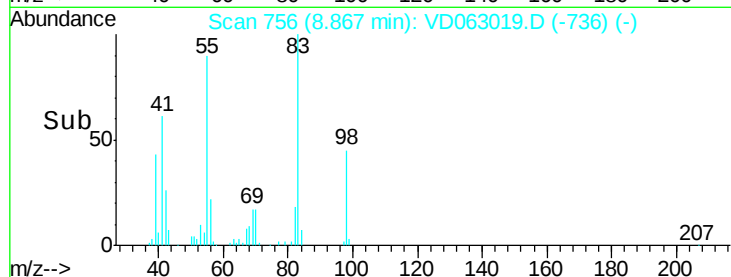
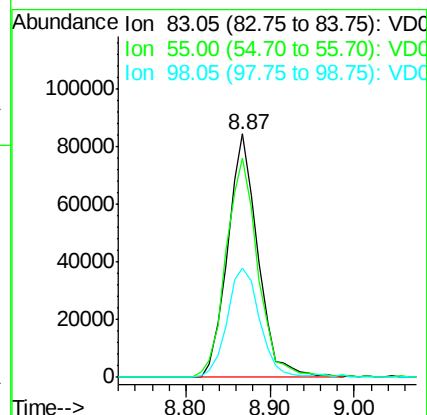
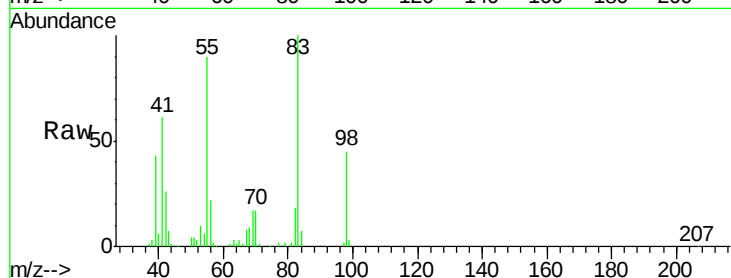
Tot Ion: 83 Resp: 210117

Ion Ratio Lower Upper

83 100

55 89.9 76.6 115.0

98 44.7 35.7 53.5



#40

Benzene

Concen: 21.701 ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.00 min

Lab File: VD063019.D

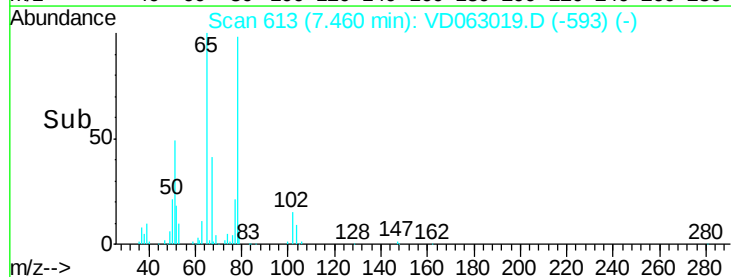
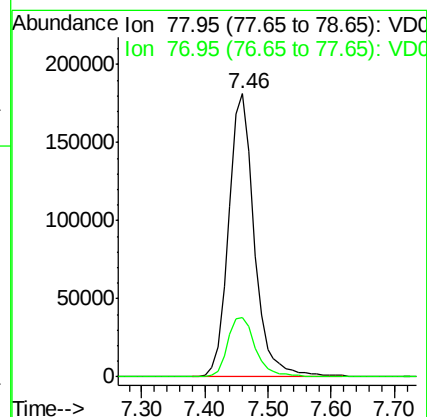
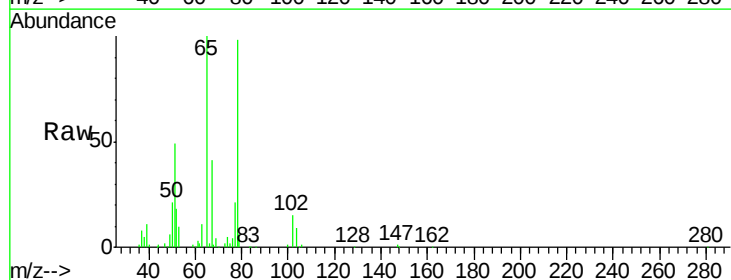
Acq: 3 Jul 2019 12:25

Tgt Ion: 78 Resp: 511123

Ion Ratio Lower Upper

78 100

77 21.1 20.2 30.2





#41

Methacrylonitrile

Concen: 20.961 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

Tot Ion: 41 Resp: 129702

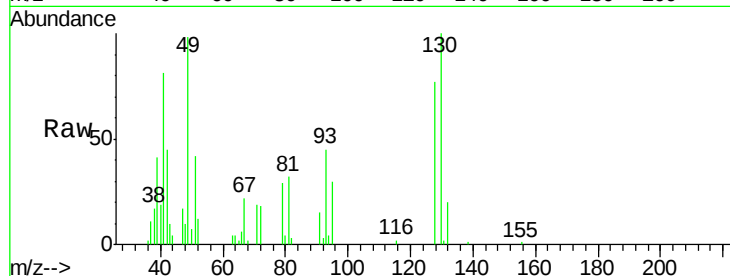
Ion Ratio Lower Upper

41 100

39 51.4 43.2 64.8

67 27.3 19.9 29.9

52 15.1 10.2 15.4

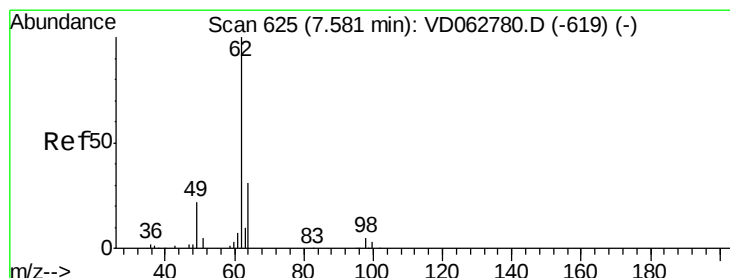
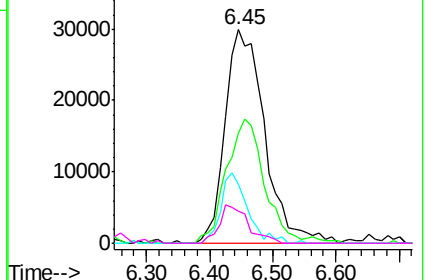
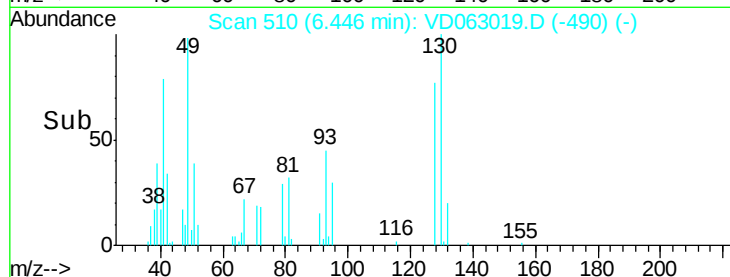


Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 67.00 (66.70 to 67.70): VDC

Ion 52.00 (51.70 to 52.70): VDC



#42

1,2-Dichloroethane

Concen: 20.965 ug/l

RT: 7.58 min Scan# 625

Delta R.T. -0.00 min

Lab File: VD063019.D

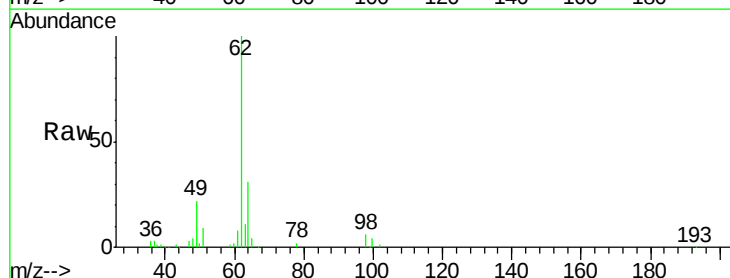
Acq: 3 Jul 2019 12:25

Tgt Ion: 62 Resp: 269369

Ion Ratio Lower Upper

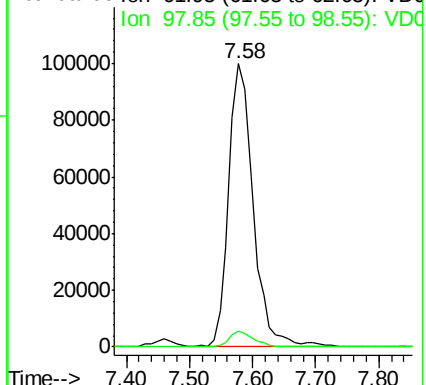
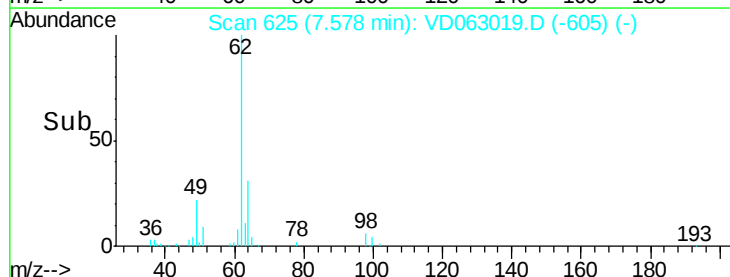
62 100

98 5.5 0.0 10.0



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 24.056 ug/l

RT: 9.24 min Scan# 794

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

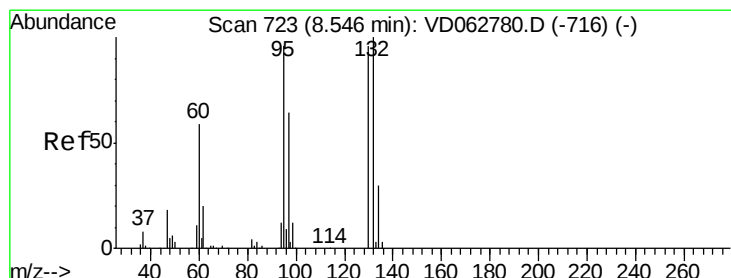
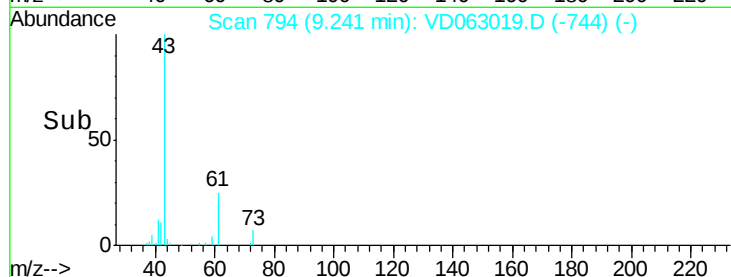
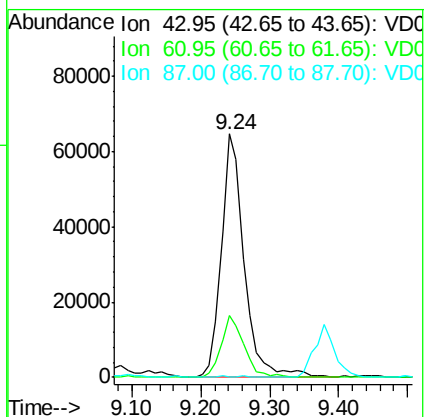
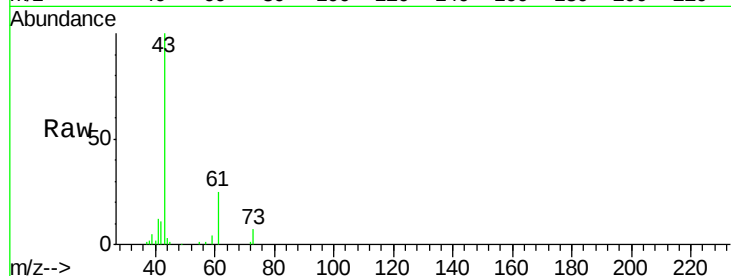
Tot Ion: 43 Resp: 147982

Ion Ratio Lower Upper

43 100

61 25.5 22.4 33.6

87 0.0 0.3 0.5#



#44

Trichloroethene

Concen: 21.654 ug/l

RT: 8.54 min Scan# 723

Delta R.T. -0.00 min

Lab File: VD063019.D

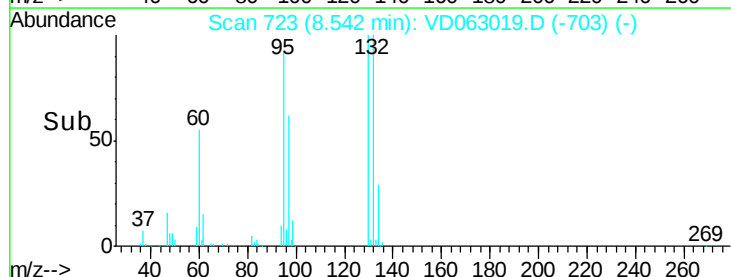
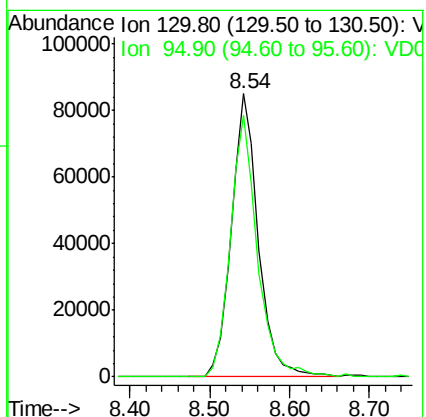
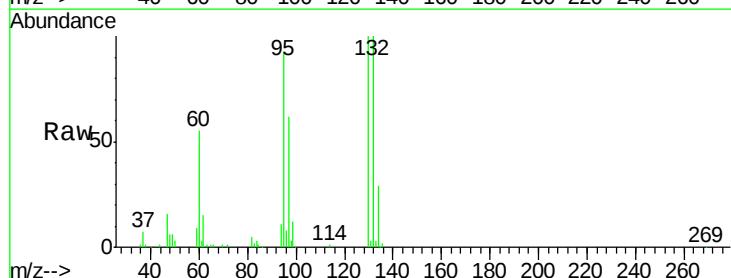
Acq: 3 Jul 2019 12:25

Tgt Ion: 130 Resp: 199943

Ion Ratio Lower Upper

130 100

95 92.6 0.0 201.6





#45

1,2-Dichloropropane

Concen: 19.914 ug/l

RT: 8.95 min Scan# 764

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

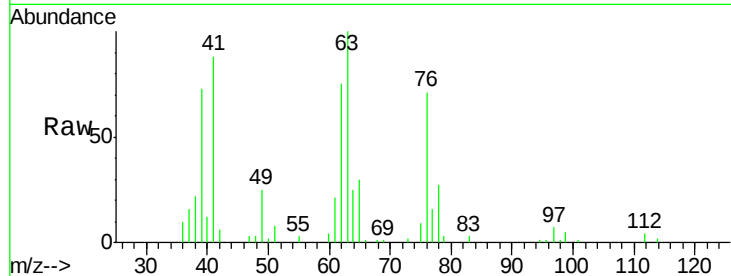
VD0703SBSD01

Tot Ion: 63 Resp: 116630

Ion Ratio Lower Upper

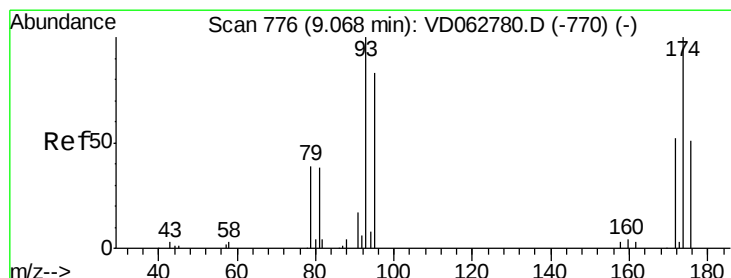
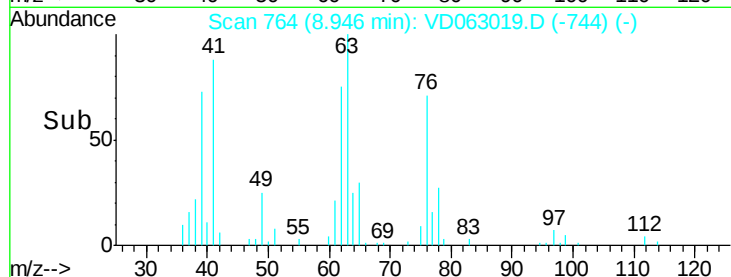
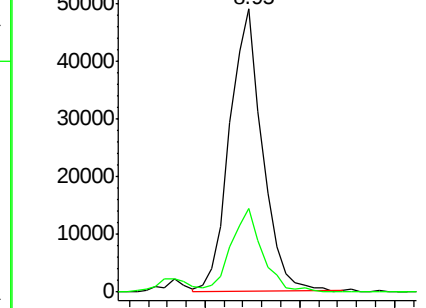
63 100

65 29.6 24.2 36.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC



#46

Dibromomethane

Concen: 21.536 ug/l

RT: 9.06 min Scan# 776

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

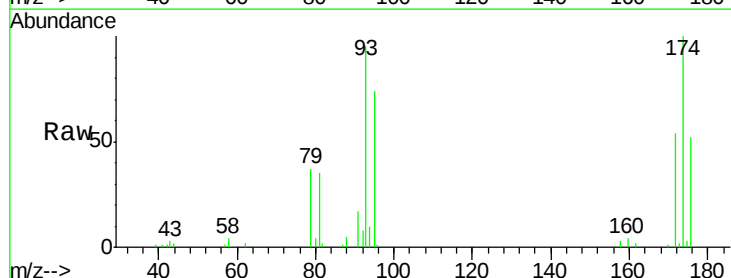
Tgt Ion: 93 Resp: 108346

Ion Ratio Lower Upper

93 100

95 77.3 66.6 100.0

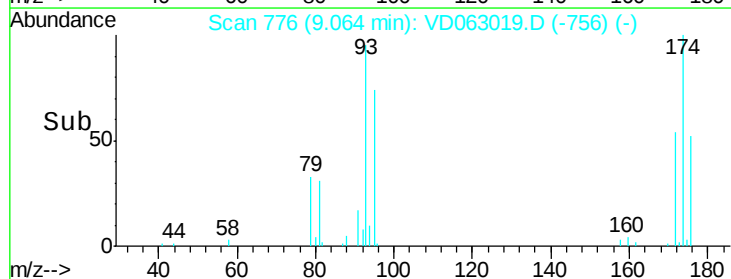
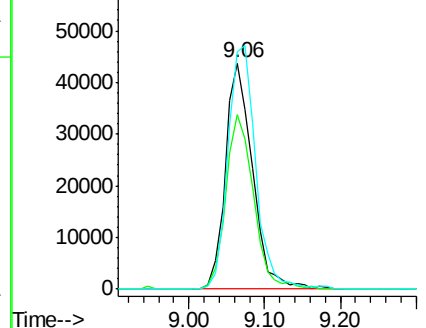
174 104.8 79.7 119.5

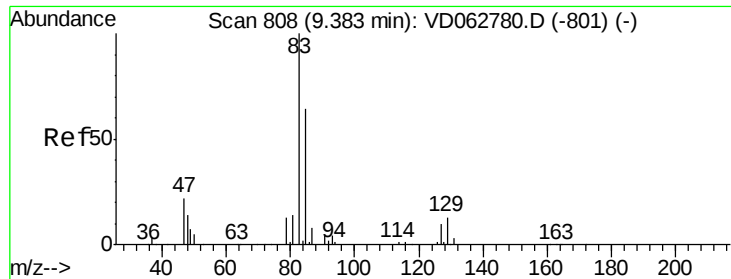


Abundance Ion 92.90 (92.60 to 93.60): VDC

Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC





#47

Bromodichloromethane

Concen: 21.515 ug/l

RT: 9.38 min Scan# 808

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBSD01

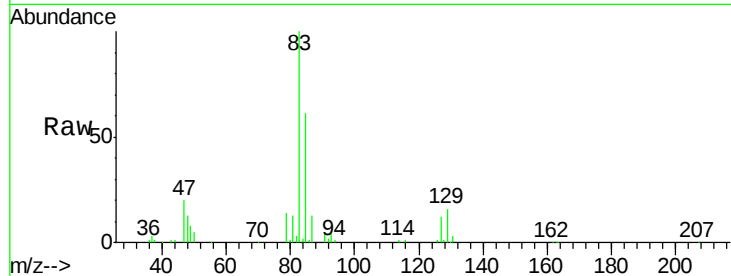
Tot Ion: 83 Resp: 281113

Ion Ratio Lower Upper

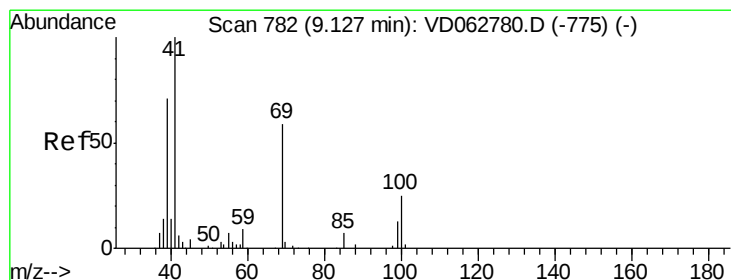
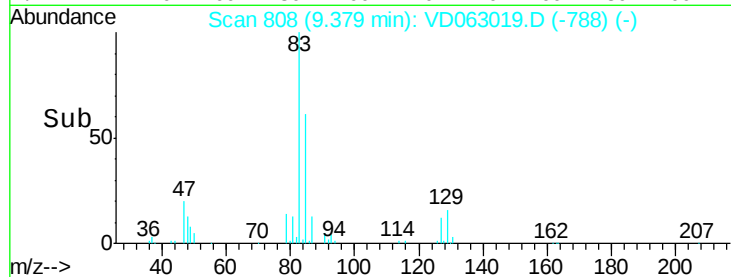
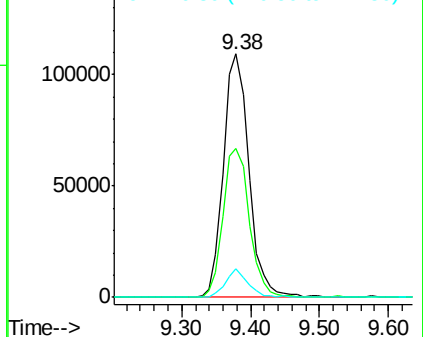
83 100

85 61.2 51.6 77.4

127 11.6 7.8 11.6#



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



#48

Methyl methacrylate

Concen: 19.705 ug/l

RT: 9.12 min Scan# 782

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

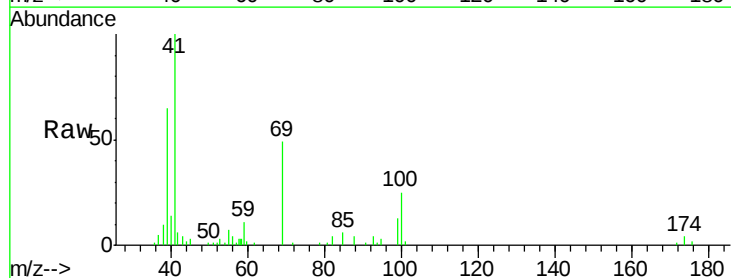
Tgt Ion: 41 Resp: 86138

Ion Ratio Lower Upper

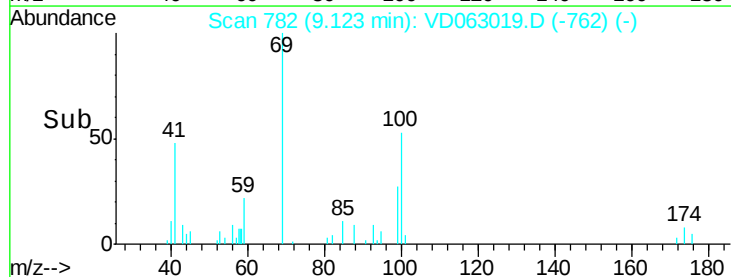
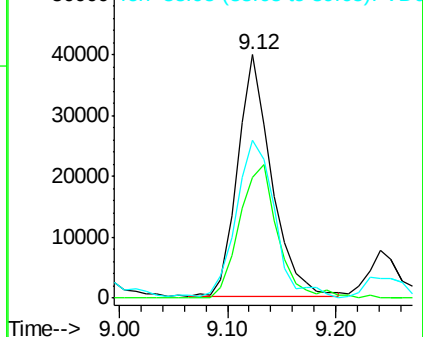
41 100

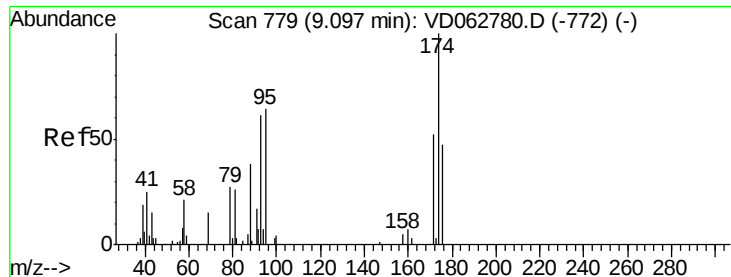
69 49.3 47.2 70.8

39 65.0 57.4 86.2



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





#49

1,4-Dioxane

Concen: 506.862 ug/l

RT: 9.07 min Scan# 777

Delta R.T. -0.02 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBSD01

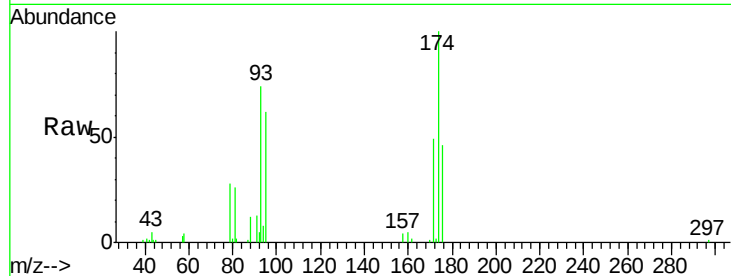
Tot Ion: 88 Resp: 18434

Ion Ratio Lower Upper

88 100

43 55.0 32.1 48.1#

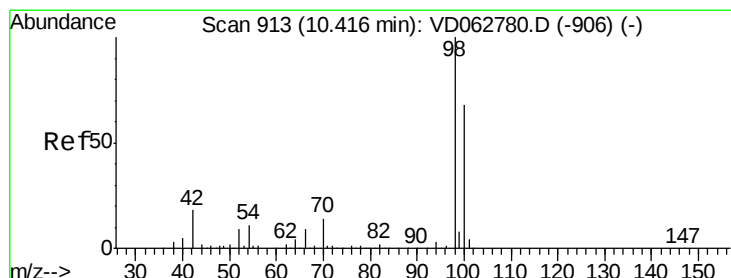
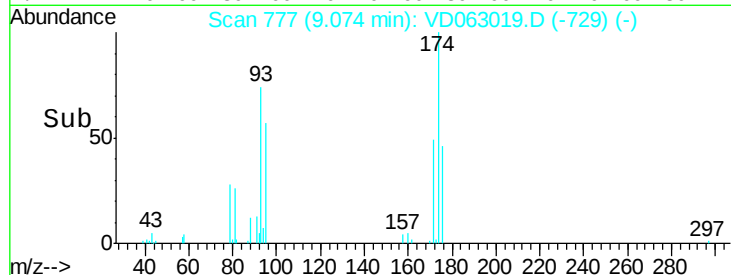
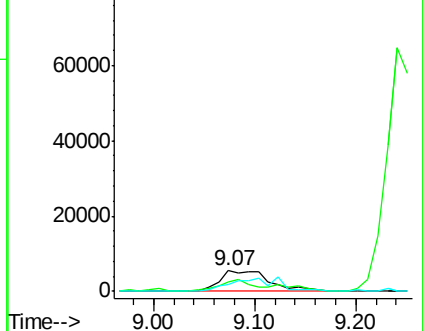
58 36.0 44.1 66.1#



Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC



#50

Toluene-d8

Concen: 51.212 ug/l

RT: 10.41 min Scan# 913

Delta R.T. -0.00 min

Lab File: VD063019.D

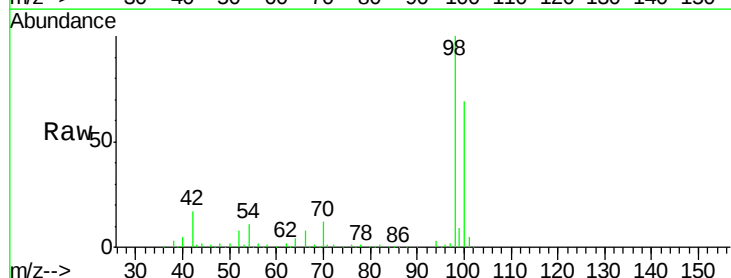
Acq: 3 Jul 2019 12:25

Tgt Ion: 98 Resp: 1164919

Ion Ratio Lower Upper

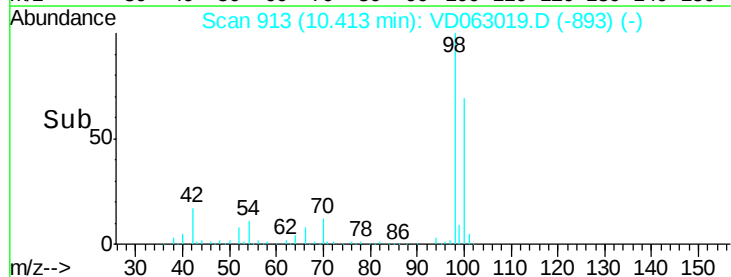
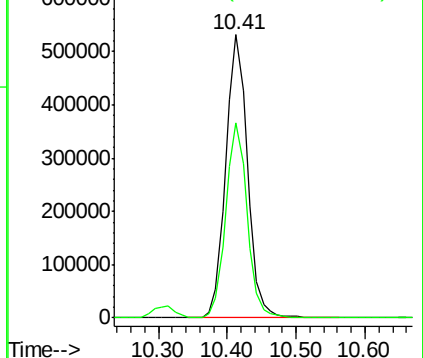
98 100

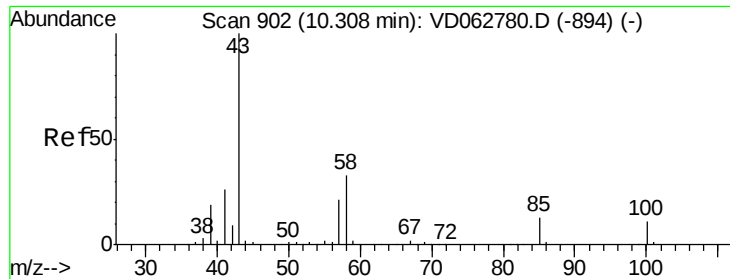
100 68.7 54.7 82.1



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: 111.450 ug/l

RT: 10.30 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

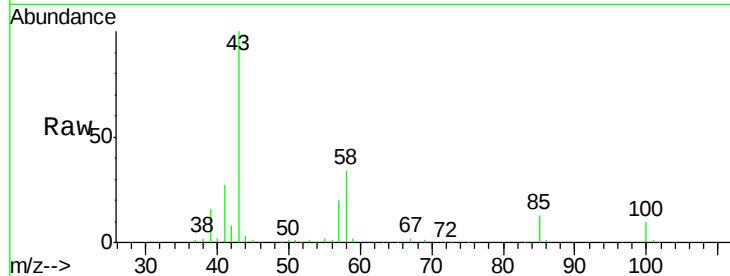
VD0703SBS01

Tot Ion: 43 Resp: 486074

Ion Ratio Lower Upper

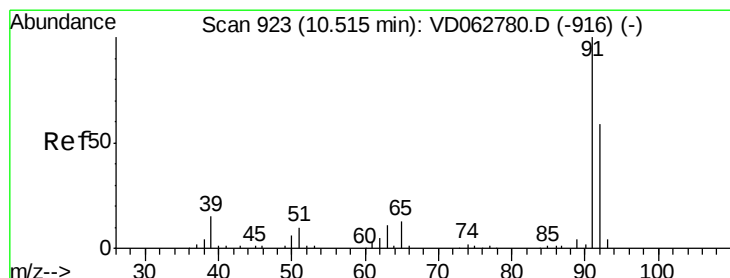
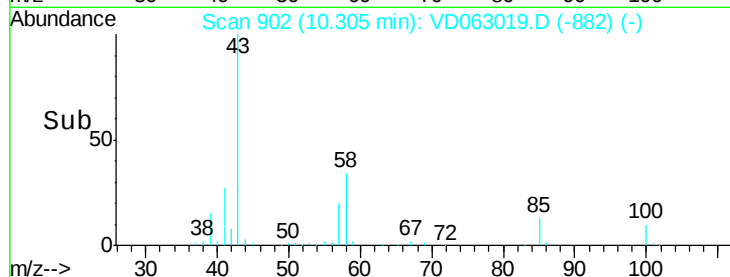
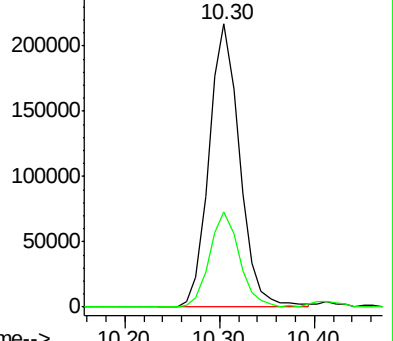
43 100

58 33.5 26.6 40.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 20.819 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.00 min

Lab File: VD063019.D

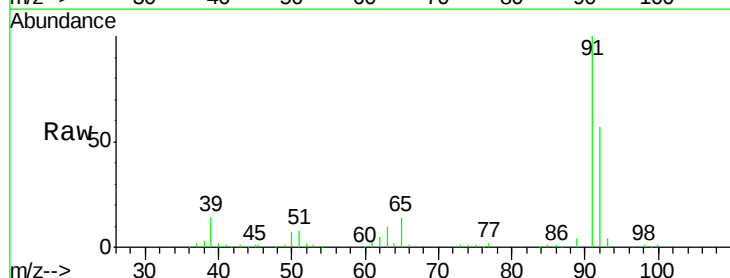
Acq: 3 Jul 2019 12:25

Tgt Ion: 92 Resp: 329615

Ion Ratio Lower Upper

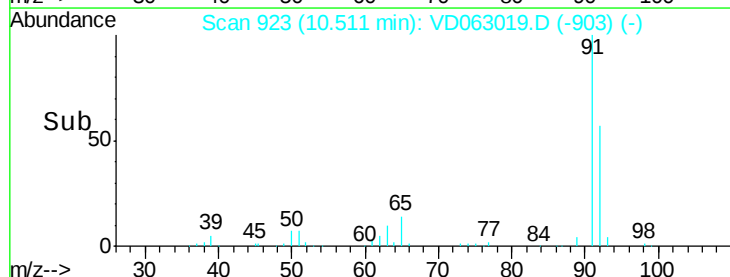
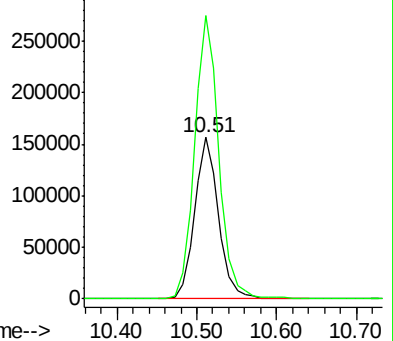
92 100

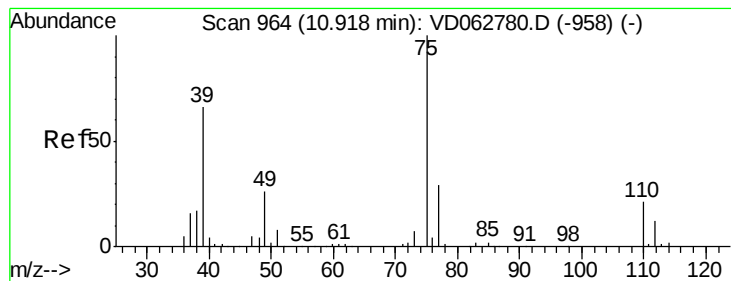
91 175.5 136.3 204.5



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 20.638 ug/l

RT: 10.91 min Scan# 964

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

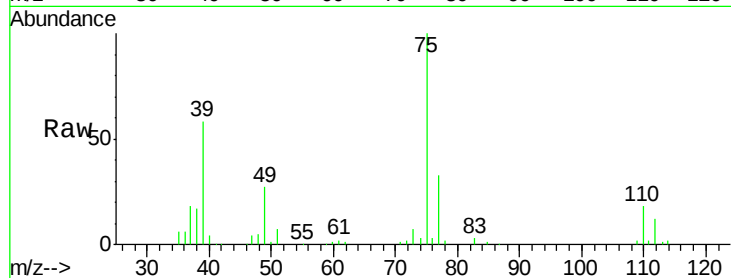
VD0703SBSD01

Tot Ion: 75 Resp: 220705

Ion Ratio Lower Upper

75 100

77 33.2 23.2 34.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

10.91

120000

100000

80000

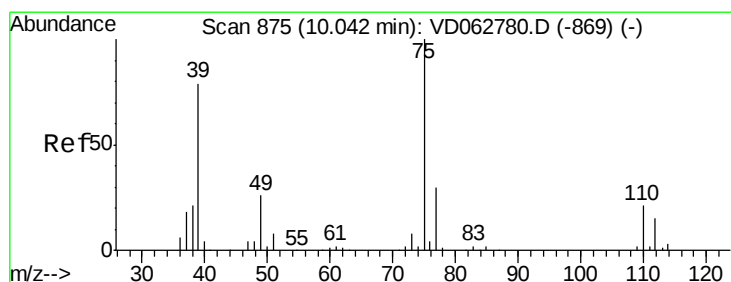
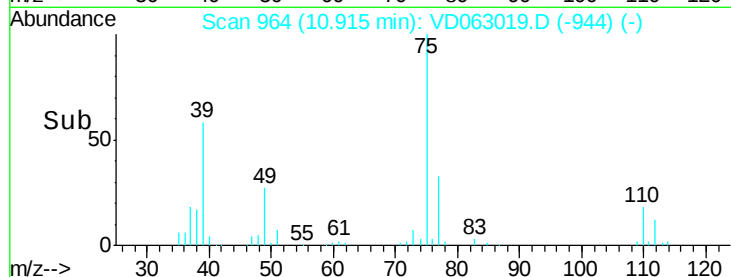
60000

40000

20000

0

Time--> 10.80 10.90 11.00



#54

cis-1,3-Dichloropropene

Concen: 20.311 ug/l

RT: 10.04 min Scan# 875

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

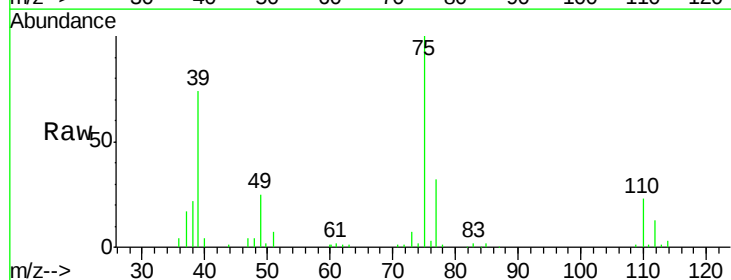
Tgt Ion: 75 Resp: 236088

Ion Ratio Lower Upper

75 100

77 31.5 24.2 36.2

39 73.7 63.5 95.3



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

10.04

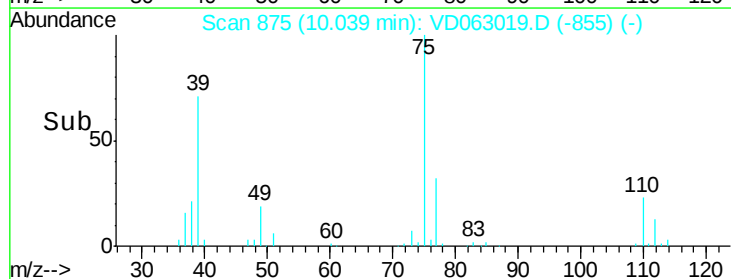
150000

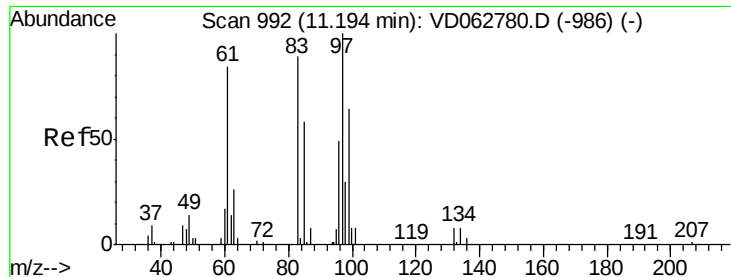
100000

50000

0

Time--> 9.90 10.00 10.10 10.20

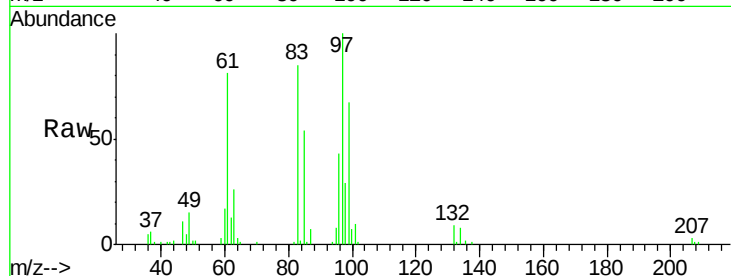




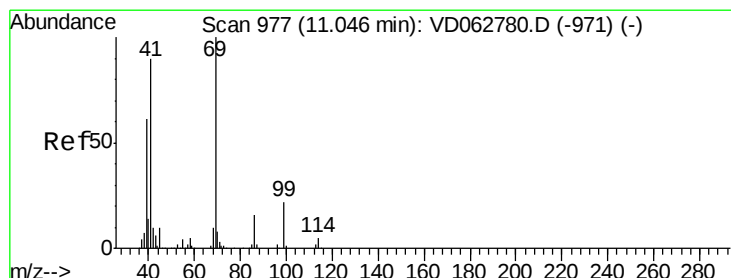
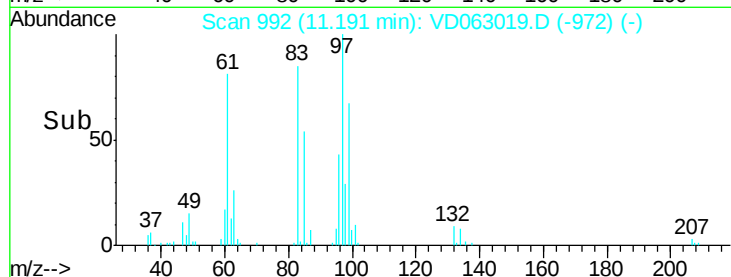
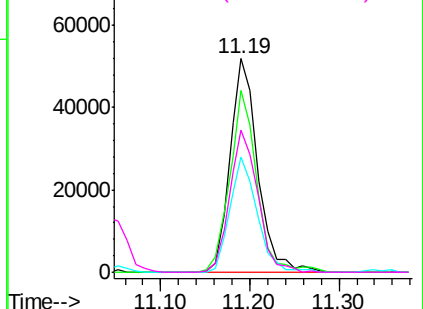
#55
 1,1,2-Trichloroethane
 Concen: 20.797 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBSD01

Tot Ion:	97	Resp:	113124
Ion	Ratio	Lower	Upper
97	100		
83	85.1	71.0	106.4
85	54.2	46.6	69.8
99	66.8	51.4	77.0

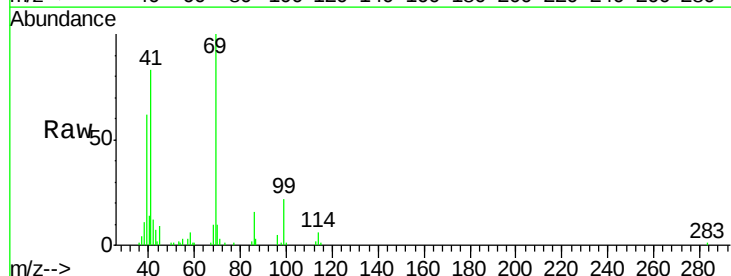


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

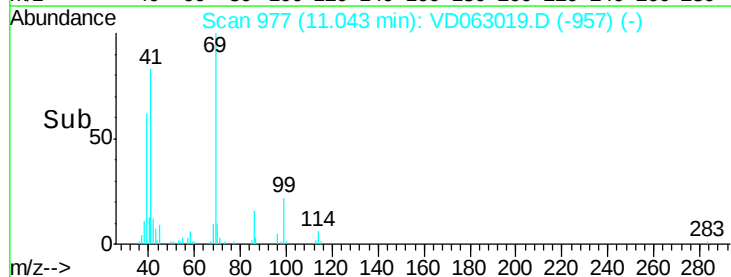
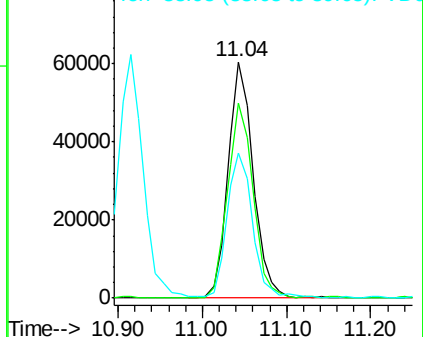


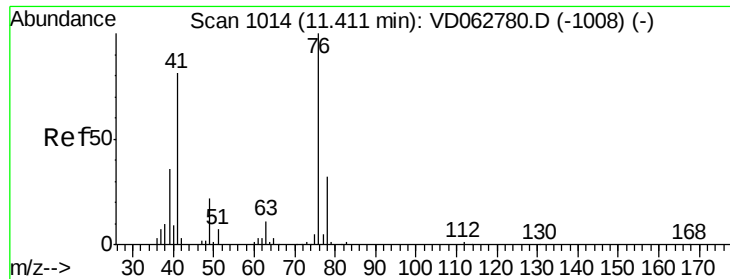
#56
 Ethyl methacrylate
 Concen: 21.485 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Tgt Ion:	69	Resp:	124890
Ion	Ratio	Lower	Upper
69	100		
41	82.7	72.0	108.0
39	61.5	49.5	74.3



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: 19.662 ug/l

RT: 11.41 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

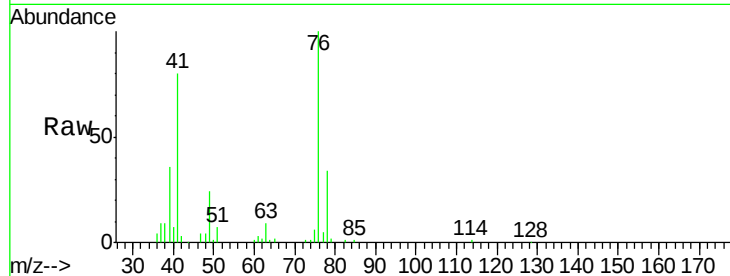
VD0703SBS01

Tot Ion: 76 Resp: 163753

Ion Ratio Lower Upper

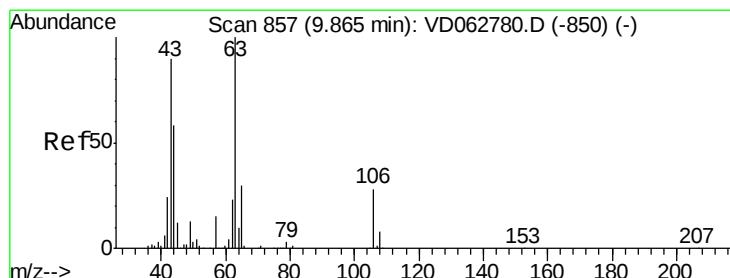
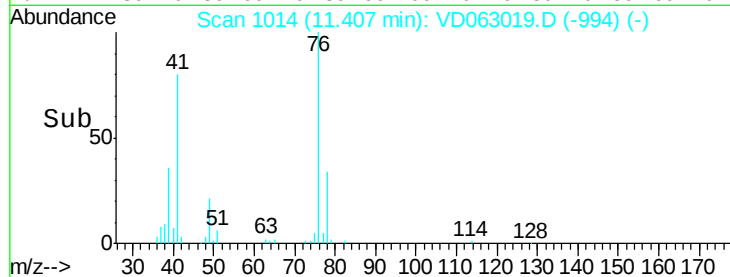
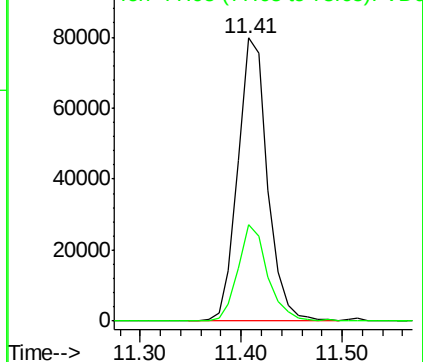
76 100

78 33.9 25.4 38.0



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 110.502 ug/l

RT: 9.86 min Scan# 857

Delta R.T. -0.00 min

Lab File: VD063019.D

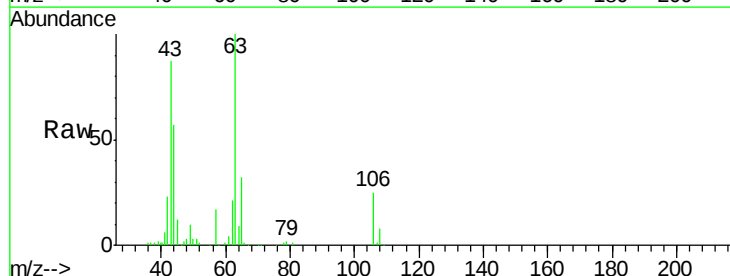
Acq: 3 Jul 2019 12:25

Tgt Ion: 63 Resp: 329770

Ion Ratio Lower Upper

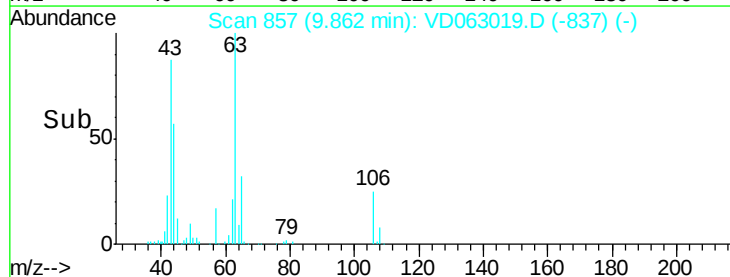
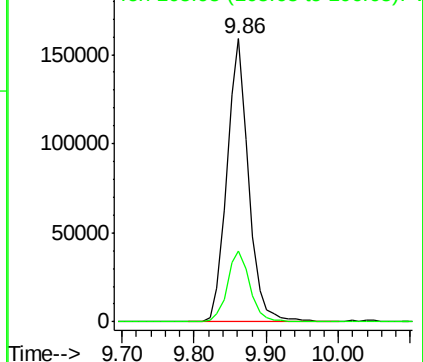
63 100

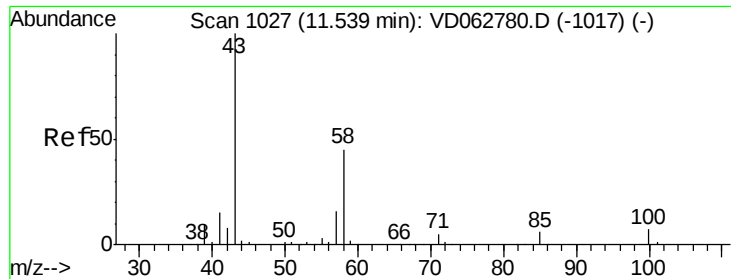
106 24.9 22.1 33.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

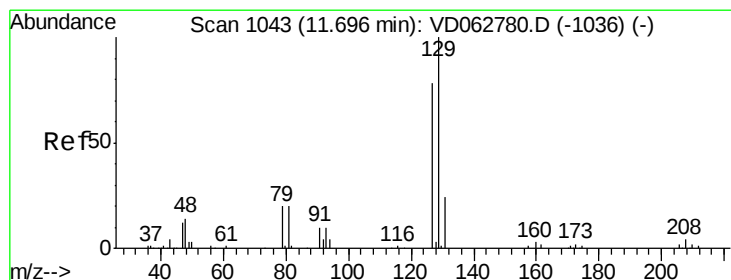
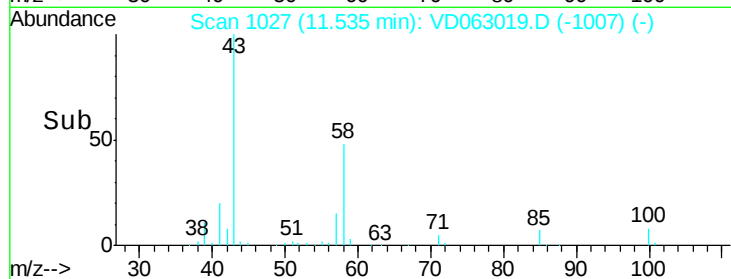
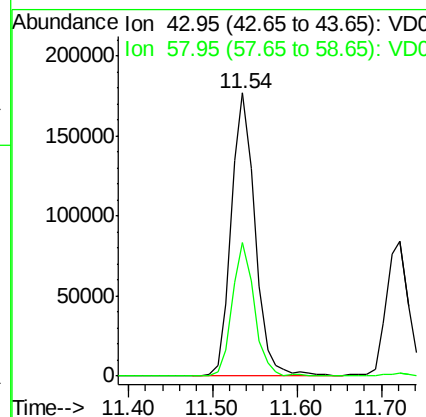
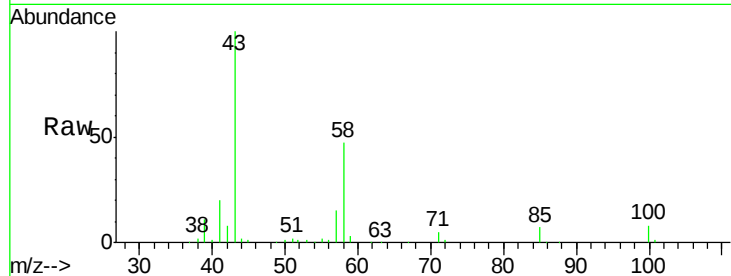




#59
2-Hexanone
Concen: 111.500 ug/l
RT: 11.54 min Scan# 1027
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

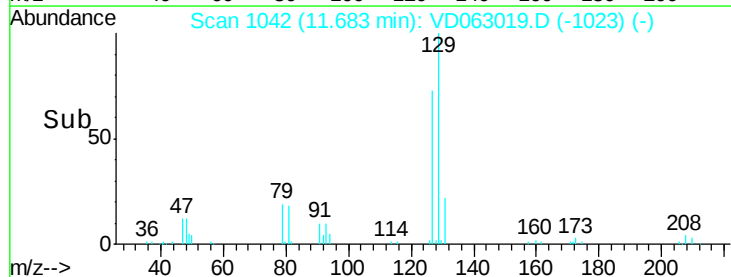
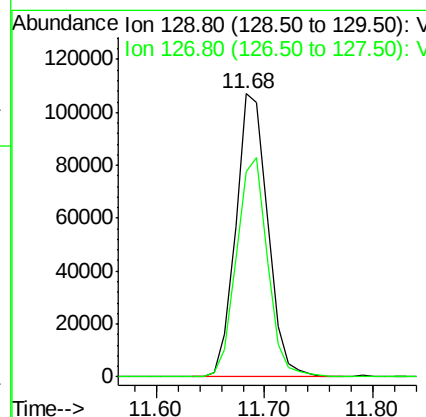
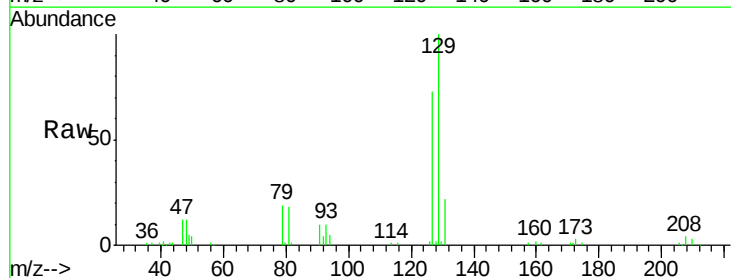
Instrument :
MSVOA_D
ClientSampleId :
VD0703SBSD01

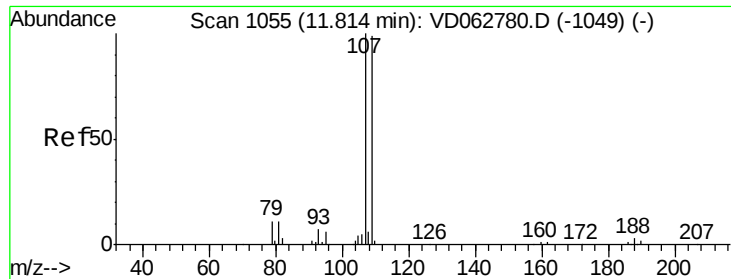
Tot Ion: 43 Resp: 346332
Ion Ratio Lower Upper
43 100
58 47.3 22.4 67.2



#60
Dibromochloromethane
Concen: 21.667 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.01 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Tgt Ion: 129 Resp: 219518
Ion Ratio Lower Upper
129 100
127 72.8 38.9 116.6





#61

1,2-Dibromoethane

Concen: 21.195 ug/l

RT: 11.81 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

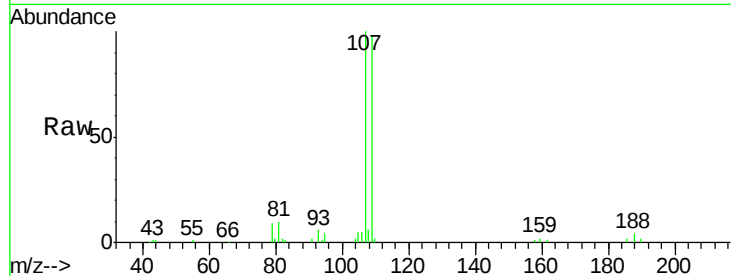
VD0703SBSD01

Tot Ion:107 Resp: 136158

Ion Ratio Lower Upper

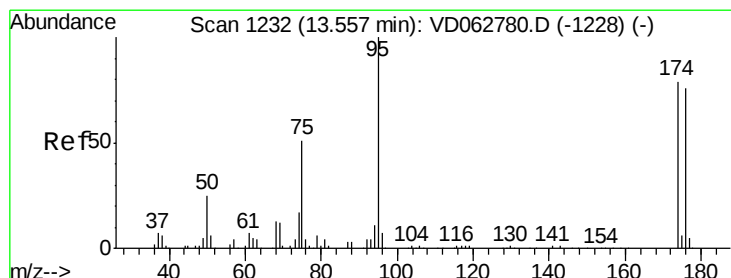
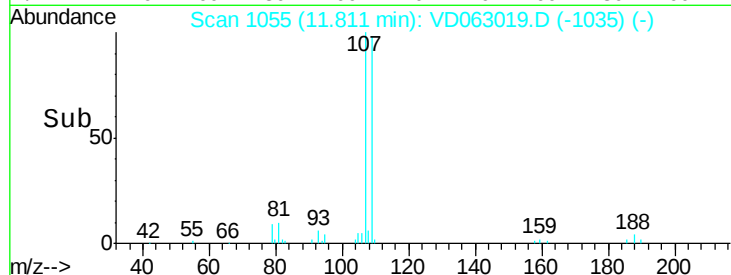
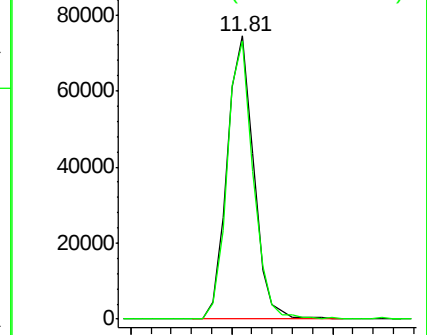
107 100

109 98.2 79.3 118.9



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V



#62

4-Bromofluorobenzene

Concen: 50.061 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

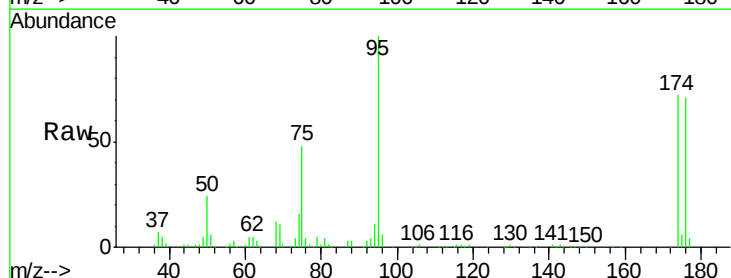
Tgt Ion: 95 Resp: 517791

Ion Ratio Lower Upper

95 100

174 71.8 0.0 158.0

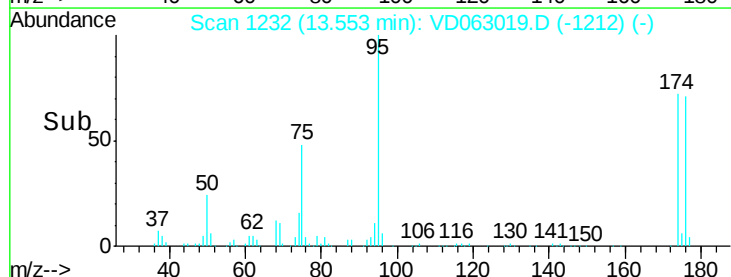
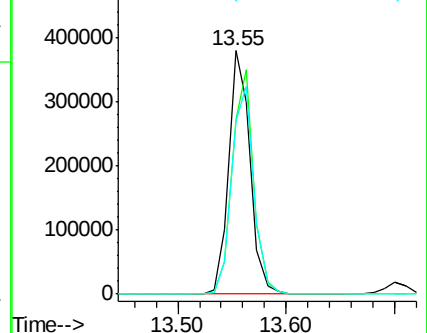
176 71.2 0.0 151.6

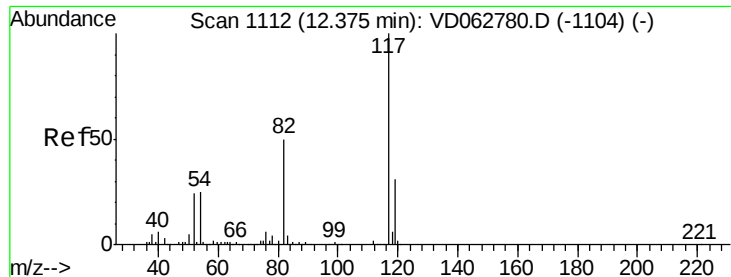


Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

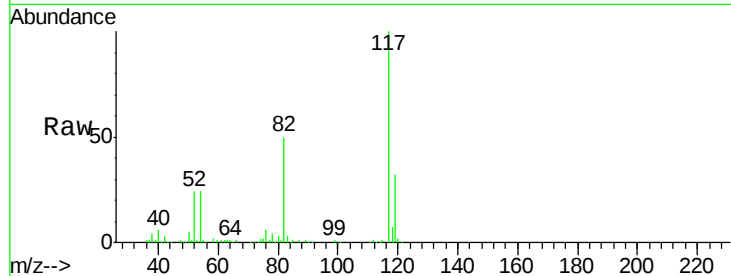




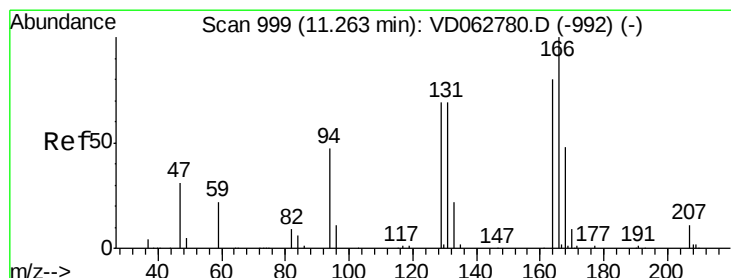
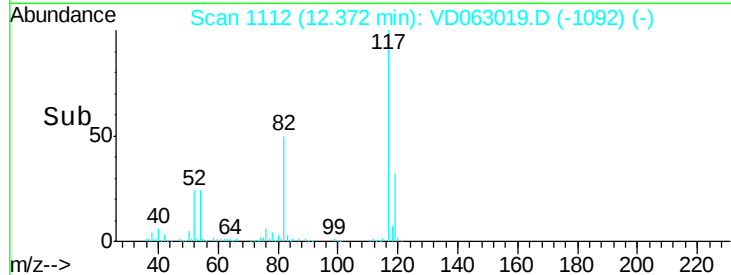
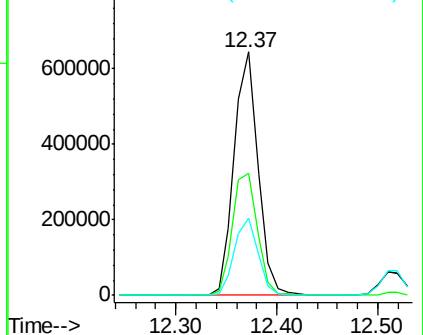
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.37 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBSD01

Tot Ion:117 Resp: 1064437
Ion Ratio Lower Upper
117 100
82 50.3 40.4 60.6
119 31.6 25.2 37.8

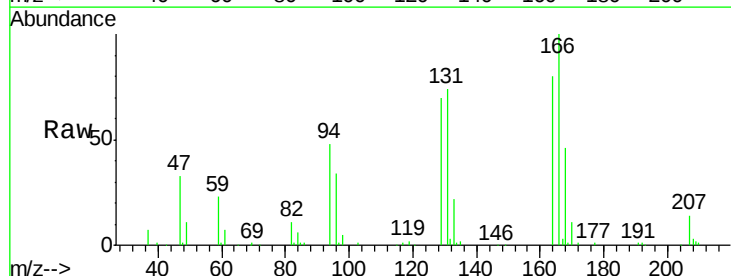


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

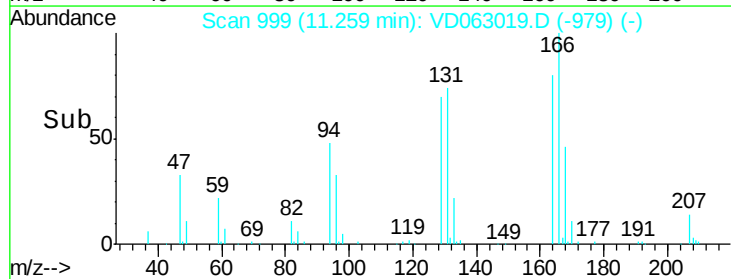
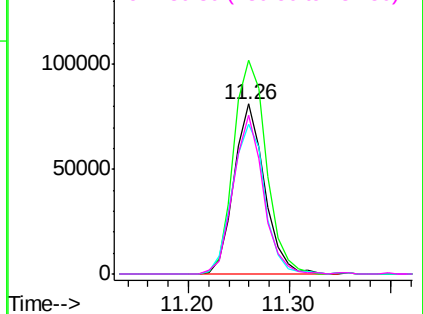


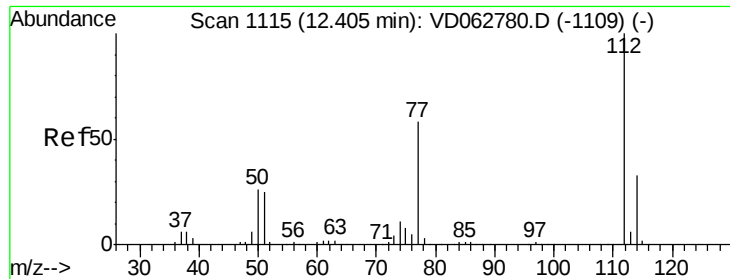
#64
Tetrachloroethene
Concen: 19.528 ug/l
RT: 11.26 min Scan# 999
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Tgt Ion:164 Resp: 171080
Ion Ratio Lower Upper
164 100
166 125.6 100.6 150.8
129 87.8 69.4 104.0
131 93.1 69.3 103.9



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





#65

Chlorobenzene

Concen: 20.313 ug/l

RT: 12.40 min Scan# 1115

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

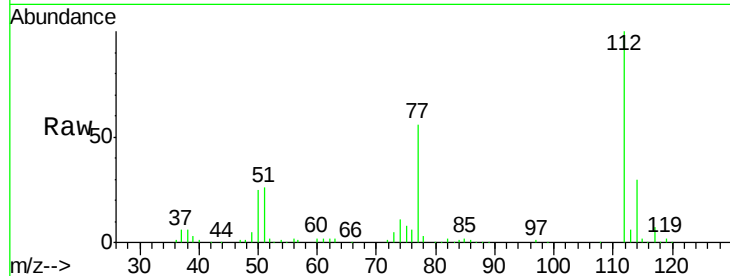
VD0703SBSD01

Tot Ion:112 Resp: 401282

Ion Ratio Lower Upper

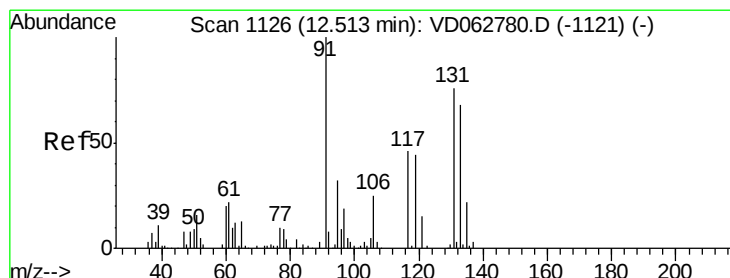
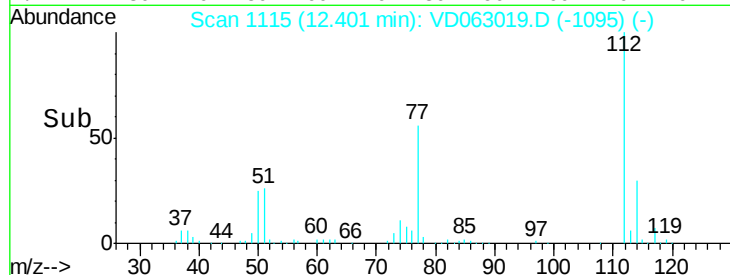
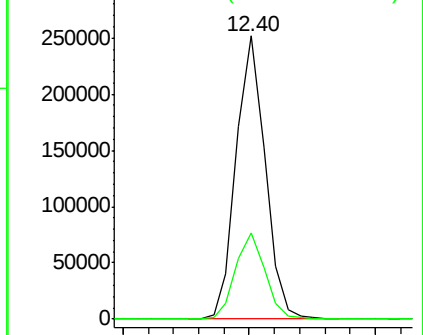
112 100

114 30.4 26.3 39.5



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 114.00 (113.70 to 114.70): V



#66

1,1,1,2-Tetrachloroethane

Concen: 19.403 ug/l

RT: 12.52 min Scan# 1127

Delta R.T. 0.01 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

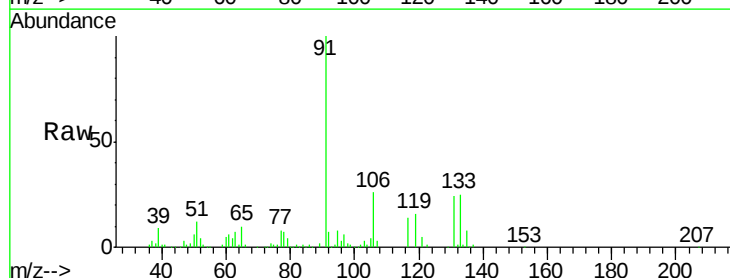
Tgt Ion:131 Resp: 179258

Ion Ratio Lower Upper

131 100

133 103.4 44.5 133.3

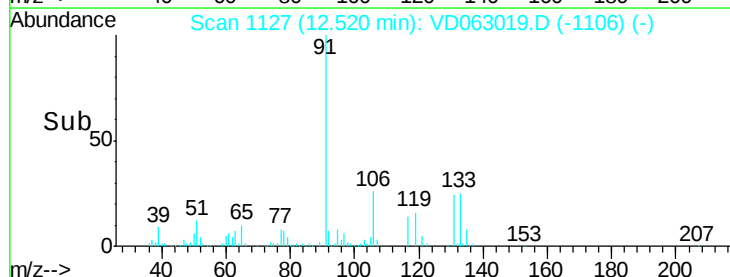
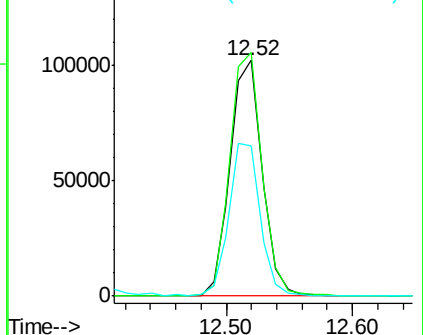
119 63.7 28.6 85.9



Abundance Ion 130.90 (130.60 to 131.60): V

Ion 132.90 (132.60 to 133.60): V

Ion 118.85 (118.55 to 119.55): V

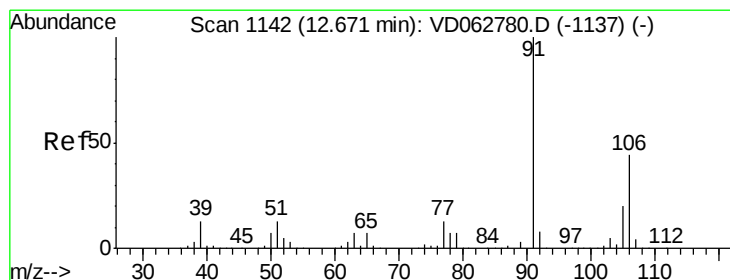
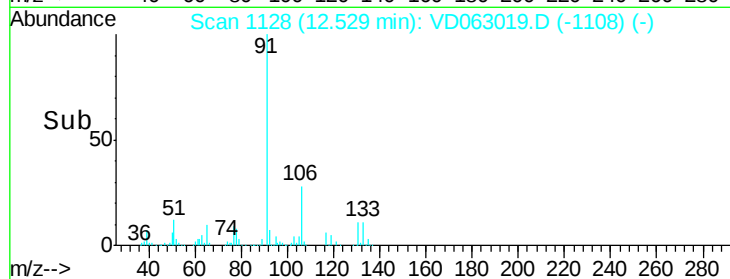
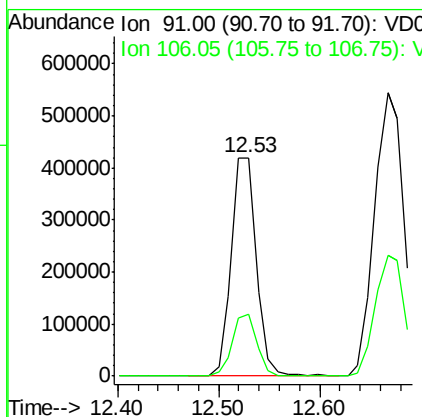
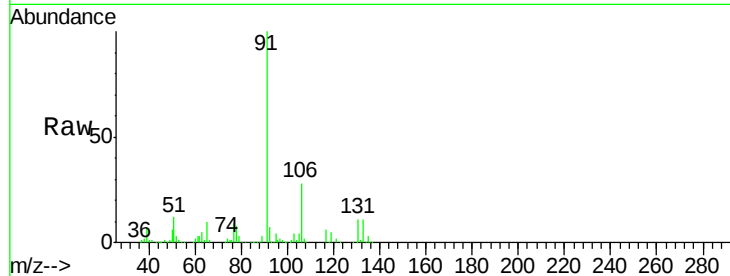




#67
Ethyl Benzene
Concen: 20.369 ug/l
RT: 12.53 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

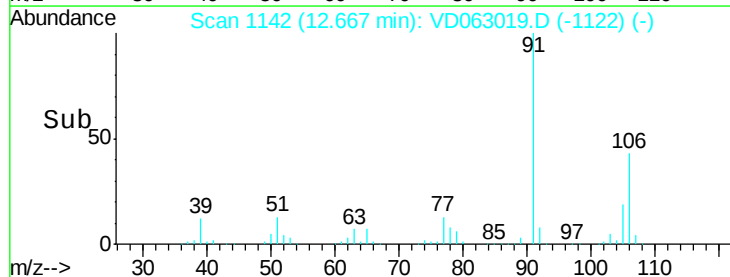
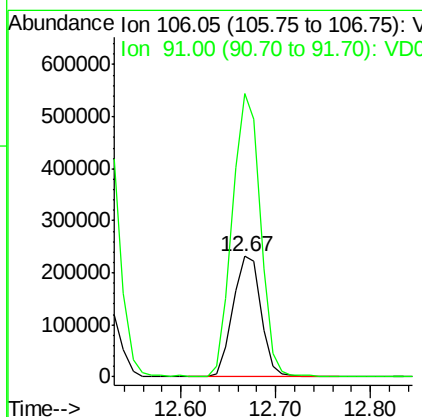
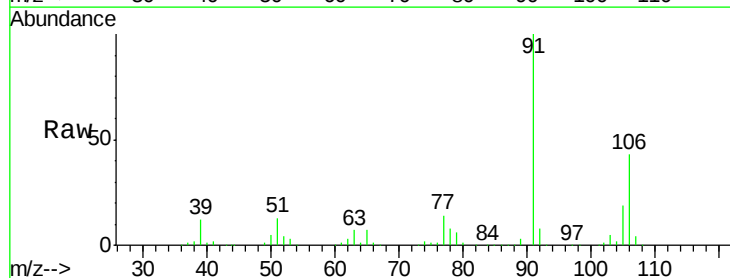
Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

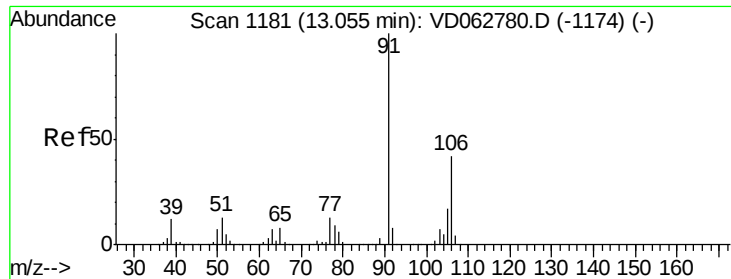
Tot Ion: 91 Resp: 722436
Ion Ratio Lower Upper
91 100
106 28.2 23.1 34.7



#68
m/p-Xylenes
Concen: 38.441 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Tgt Ion: 106 Resp: 474863
Ion Ratio Lower Upper
106 100
91 234.9 183.0 274.6

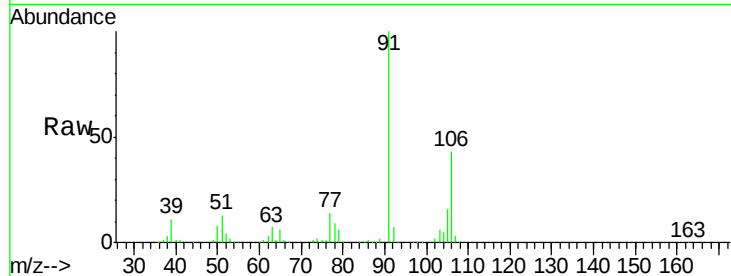




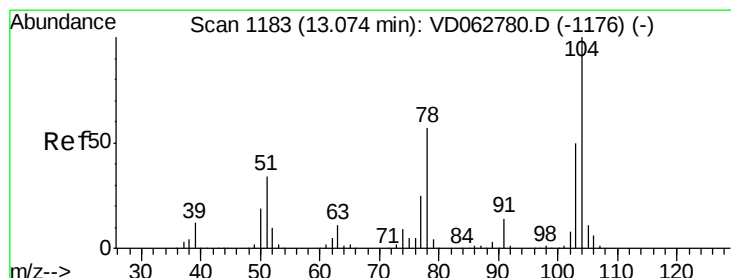
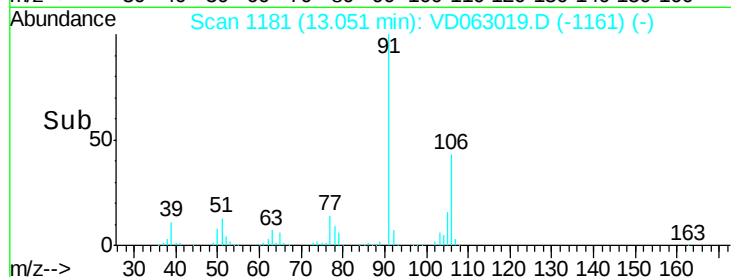
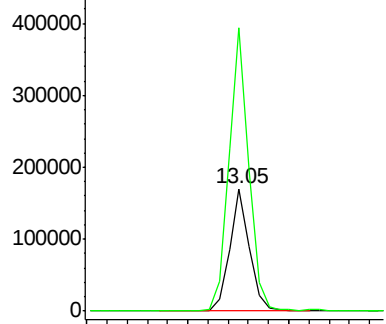
#69
o-Xylene
Concen: 20.626 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBS01

Tot Ion:106 Resp: 232923
Ion Ratio Lower Upper
106 100
91 231.3 117.9 353.6

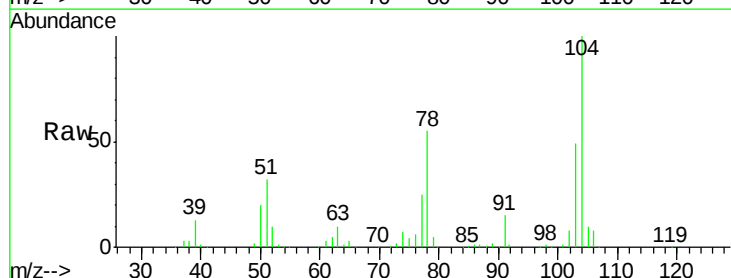


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

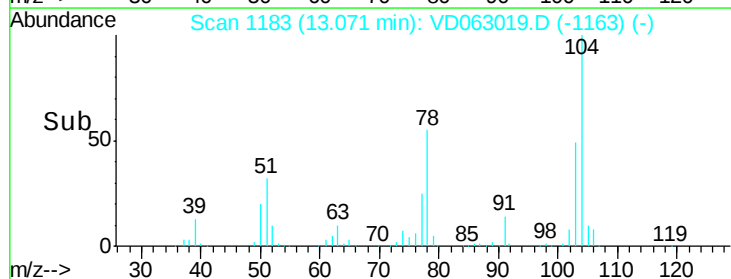
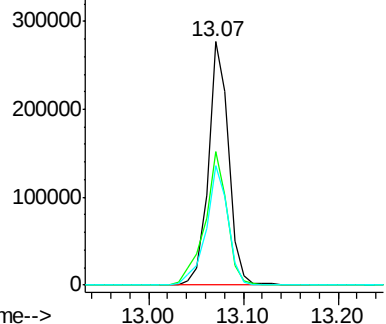


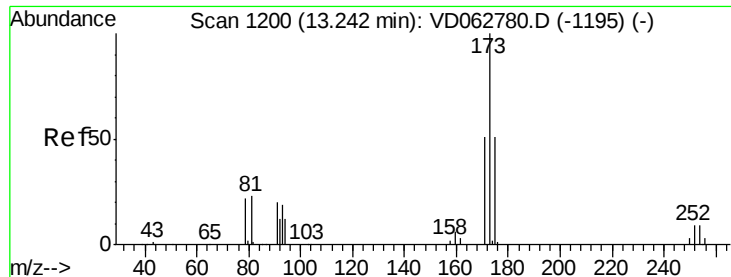
#70
Styrene
Concen: 20.620 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Tgt Ion:104 Resp: 409002
Ion Ratio Lower Upper
104 100
78 55.0 45.4 68.2
103 49.0 39.7 59.5



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





#71

Bromoform

Concen: 19.252 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBSD01

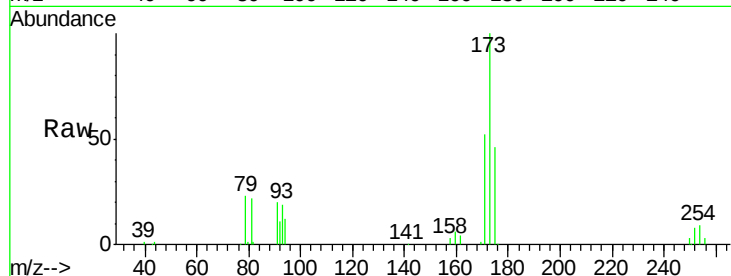
Tot Ion:173 Resp: 121859

Ion Ratio Lower Upper

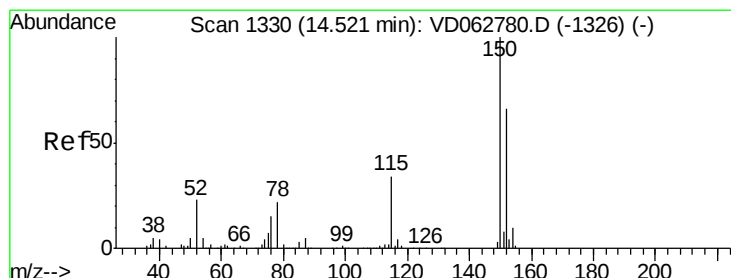
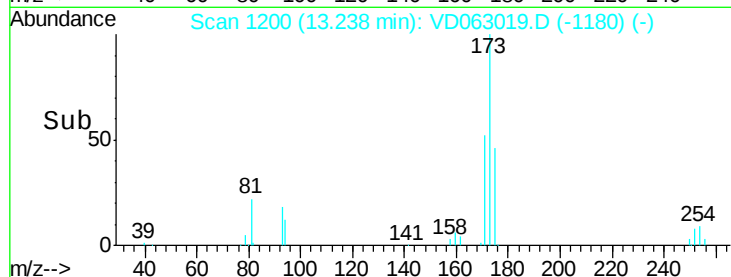
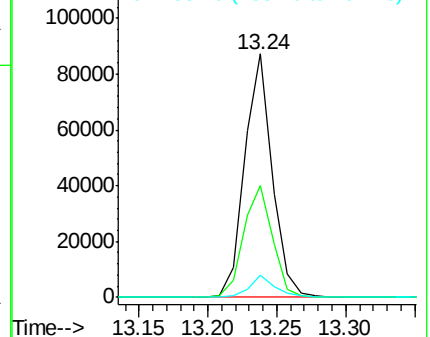
173 100

175 45.7 25.3 75.9

254 9.2 7.1 10.7



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: VD063019.D

Acq: 3 Jul 2019 12:25

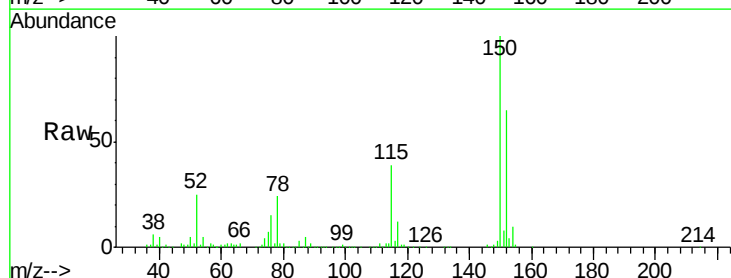
Tgt Ion:152 Resp: 549041

Ion Ratio Lower Upper

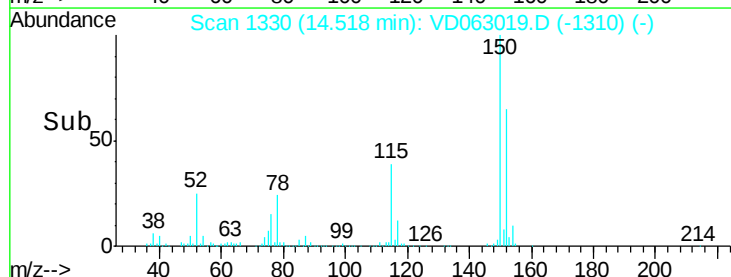
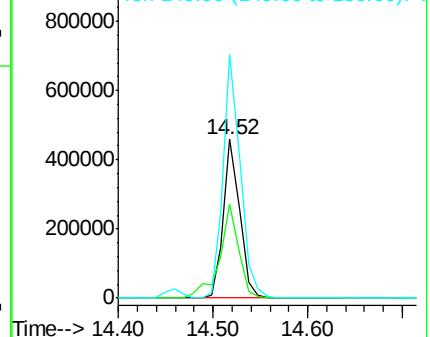
152 100

115 59.1 29.2 87.6

150 153.4 0.0 305.8



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





#73

Isopropylbenzene

Concen: 20.278 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

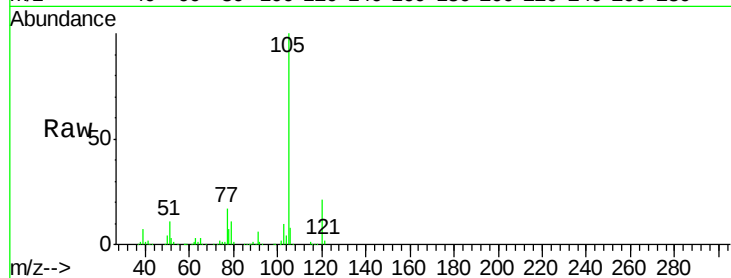
VD0703SBSD01

Tot Ion:105 Resp: 713841

Ion Ratio Lower Upper

105 100

120 21.0 11.6 34.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.41

500000

400000

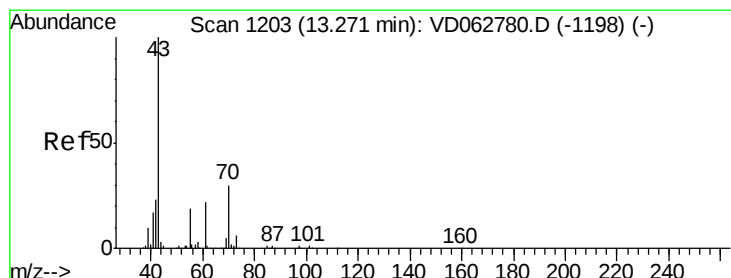
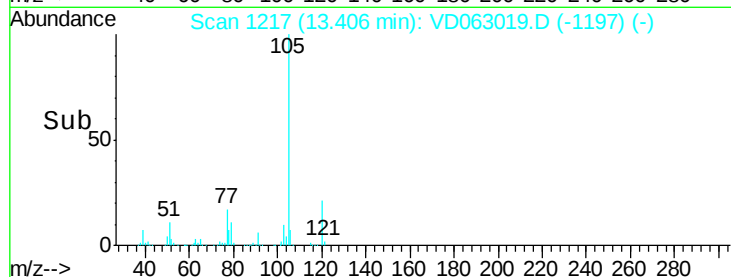
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 21.999 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Tgt Ion: 43 Resp: 188071

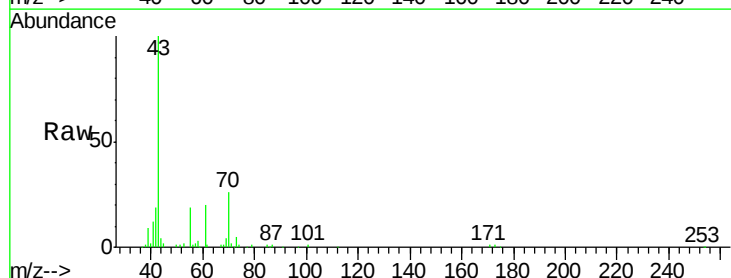
Ion Ratio Lower Upper

43 100

70 26.1 24.4 36.6

55 19.1 15.2 22.8

61 20.3 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V

13.27

200000

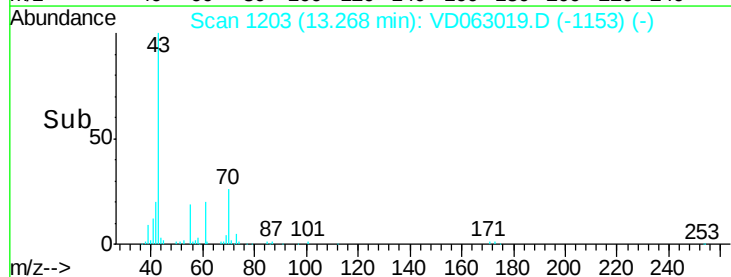
150000

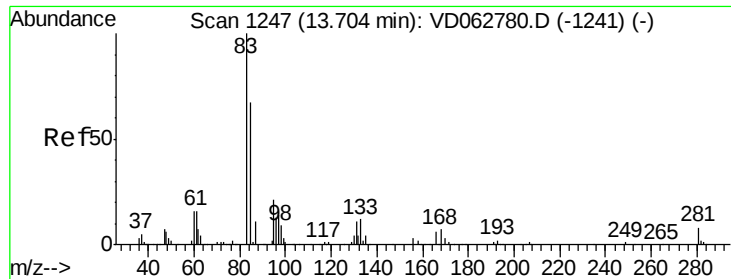
100000

50000

0

Time--> 13.20 13.30 13.40





#75

1,1,2,2-Tetrachloroethane

Concen: 22.678 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

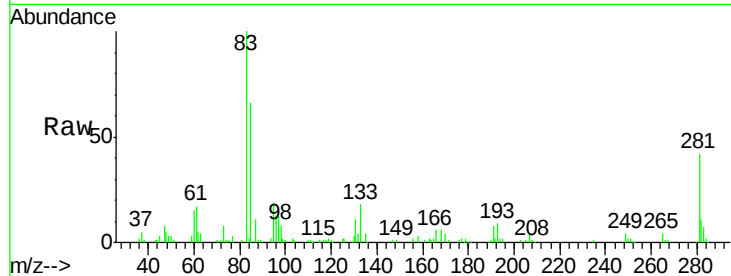
Tot Ion: 83 Resp: 130078

Ion Ratio Lower Upper

83 100

131 11.2 5.3 16.1

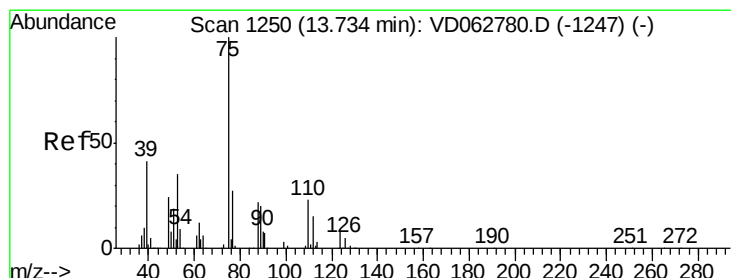
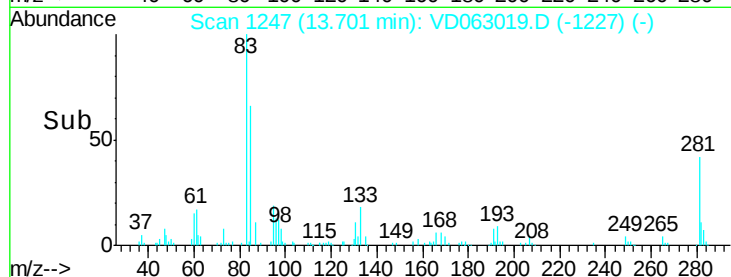
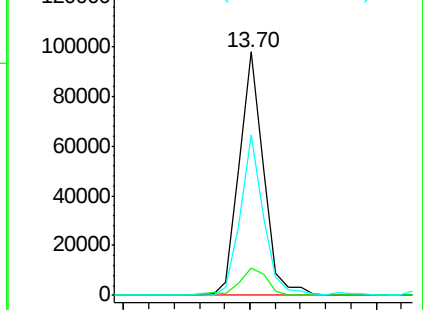
85 66.0 33.7 101.1



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 21.853 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VD063019.D

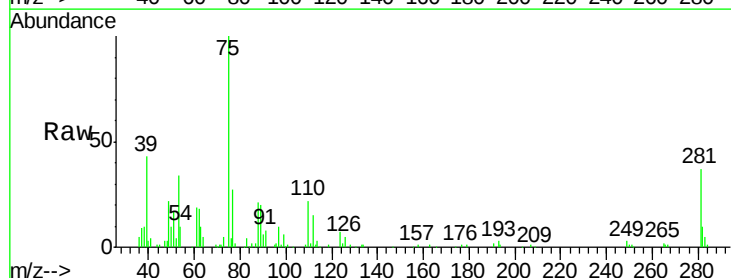
Acq: 3 Jul 2019 12:25

Tgt Ion: 75 Resp: 138511

Ion Ratio Lower Upper

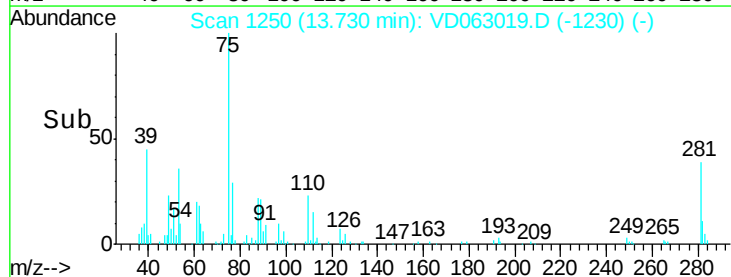
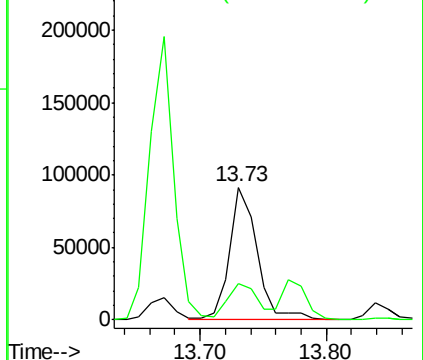
75 100

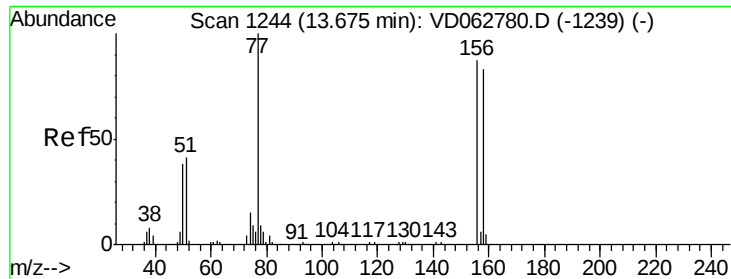
77 27.3 15.0 45.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 21.040 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBS01

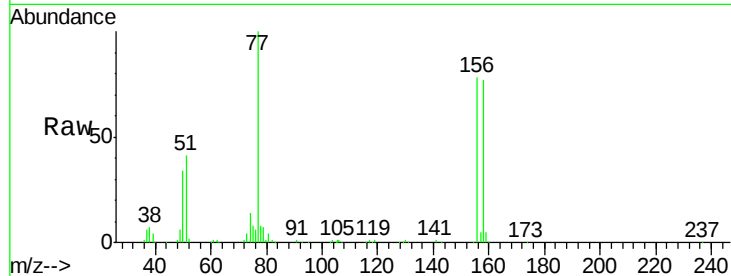
Tot Ion:156 Resp: 199226

Ion Ratio Lower Upper

156 100

77 127.7 57.7 173.1

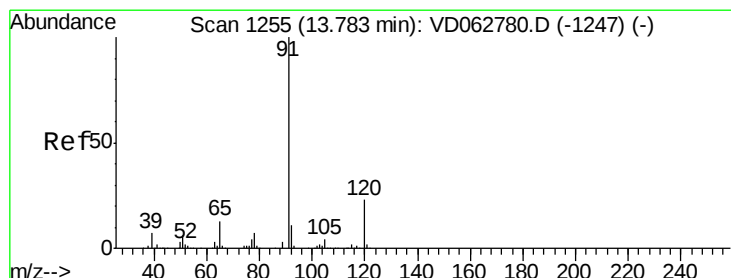
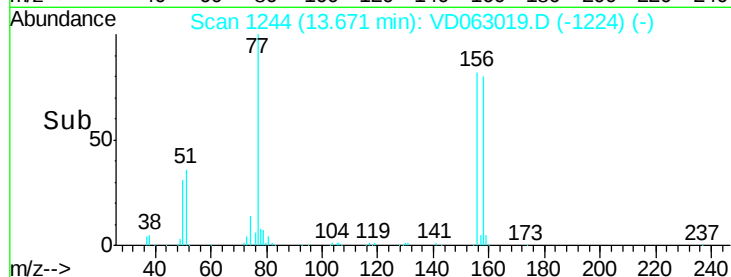
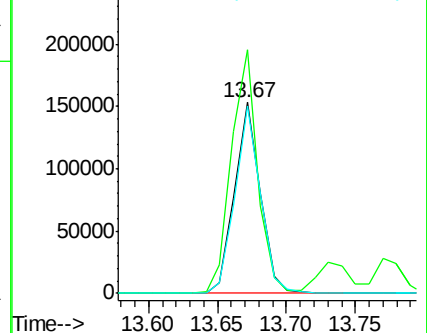
158 98.0 47.7 143.1



Abundance Ion 155.90 (155.60 to 156.60): V

Ion 76.95 (76.65 to 77.65): V

Ion 157.85 (157.55 to 158.55): V



#78

n-propylbenzene

Concen: 21.985 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VD063019.D

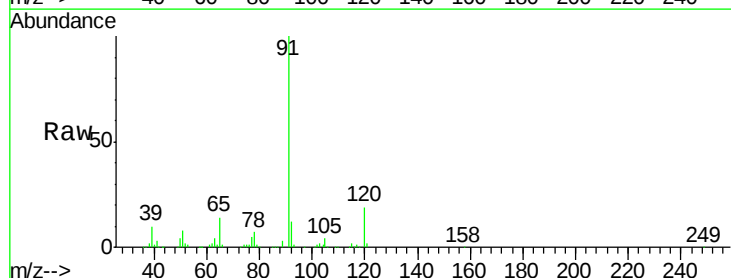
Acq: 3 Jul 2019 12:25

Tgt Ion: 91 Resp: 900807

Ion Ratio Lower Upper

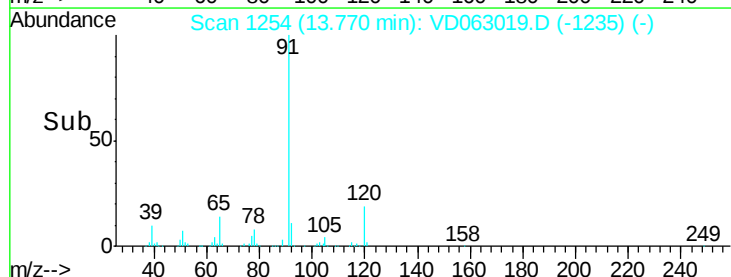
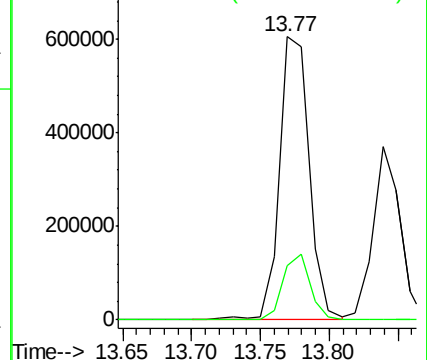
91 100

120 19.1 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

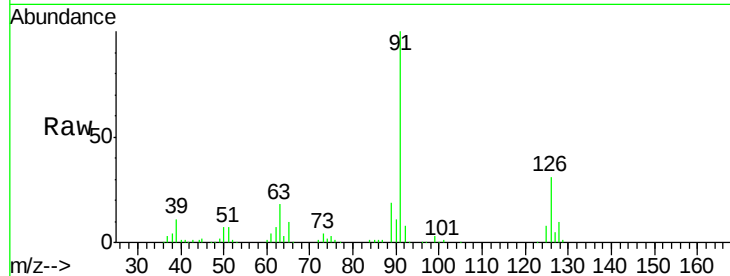




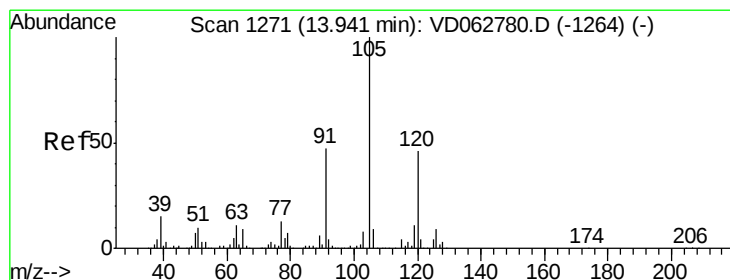
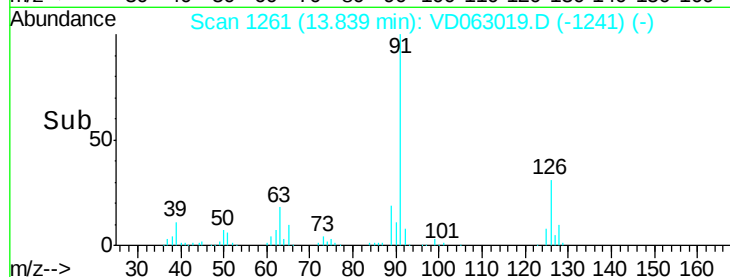
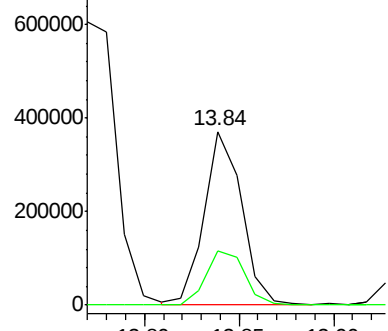
#79
 2-Chlorotoluene
 Concen: 21.647 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBSD01

Tot Ion: 91 Resp: 506882
 Ion Ratio Lower Upper
 91 100
 126 31.4 15.7 47.1

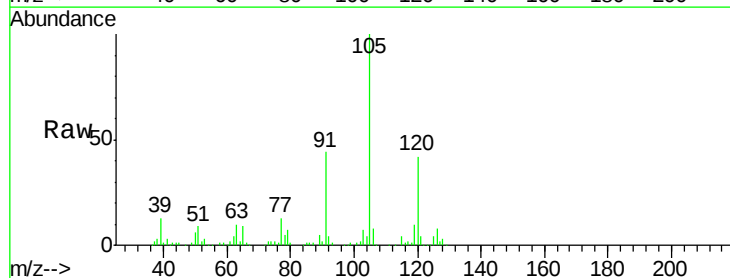


Abundance Ion 91.00 (90.70 to 91.70): VD062780.D (-1258) (-)
 Ion 125.95 (125.65 to 126.65): VD062780.D (-1258) (-)

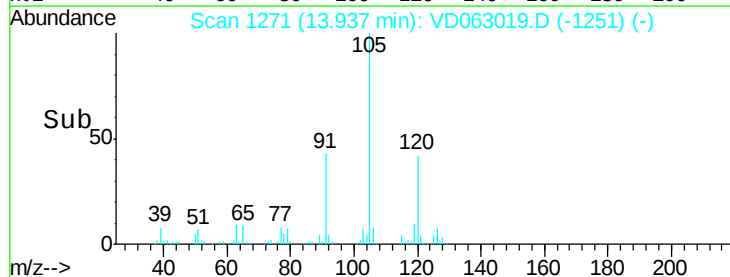
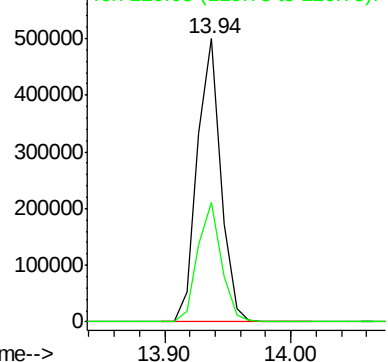


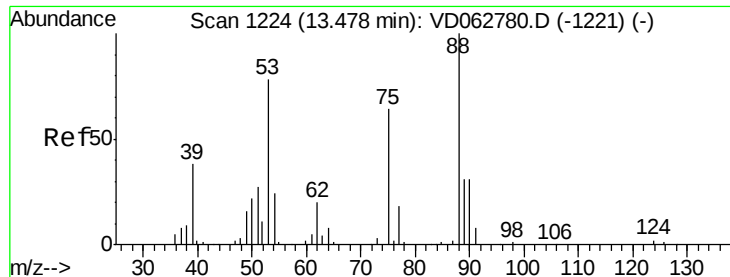
#80
 1,3,5-Trimethylbenzene
 Concen: 21.786 ug/l
 RT: 13.94 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Tgt Ion:105 Resp: 644215
 Ion Ratio Lower Upper
 105 100
 120 42.4 23.1 69.2



Abundance Ion 105.05 (104.75 to 105.75): VD062780.D (-1264) (-)
 Ion 120.05 (119.75 to 120.75): VD062780.D (-1264) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 20.781 ug/l

RT: 13.47 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

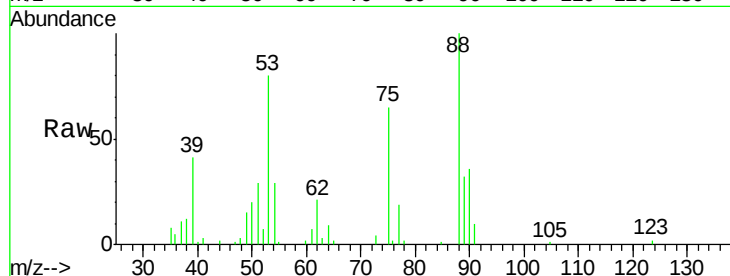
MSVOA_D

ClientSampleId :

VD0703SBSD01

Tot Ion: 75 Resp: 34520

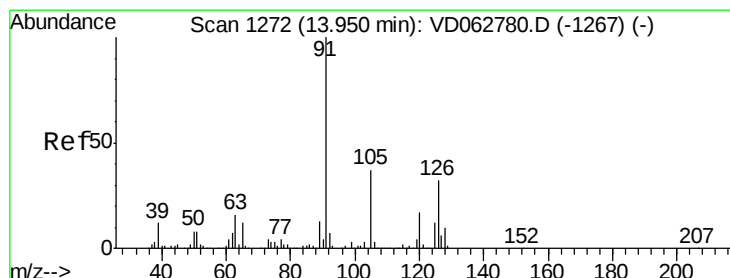
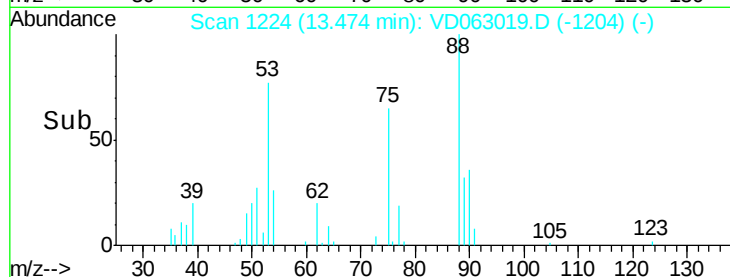
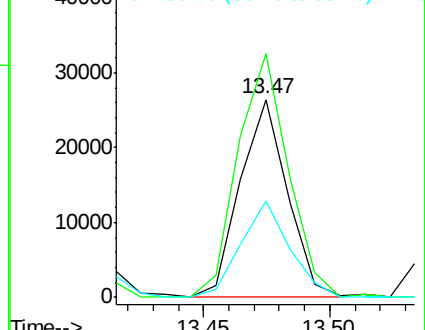
Ion	Ratio	Lower	Upper
75	100		
53	123.2	97.8	146.8
89	49.1	39.4	59.2



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC



#82

4-Chlorotoluene

Concen: 22.440 ug/l

RT: 13.95 min Scan# 1272

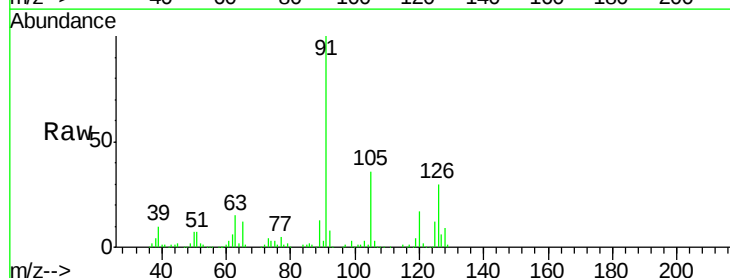
Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

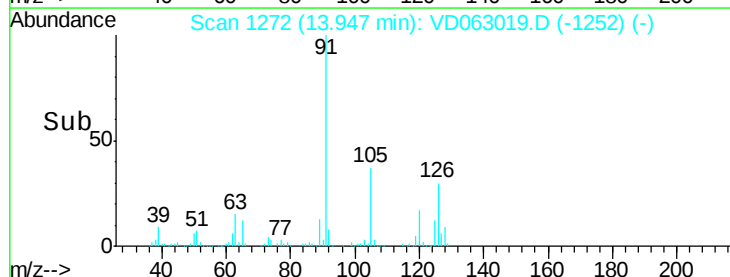
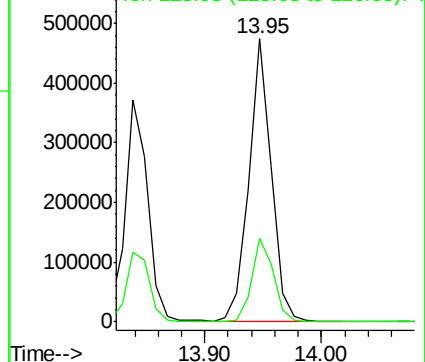
Tgt Ion: 91 Resp: 632593

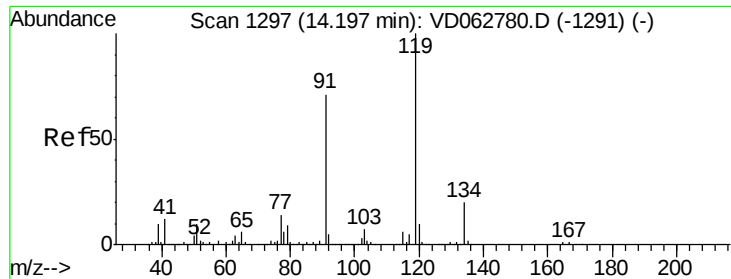
Ion	Ratio	Lower	Upper
91	100		
126	29.5	16.0	47.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

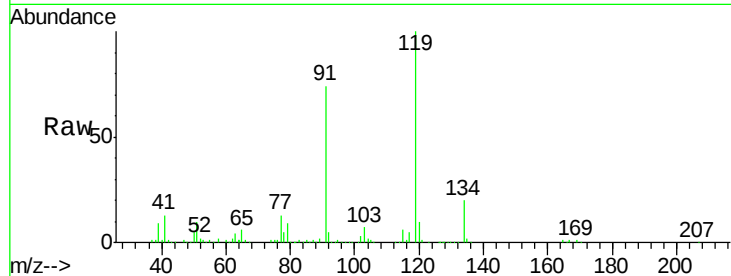




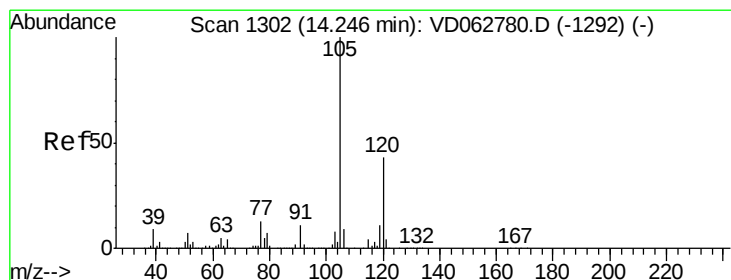
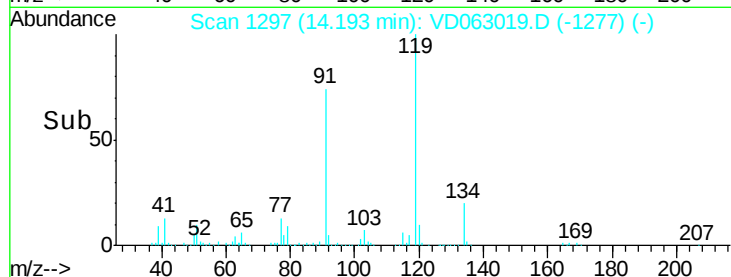
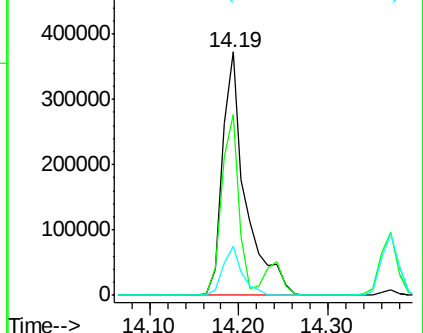
#83
tert-Butylbenzene
Concen: 20.487 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Instrument :
MSVOA_D
ClientSampleId :
VD0703SBSD01

Tot Ion:119 Resp: 675260
Ion Ratio Lower Upper
119 100
91 74.1 35.5 106.5
134 20.3 10.2 30.6

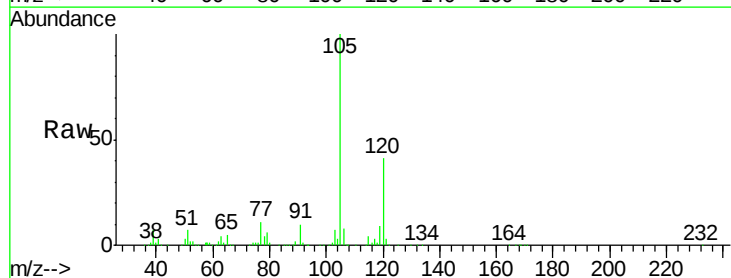


Abundance Ion 119.05 (118.75 to 119.75): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

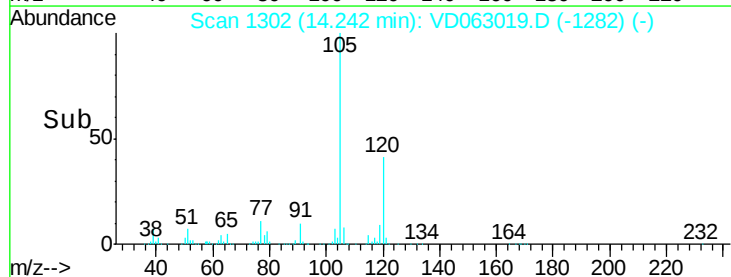
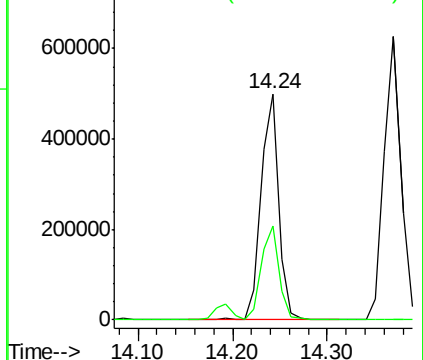


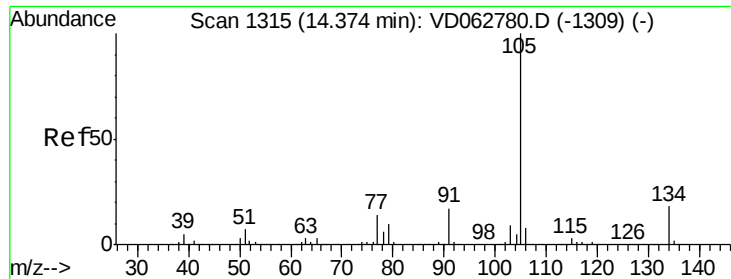
#84
1,2,4-Trimethylbenzene
Concen: 21.618 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. -0.00 min
Lab File: VD063019.D
Acq: 3 Jul 2019 12:25

Tgt Ion:105 Resp: 655178
Ion Ratio Lower Upper
105 100
120 41.3 21.3 63.9



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

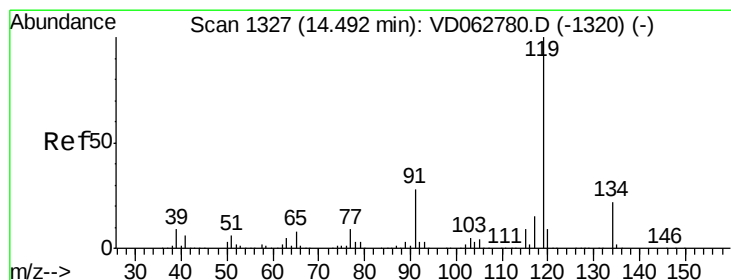
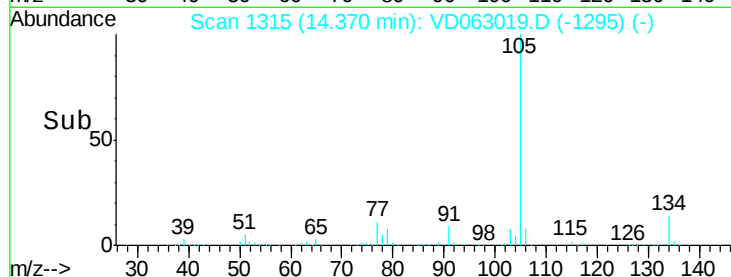
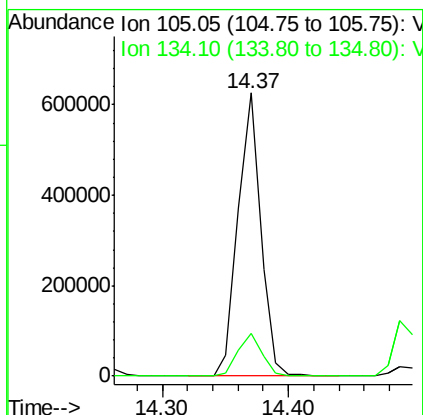
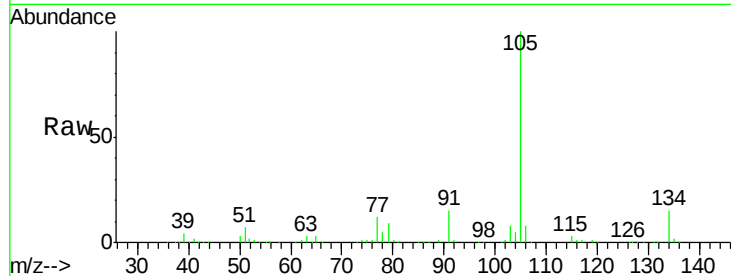




#85
 sec-Butylbenzene
 Concen: 21.772 ug/l
 RT: 14.37 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

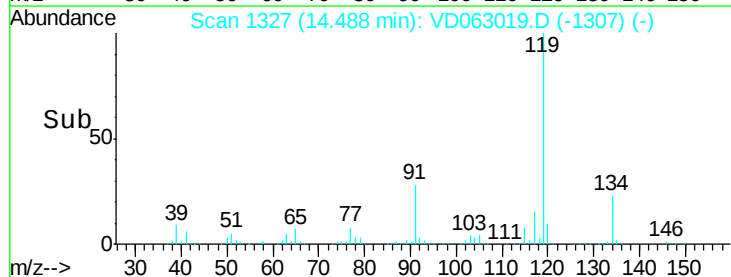
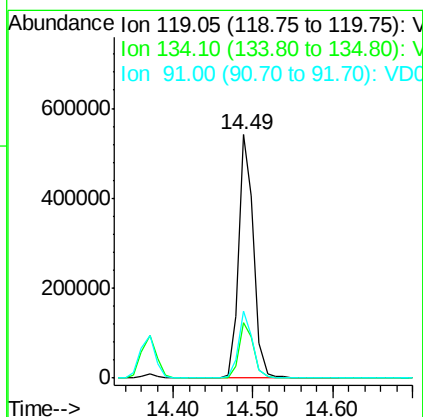
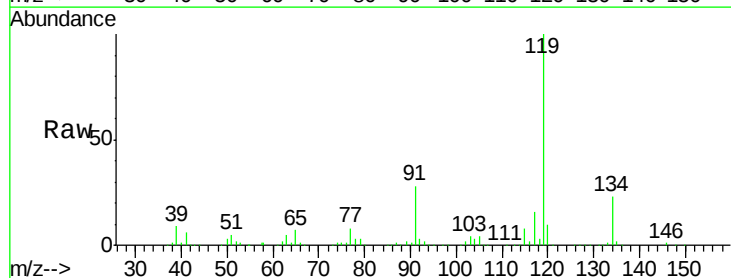
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBS01

Tot Ion:105 Resp: 779945
 Ion Ratio Lower Upper
 105 100
 134 15.0 9.1 27.3



#86
 p-Isopropyltoluene
 Concen: 21.542 ug/l
 RT: 14.49 min Scan# 1327
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Tgt Ion:119 Resp: 705972
 Ion Ratio Lower Upper
 119 100
 134 22.7 11.1 33.1
 91 27.7 14.0 41.9

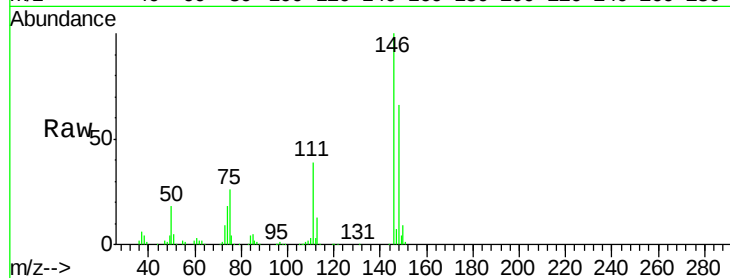




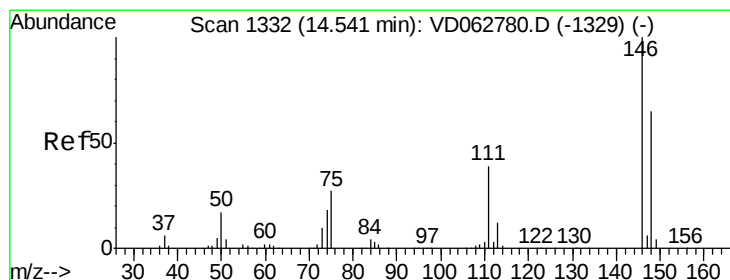
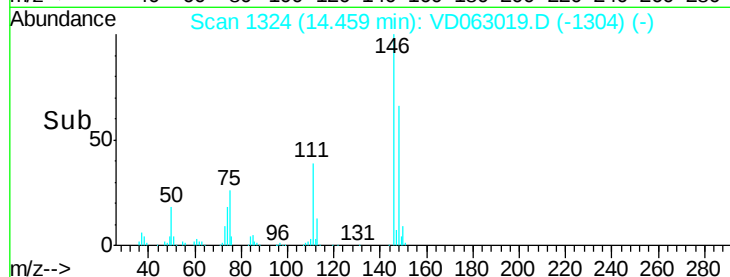
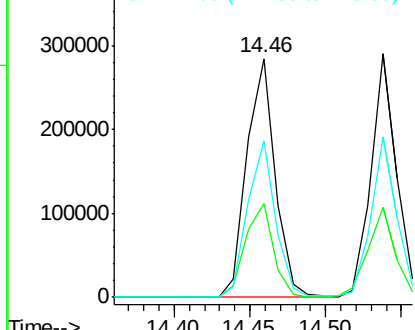
#87
 1,3-Dichlorobenzene
 Concen: 21.895 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.0	57.0
148	65.5	30.8	92.3

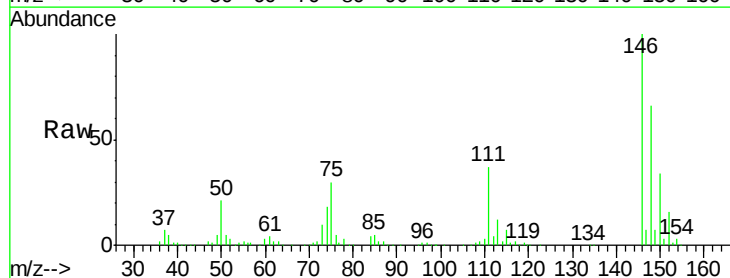


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

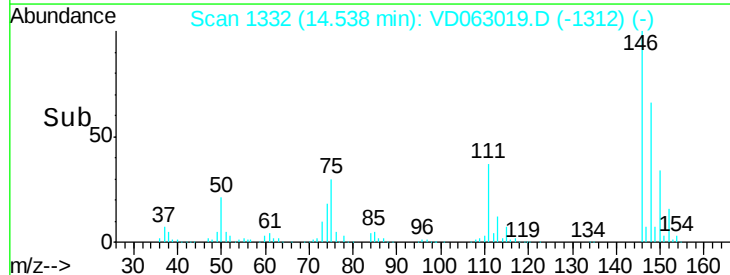
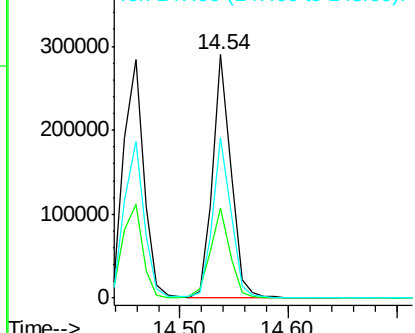


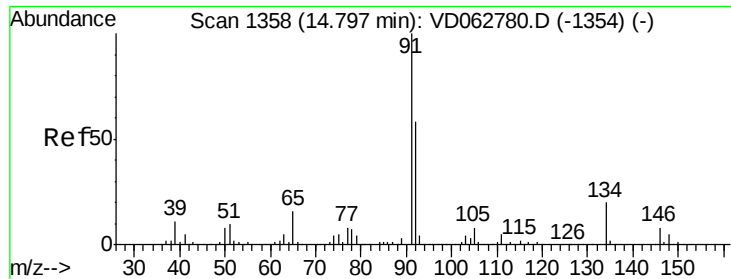
#88
 1,4-Dichlorobenzene
 Concen: 20.214 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	19.7	59.1
148	65.9	32.8	98.3



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: 20.931 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.01 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBSD01

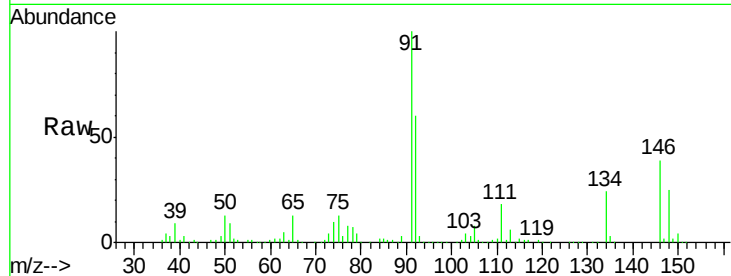
Tot Ion: 91 Resp: 642013

Ion Ratio Lower Upper

91 100

92 59.9 28.9 86.7

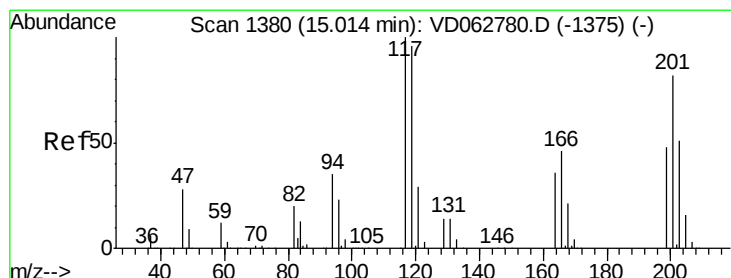
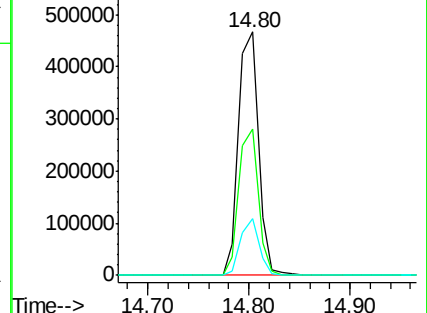
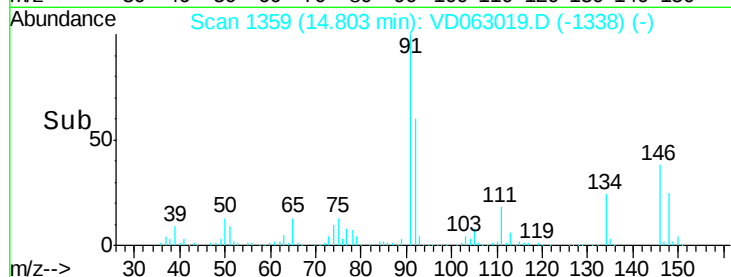
134 23.6 10.1 30.3



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 22.332 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. -0.00 min

Lab File: VD063019.D

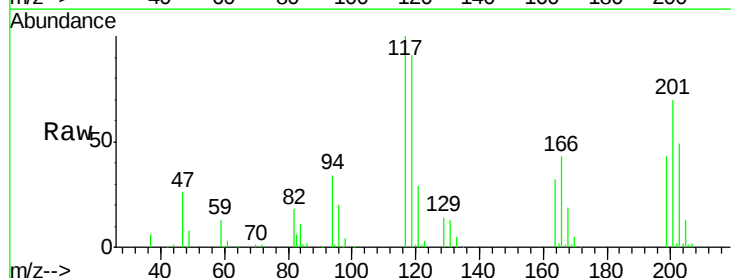
Acq: 3 Jul 2019 12:25

Tgt Ion: 117 Resp: 196778

Ion Ratio Lower Upper

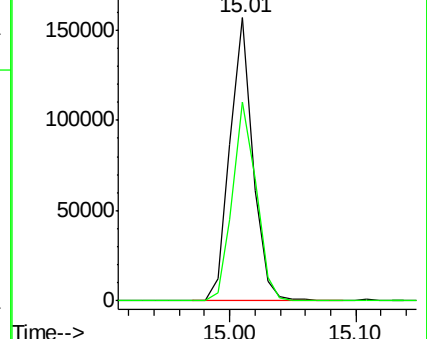
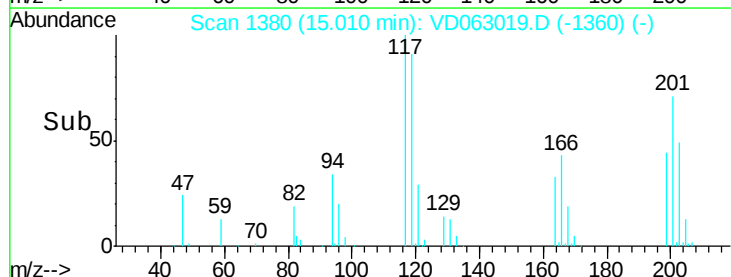
117 100

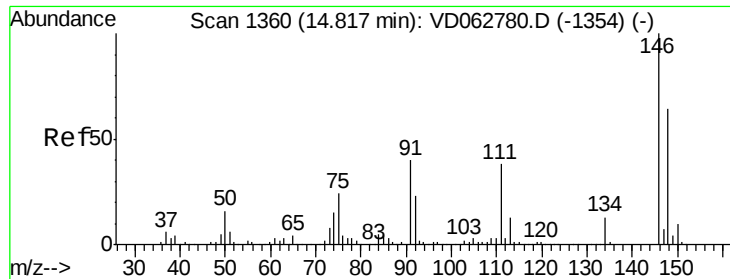
201 70.3 40.8 122.2



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC

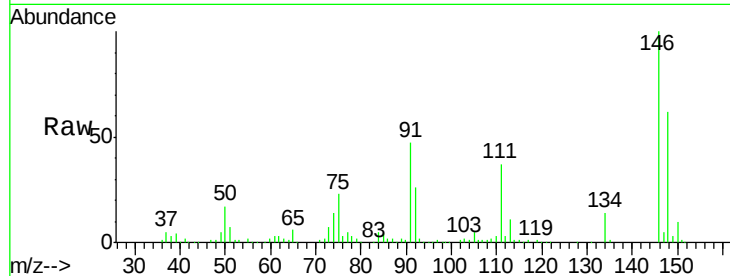




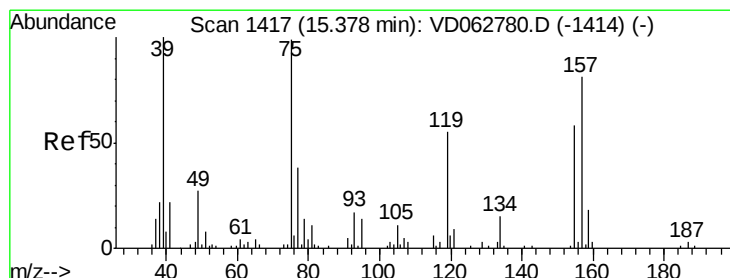
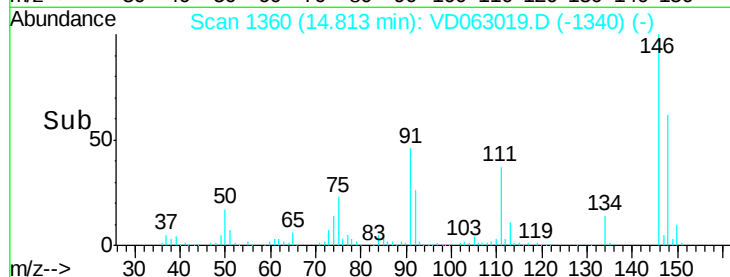
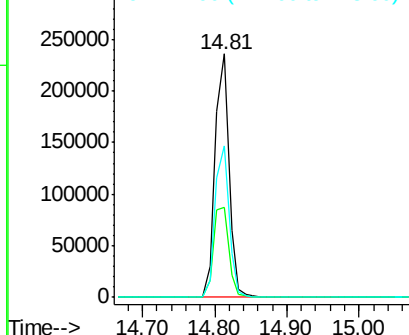
#91
 1,2-Dichlorobenzene
 Concen: 21.507 ug/l
 RT: 14.81 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBSD01

Tot Ion:146 Resp: 312325
 Ion Ratio Lower Upper
 146 100
 111 36.9 19.1 57.1
 148 62.2 32.3 96.8

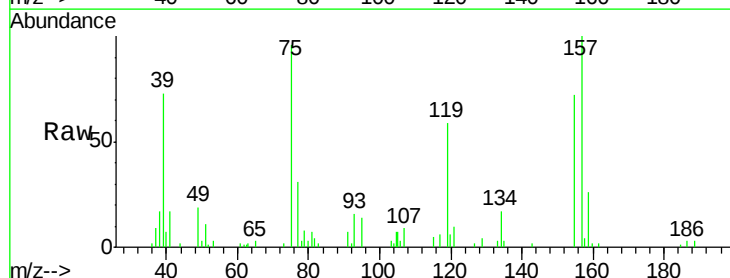


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

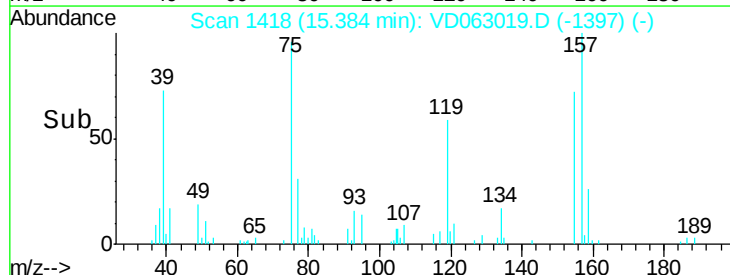
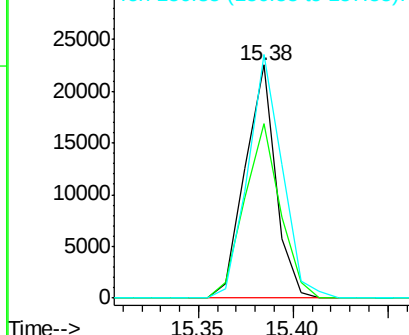


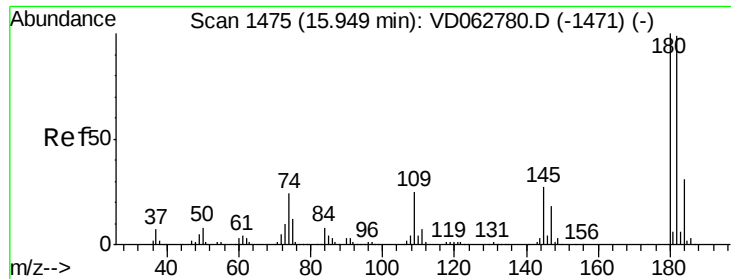
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 22.594 ug/l
 RT: 15.38 min Scan# 1418
 Delta R.T. 0.01 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Tgt Ion: 75 Resp: 25295
 Ion Ratio Lower Upper
 75 100
 155 75.2 29.3 87.8
 157 104.5 41.3 123.7



Abundance Ion 75.00 (74.70 to 75.70): V
 Ion 154.90 (154.60 to 155.60): V
 Ion 156.85 (156.55 to 157.55): V

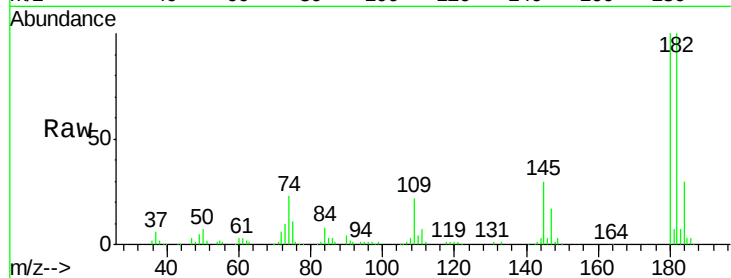




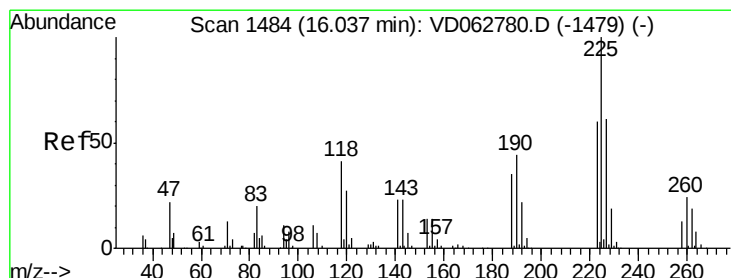
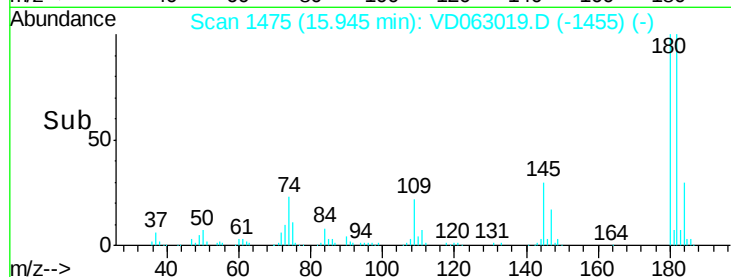
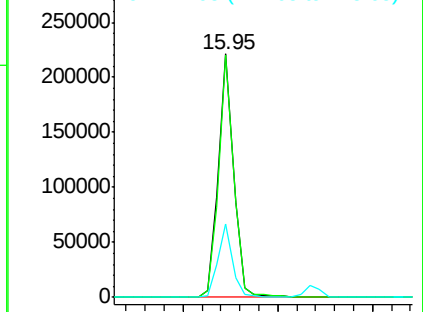
#93
 1,2,4-Trichlorobenzene
 Concen: 22.077 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0703SBSD01

Tot Ion:180 Resp: 250447
 Ion Ratio Lower Upper
 180 100
 182 99.7 49.5 148.5
 145 30.2 13.7 41.0

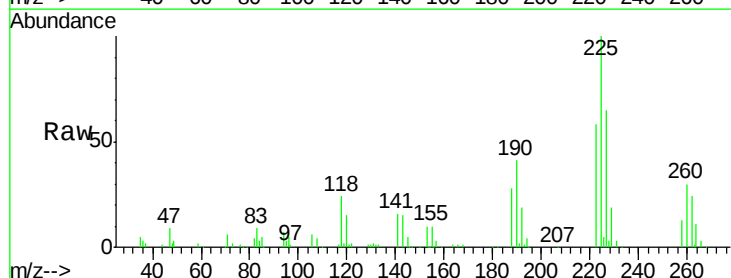


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

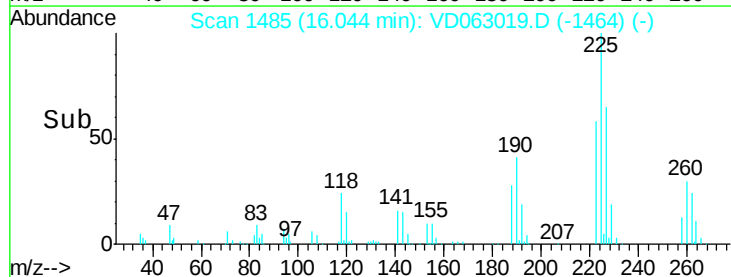
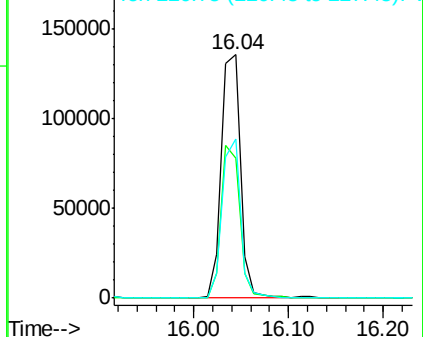


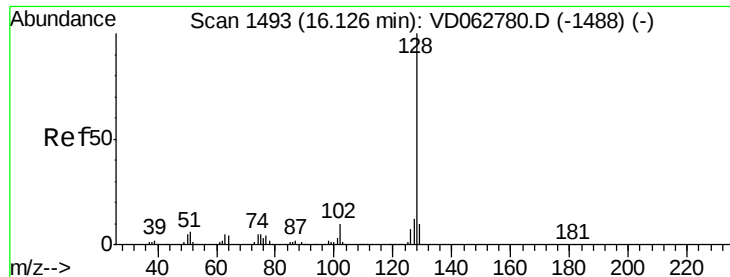
#94
 Hexachlorobutadiene
 Concen: 22.066 ug/l
 RT: 16.04 min Scan# 1485
 Delta R.T. 0.01 min
 Lab File: VD063019.D
 Acq: 3 Jul 2019 12:25

Tgt Ion:225 Resp: 191236
 Ion Ratio Lower Upper
 225 100
 223 57.7 29.8 89.5
 227 65.1 30.6 91.6



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





#95

Naphthalene

Concen: 21.894 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

Instrument :

MSVOA_D

ClientSampleId :

VD0703SBSD01

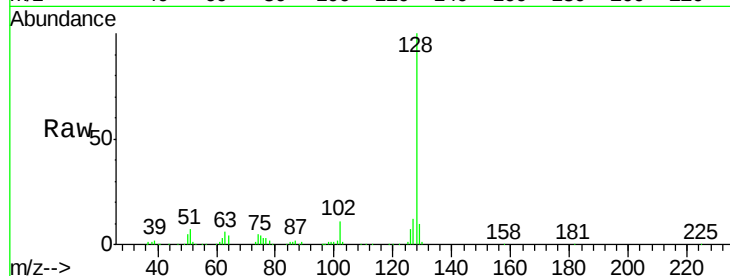
Tot Ion:128 Resp: 348119

Ion Ratio Lower Upper

128 100

127 11.7 9.7 14.5

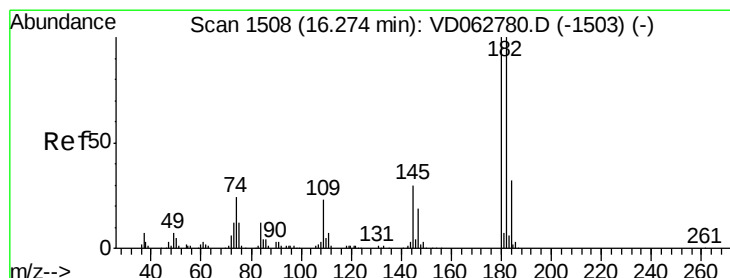
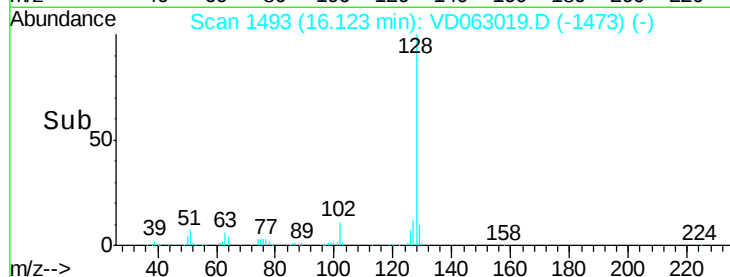
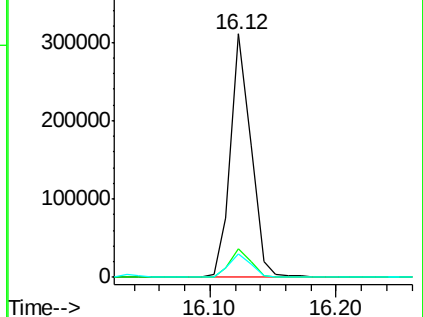
129 9.6 8.3 12.5



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: 22.147 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VD063019.D

Acq: 3 Jul 2019 12:25

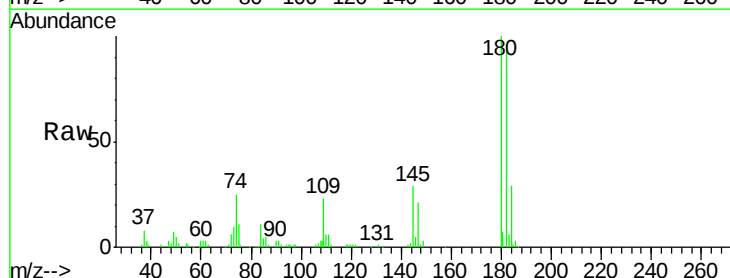
Tgt Ion:180 Resp: 193033

Ion Ratio Lower Upper

180 100

182 93.3 49.9 149.6

145 29.3 15.2 45.5



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

