

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071019\
 Data File : VD063058.D
 Acq On : 10 Jul 2019 15:22
 Operator : VA/AP
 Sample : VD0710SBS01
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0710SBS01

Quant Time: Jul 11 07:00:22 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	7.04	168	957028	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.21	114	1362271	50.00	ug/l	-0.01
63) Chlorobenzene-d5	12.36	117	1122739	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	14.52	152	625889	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	519694	49.96	ug/l	-0.02
Spiked Amount			Recovery	=	99.92%	
35) Dibromofluoromethane	6.91	113	581610	50.63	ug/l	-0.02
Spiked Amount			Recovery	=	101.26%	
50) Toluene-d8	10.40	98	1204238	48.17	ug/l	-0.01
Spiked Amount			Recovery	=	96.34%	
62) 4-Bromofluorobenzene	13.55	95	554653	48.79	ug/l	0.00
Spiked Amount			Recovery	=	97.58%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.56	85	239445	19.335	ug/l	95
3) Chloromethane	1.75	50	194191	20.850	ug/l	98
4) Vinyl Chloride	1.84	62	191306	20.716	ug/l	97
5) Bromomethane	2.14	94	58518	13.531	ug/l	96
6) Chloroethane	2.25	64	79153	18.932	ug/l	94
7) Trichlorofluoromethane	2.52	101	362340	19.388	ug/l	96
8) Diethyl Ether	2.86	74	60647	25.540	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.14	101	216944	21.427	ug/l	95
10) Methyl Iodide	3.29	142	239532	17.932	ug/l	94
11) Tert butyl alcohol	4.08	59	58536	123.548	ug/l #	94
12) 1,1-Dichloroethene	3.11	96	163914	21.581	ug/l	94
13) Acrolein	3.02	56	32050	66.262	ug/l	86
14) Allyl chloride	3.60	41	256737	22.876	ug/l	95
15) Acrylonitrile	4.18	53	144563	129.854	ug/l #	88
16) Acetone	3.22	43	240750	110.210	ug/l	100
17) Carbon Disulfide	3.35	76	456370	18.801	ug/l	98
18) Methyl Acetate	3.63	43	116363	37.054	ug/l	100
19) Methyl tert-butyl Ether	4.23	73	392045	23.844	ug/l	98
20) Methylene Chloride	3.80	84	172349	21.724	ug/l	99
21) trans-1,2-Dichloroethene	4.20	96	179559	22.203	ug/l	95
22) Diisopropyl ether	5.11	45	555960	24.359	ug/l	98
23) Vinyl Acetate	5.05	43	1653084	115.749	ug/l	98
24) 1,1-Dichloroethane	4.97	63	336478	22.643	ug/l	98
25) 2-Butanone	6.06	43	240570	123.646	ug/l	97
26) 2,2-Dichloropropane	6.01	77	339189	21.535	ug/l	98
27) cis-1,2-Dichloroethene	6.02	96	181624	21.237	ug/l	95
28) Bromochloromethane	6.43	49	126107	24.095	ug/l	88
29) Tetrahydrofuran	6.46	42	115838	125.835	ug/l	98
30) Chloroform	6.65	83	393967	21.800	ug/l	90
31) Cyclohexane	6.95	56	218959	22.414	ug/l	96
32) 1,1,1-Trichloroethane	6.86	97	391888	20.820	ug/l	93
36) 1,1-Dichloropropene	7.13	75	255944	19.847	ug/l #	81
37) Ethyl Acetate	6.17	43	114667	20.518	ug/l	99
38) Carbon Tetrachloride	7.10	117	380523	19.620	ug/l	96

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Quant Time: Jul 11 07:00:22 2019
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 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	8.86	83	203250	17.905	ug/l	92
40) Benzene	7.44	78	547678	21.157	ug/l	99
41) Methacrylonitrile	6.45	41	150523	22.133	ug/l #	91
42) 1,2-Dichloroethane	7.57	62	284309	20.133	ug/l	97
43) Isopropyl Acetate	9.23	43	164026	24.261	ug/l #	100
44) Trichloroethene	8.53	130	227806	22.448	ug/l	87
45) 1,2-Dichloropropane	8.93	63	142789	22.184	ug/l	95
46) Dibromomethane	9.05	93	121293	21.937	ug/l	92
47) Bromodichloromethane	9.37	83	298771	20.806	ug/l	93
48) Methyl methacrylate	9.11	41	107552	22.386	ug/l	94
49) 1,4-Dioxane	9.07	88	17034	426.154	ug/l #	82
51) 4-Methyl-2-Pentanone	10.29	43	569745	118.860	ug/l	100
52) Toluene	10.50	92	358603	20.609	ug/l	96
53) t-1,3-Dichloropropene	10.90	75	258169	21.966	ug/l	93
54) cis-1,3-Dichloropropene	10.03	75	278124	21.771	ug/l	91
55) 1,1,2-Trichloroethane	11.18	97	128355	21.471	ug/l	89
56) Ethyl methacrylate	11.03	69	146964	23.003	ug/l	97
57) 1,3-Dichloropropane	11.40	76	196400	21.456	ug/l	91
58) 2-Chloroethyl Vinyl ether	9.85	63	399349	121.756	ug/l	99
59) 2-Hexanone	11.53	43	416903	122.123	ug/l	99
60) Dibromochloromethane	11.68	129	245911	22.084	ug/l	97
61) 1,2-Dibromoethane	11.80	107	154191	21.839	ug/l	98
64) Tetrachloroethene	11.25	164	188025	20.348	ug/l	96
65) Chlorobenzene	12.39	112	464584	22.296	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.51	131	207408	21.285	ug/l	93
67) Ethyl Benzene	12.52	91	780291	20.858	ug/l	99
68) m/p-Xylenes	12.67	106	575616	44.177	ug/l	92
69) o-Xylene	13.04	106	265921	22.326	ug/l	92
70) Styrene	13.07	104	481374	23.009	ug/l	93
71) Bromoform	13.23	173	147232	22.053	ug/l	97
73) Isopropylbenzene	13.40	105	806422	20.095	ug/l	98
74) N-amyl acetate	13.26	43	215027	22.064	ug/l	96
75) 1,1,2,2-Tetrachloroethane	13.70	83	153342	23.452	ug/l	92
76) 1,2,3-Trichloropropane	13.73	75	161784	22.391	ug/l	89
77) Bromobenzene	13.67	156	227493	21.076	ug/l	86
78) n-propylbenzene	13.77	91	927343	19.854	ug/l	96
79) 2-Chlorotoluene	13.84	91	568236	21.288	ug/l	95
80) 1,3,5-Trimethylbenzene	13.93	105	707651	20.993	ug/l	97
81) trans-1,4-Dichloro-2-buten	13.46	75	40272	21.267	ug/l	92
82) 4-Chlorotoluene	13.95	91	687629	21.397	ug/l	99
83) tert-Butylbenzene	14.18	119	810656	21.575	ug/l	90
84) 1,2,4-Trimethylbenzene	14.23	105	702814	20.342	ug/l	97
85) sec-Butylbenzene	14.36	105	832295	20.381	ug/l	95
86) p-Isopropyltoluene	14.49	119	760977	20.369	ug/l	96
87) 1,3-Dichlorobenzene	14.45	146	376065	19.436	ug/l	97
88) 1,4-Dichlorobenzene	14.54	146	409899	21.092	ug/l	96
89) n-Butylbenzene	14.79	91	702882	20.101	ug/l	99
90) Hexachloroethane	15.00	117	207569	20.664	ug/l	75
91) 1,2-Dichlorobenzene	14.80	146	346655	20.940	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.37	75	29426	23.057	ug/l	89

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D061919S.M
Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
Response via : Initial Calibration

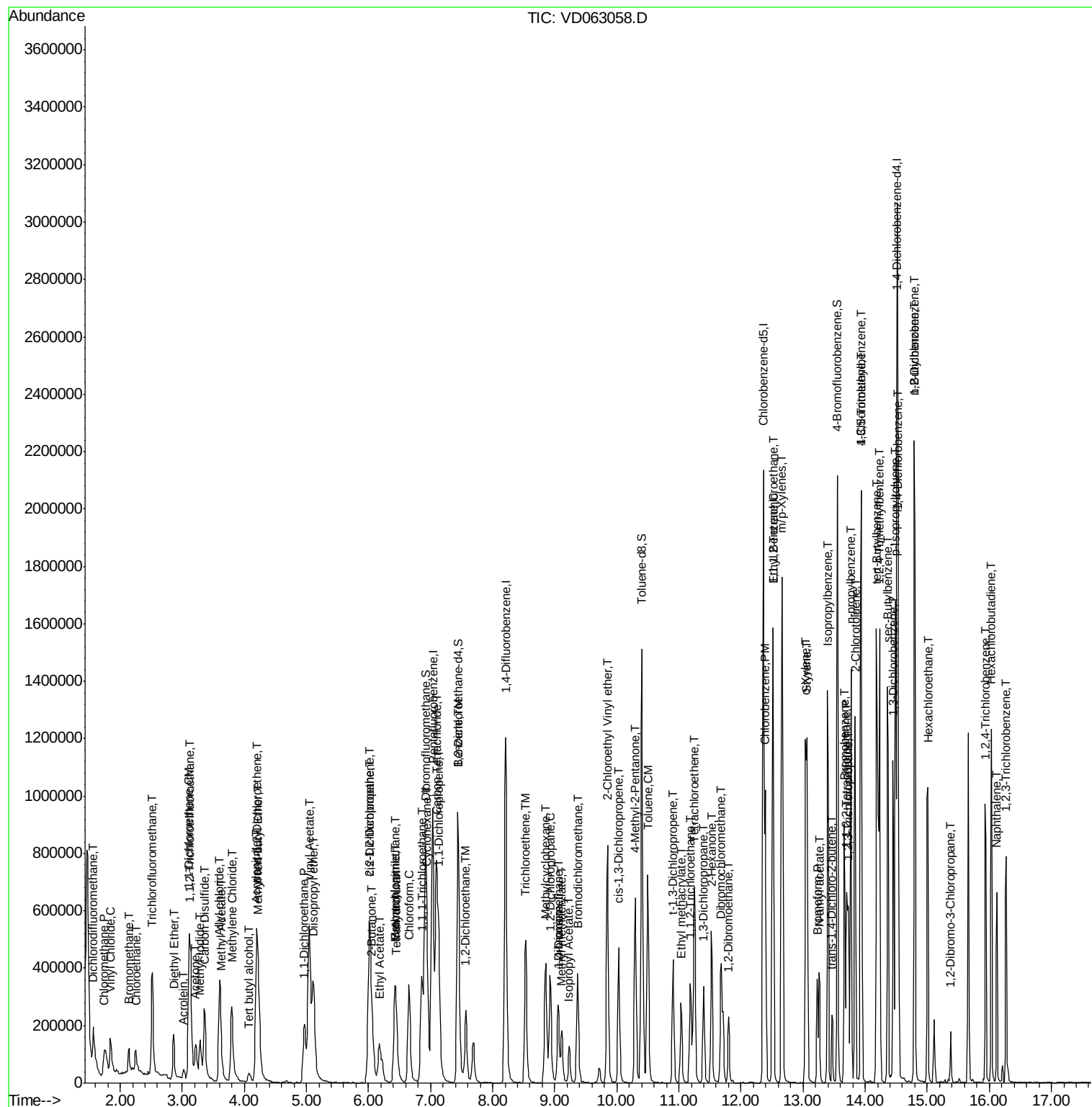
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	260283	20.127	ug/l	97
94) Hexachlorobutadiene	16.03	225	192348	19.470	ug/l	98
95) Naphthalene	16.12	128	404677	22.327	ug/l	97
96) 1,2,3-Trichlorobenzene	16.27	180	213609	21.498	ug/l	93

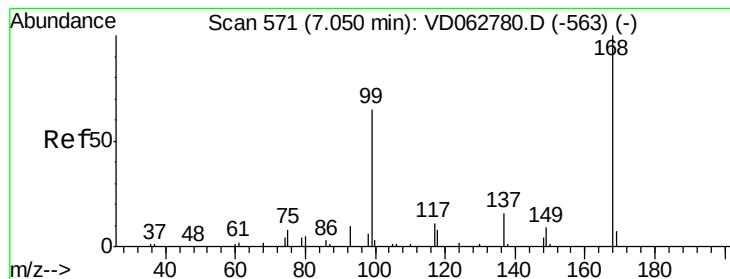
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Jun 20 01:50:56 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

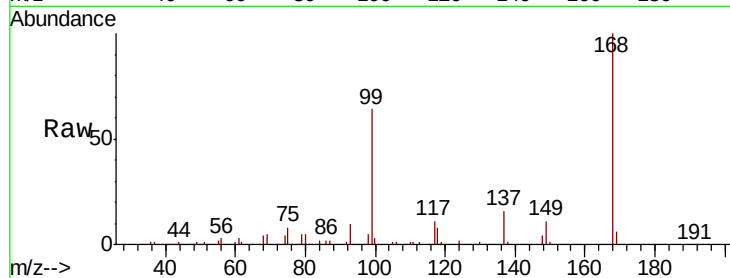
VD0710SBS01

Tot Ion:168 Resp: 957028

Ion Ratio Lower Upper

168 100

99 64.4 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.04

300000

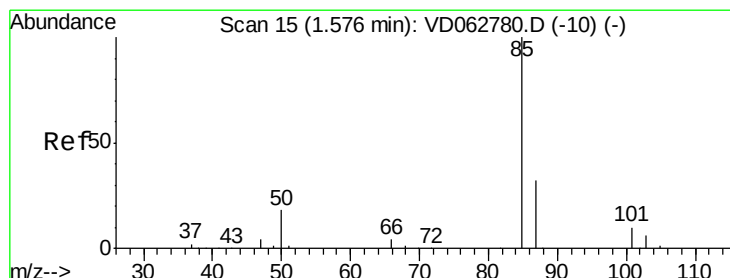
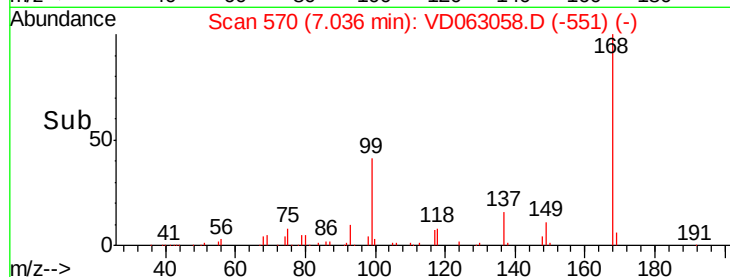
200000

100000

0

6.90 7.00 7.10 7.20 7.30

Time-->



#2

Dichlorodifluoromethane

Concen: 19.335 ug/l

RT: 1.56 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD063058.D

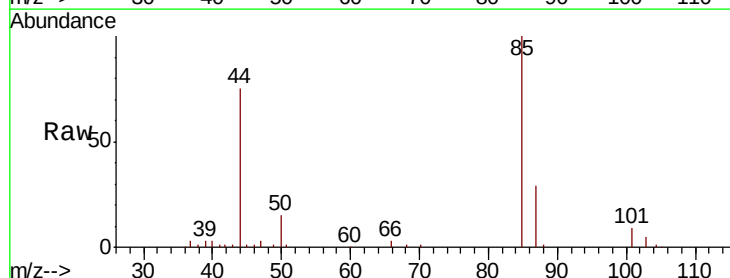
Acq: 10 Jul 2019 15:22

Tgt Ion: 85 Resp: 239445

Ion Ratio Lower Upper

85 100

87 29.1 15.9 47.6



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V

1.56

80000

60000

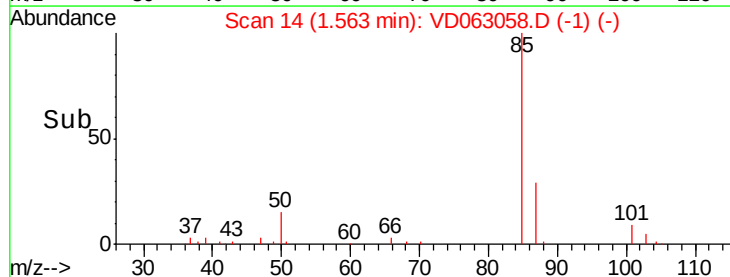
40000

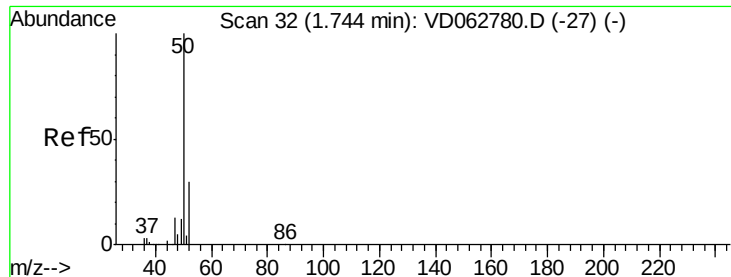
20000

0

1.50 1.60 1.70 1.80

Time-->





#3

Chloromethane

Concen: 20.850 ug/l

RT: 1.75 min Scan# 33

Delta R.T. 0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

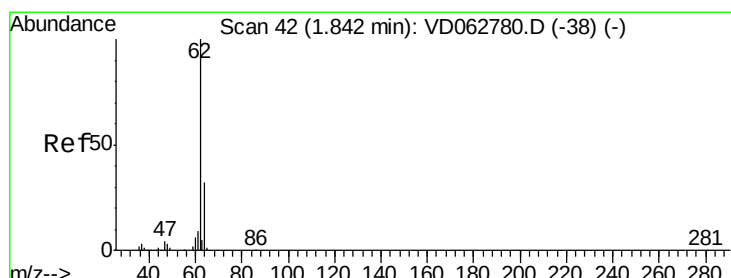
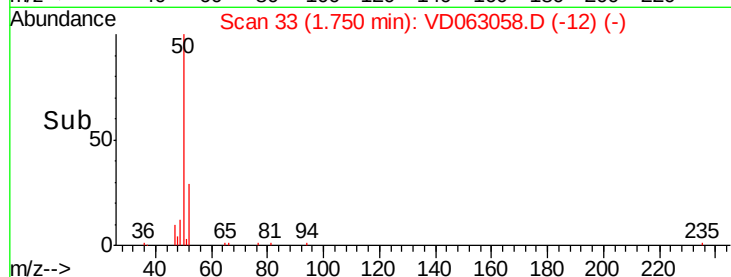
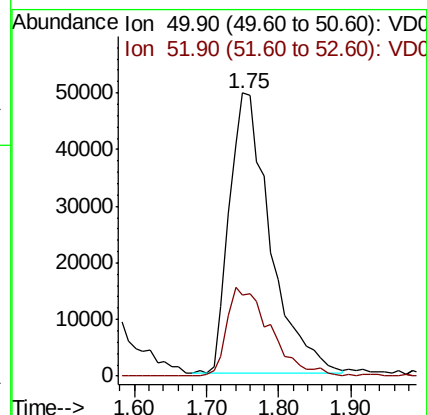
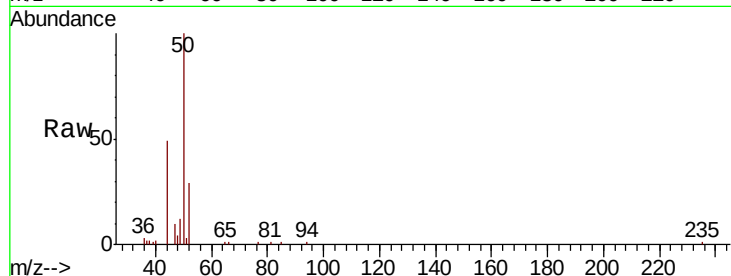
VD0710SBS01

Tot Ion: 50 Resp: 194191

Ion Ratio Lower Upper

50 100

52 28.6 23.6 35.4



#4

Vinyl Chloride

Concen: 20.716 ug/l

RT: 1.84 min Scan# 42

Delta R.T. -0.00 min

Lab File: VD063058.D

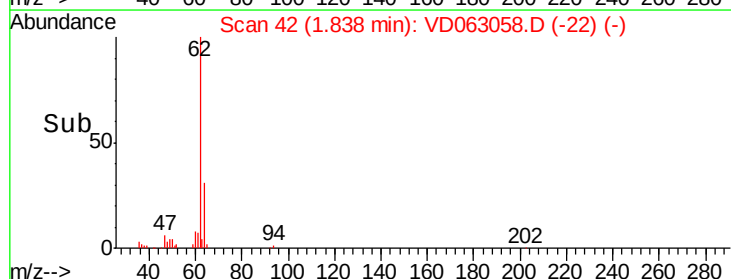
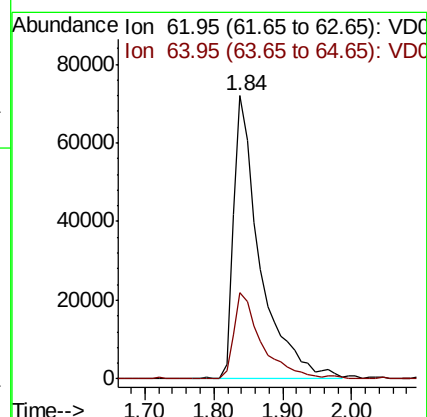
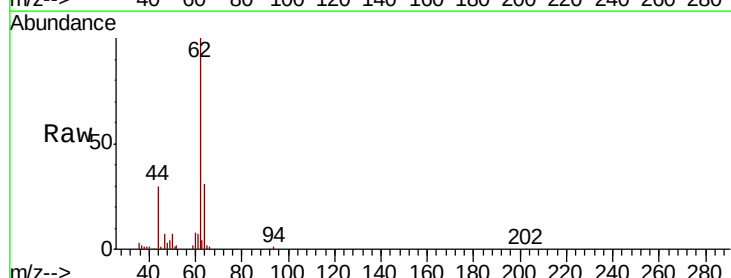
Acq: 10 Jul 2019 15:22

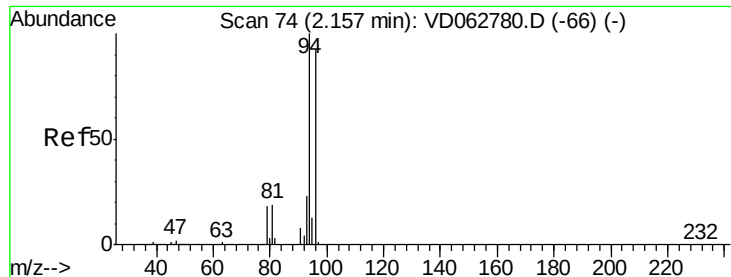
Tgt Ion: 62 Resp: 191306

Ion Ratio Lower Upper

62 100

64 30.5 25.6 38.4





#5

Bromomethane

Concen: 13.531 ug/l

RT: 2.14 min Scan# 73

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

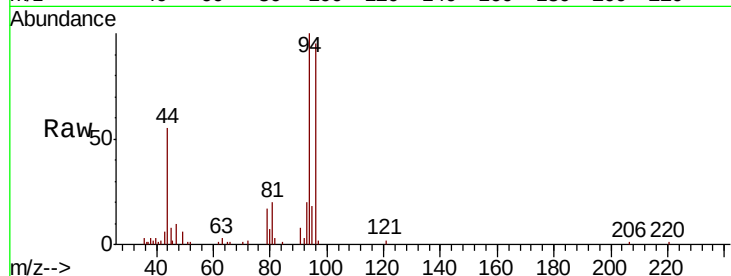
Tot Ion: 94 Resp: 58518

Ion Ratio Lower Upper

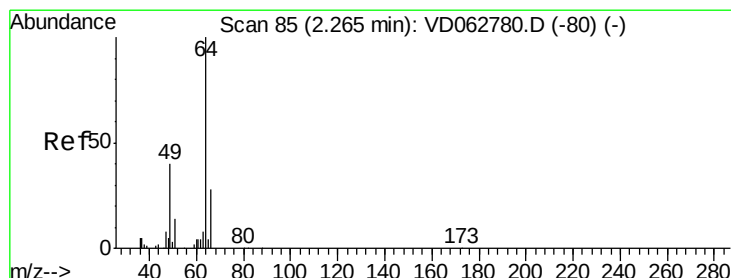
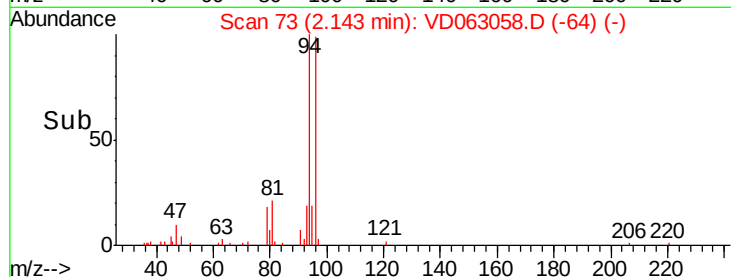
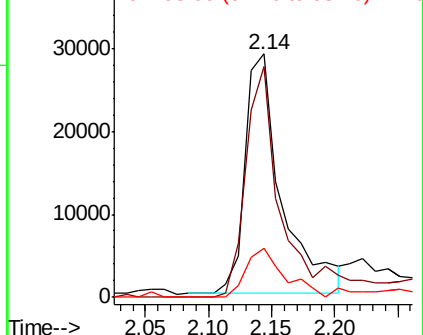
94 100

96 95.0 73.4 110.2

93 20.4 18.2 27.4



Abundance Ion 94.00 (93.70 to 94.70): VDC
Ion 96.00 (95.70 to 96.70): VDC
Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 18.932 ug/l

RT: 2.25 min Scan# 84

Delta R.T. -0.01 min

Lab File: VD063058.D

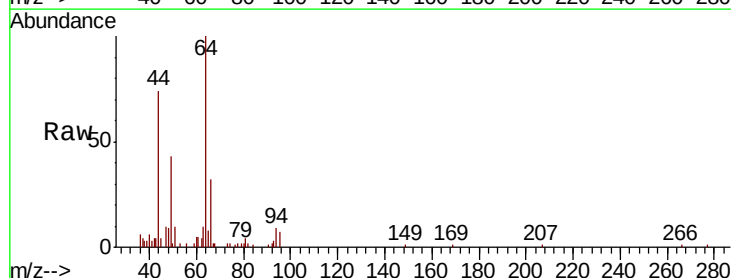
Acq: 10 Jul 2019 15:22

Tgt Ion: 64 Resp: 79153

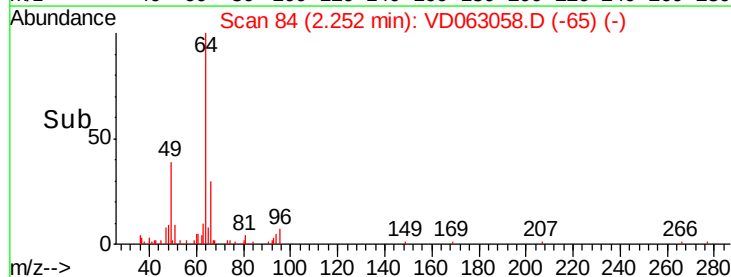
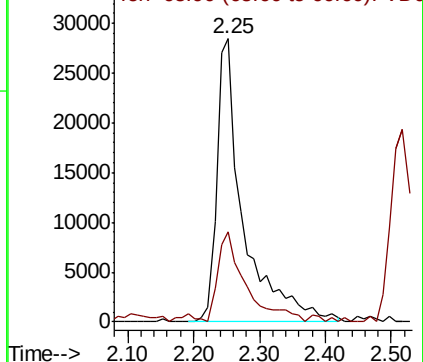
Ion Ratio Lower Upper

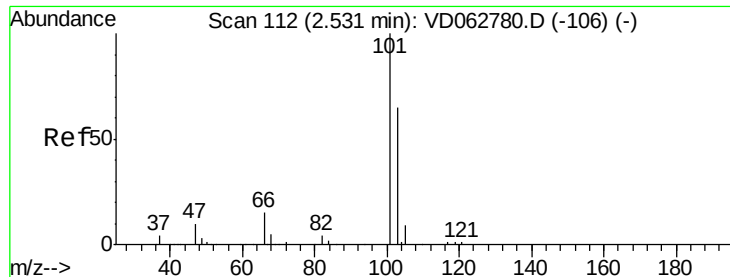
64 100

66 32.0 23.0 34.4



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



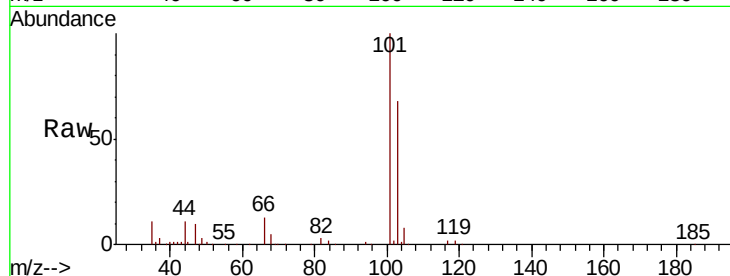


#7

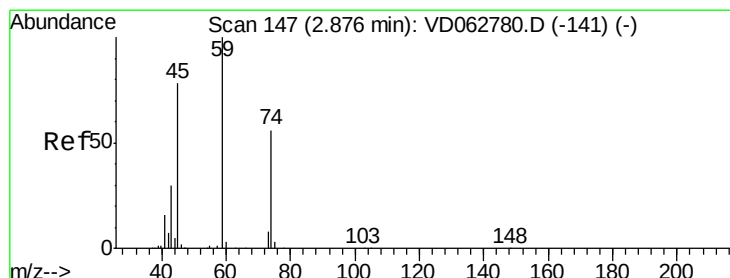
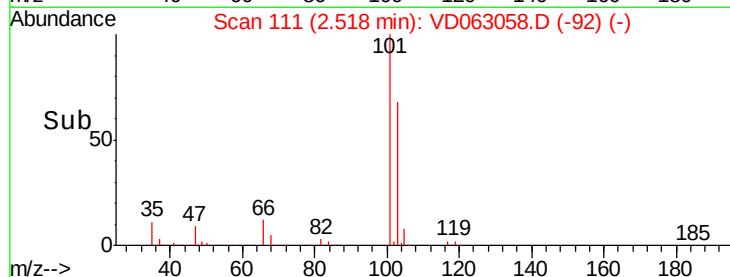
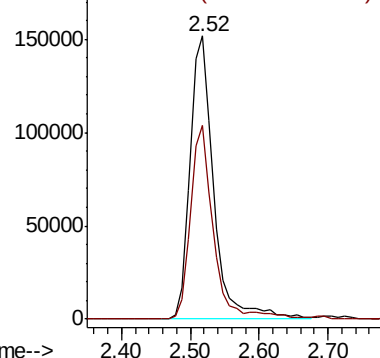
Trichlorofluoromethane
Concen: 19.388 ug/l
RT: 2.52 min Scan# 111
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Instrument :
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ClientSampleId :
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Tot Ion:101 Resp: 362340
Ion Ratio Lower Upper
101 100
103 68.3 51.8 77.8



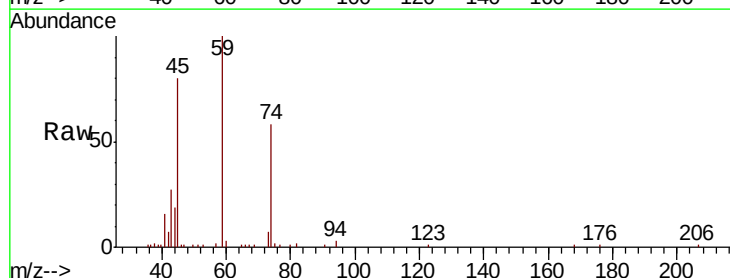
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



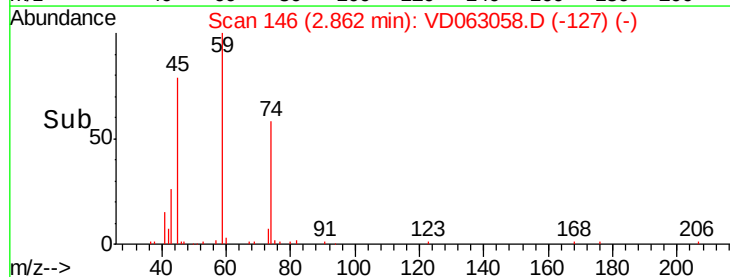
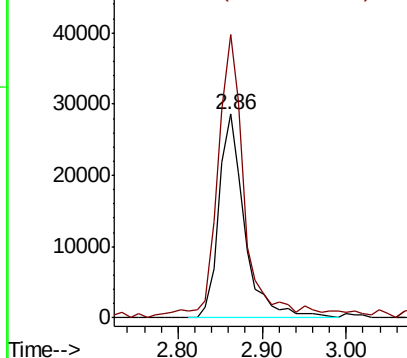
#8

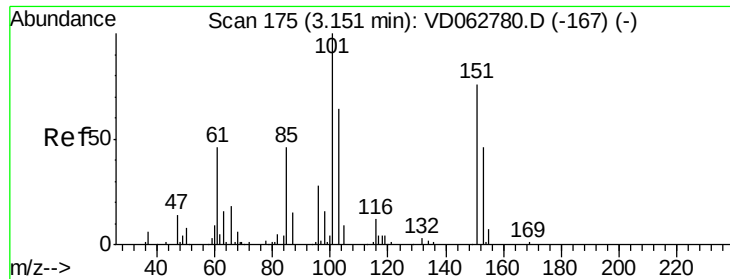
Diethyl Ether
Concen: 25.540 ug/l
RT: 2.86 min Scan# 146
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 74 Resp: 60647
Ion Ratio Lower Upper
74 100
45 139.1 70.2 210.6



Abundance Ion 74.00 (73.70 to 74.70): VDC
Ion 45.05 (44.75 to 45.75): VDC





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.427 ug/l

RT: 3.14 min Scan# 174

Delta R.T. -0.01 min

Lab File: VD063058.D

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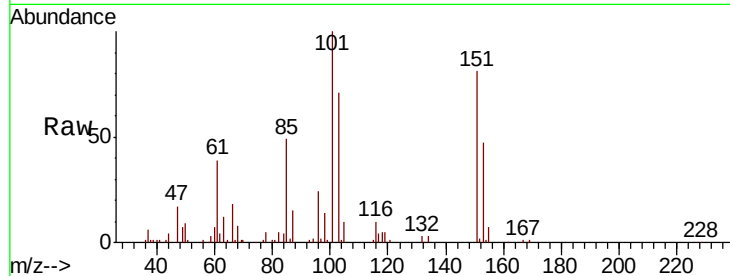
Tot Ion:101 Resp: 216944

Ion Ratio Lower Upper

101 100

85 48.8 37.0 55.4

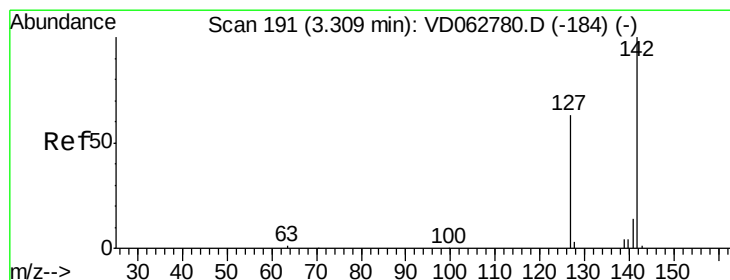
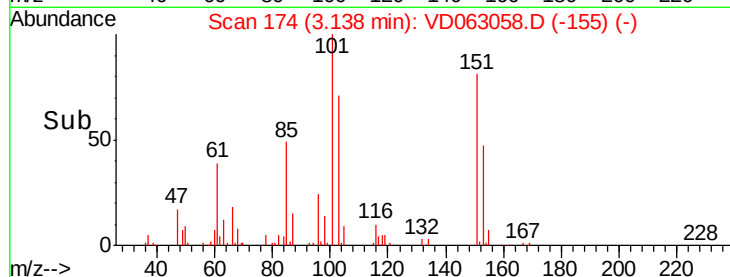
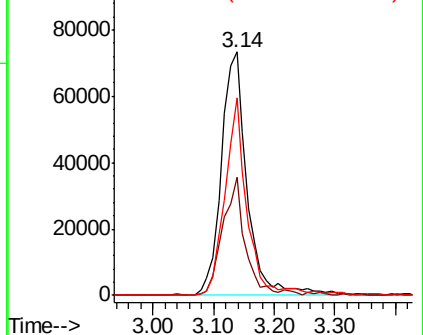
151 81.0 60.5 90.7



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: 17.932 ug/l

RT: 3.29 min Scan# 189

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

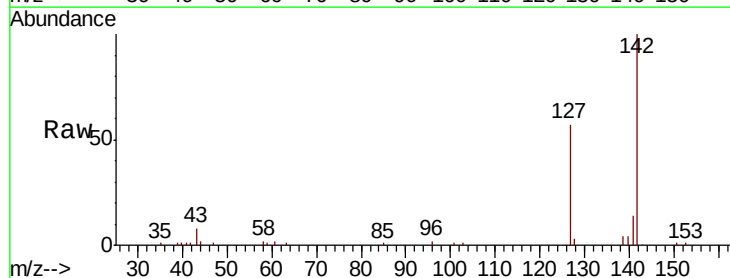
Tgt Ion:142 Resp: 239532

Ion Ratio Lower Upper

142 100

127 56.8 50.1 75.1

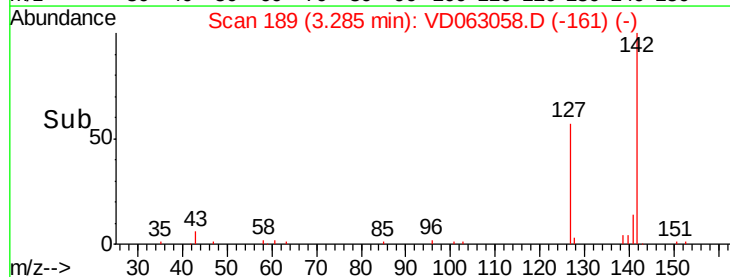
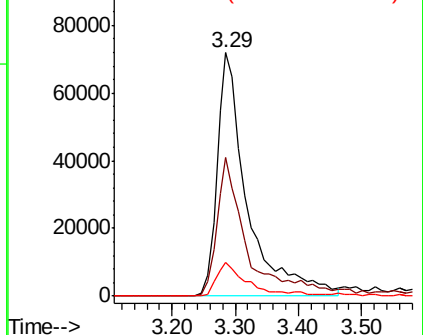
141 13.7 11.0 16.4

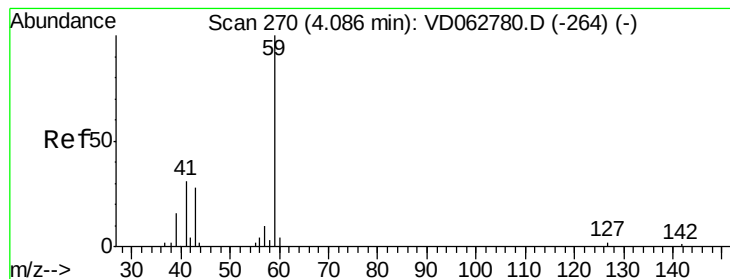


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V





#11

Tert butyl alcohol

Concen: 123.548 ug/l

RT: 4.08 min Scan# 270

Delta R.T. -0.00 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

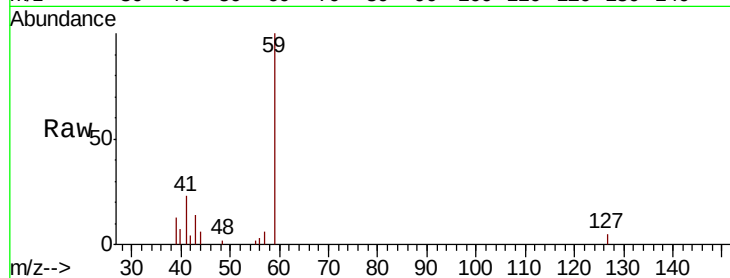
VD0710SBS01

Tot Ion: 59 Resp: 58536

Ion Ratio Lower Upper

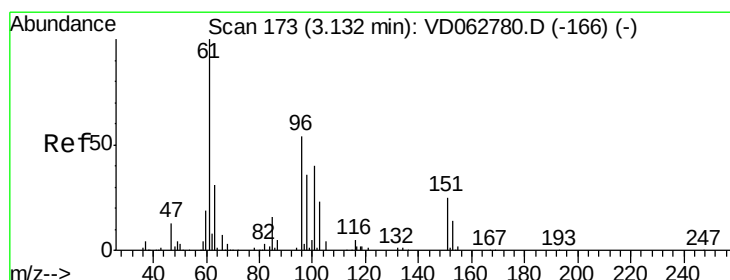
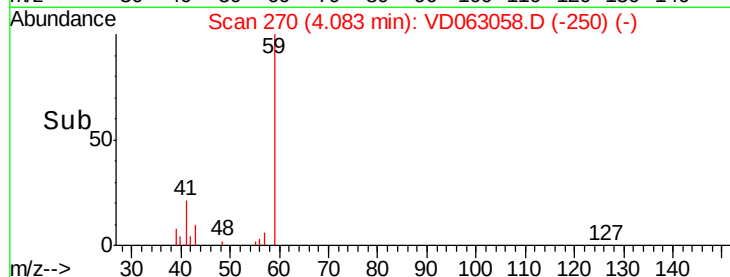
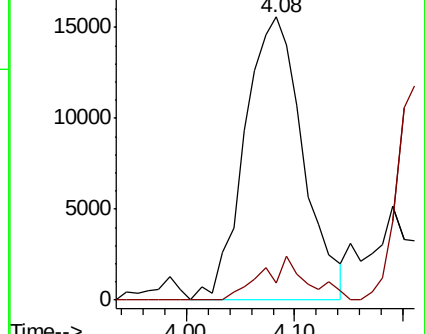
59 100

57 6.2 6.6 10.0#



Abundance Ion 58.95 (58.65 to 59.65): VDC

Ion 56.95 (56.65 to 57.65): VDC



#12

1,1-Dichloroethene

Concen: 21.581 ug/l

RT: 3.11 min Scan# 171

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

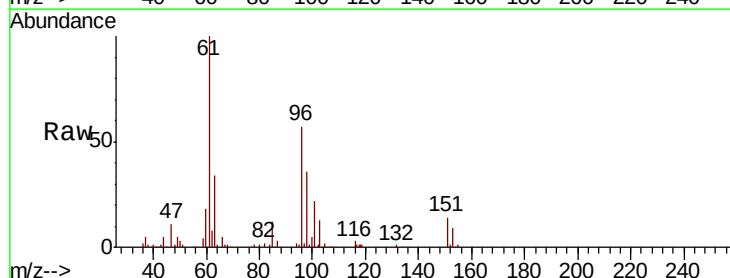
Tgt Ion: 96 Resp: 163914

Ion Ratio Lower Upper

96 100

61 174.2 147.1 220.7

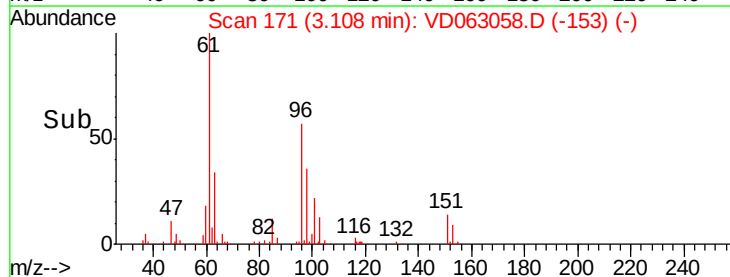
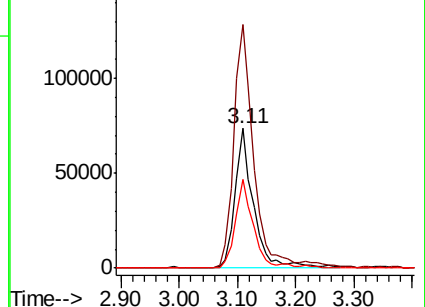
98 63.1 52.6 79.0

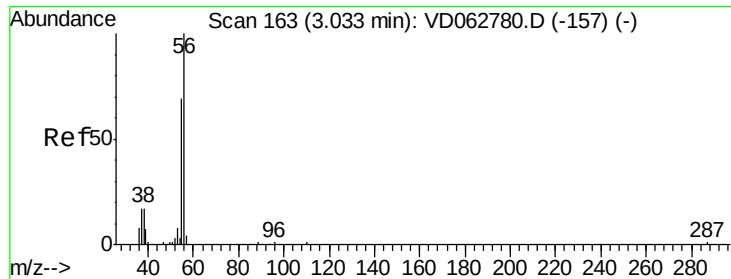


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC





#13

Acrolein

Concen: 66.262 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

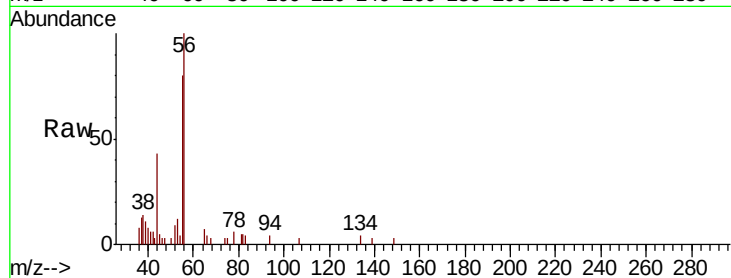
VD0710SBS01

Tot Ion: 56 Resp: 32050

Ion Ratio Lower Upper

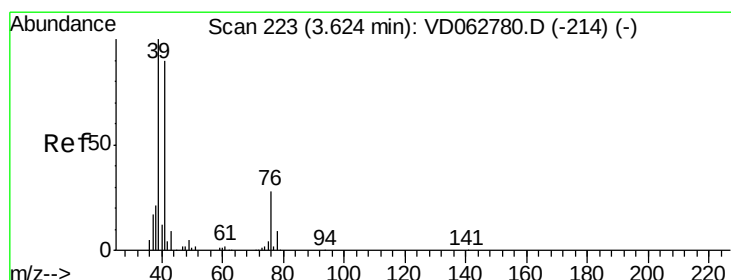
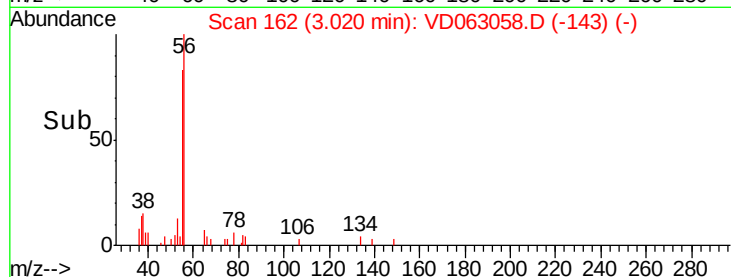
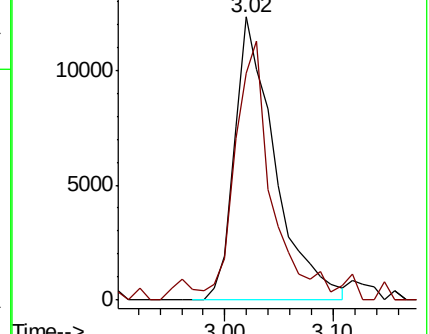
56 100

55 80.2 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: 22.876 ug/l

RT: 3.60 min Scan# 221

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

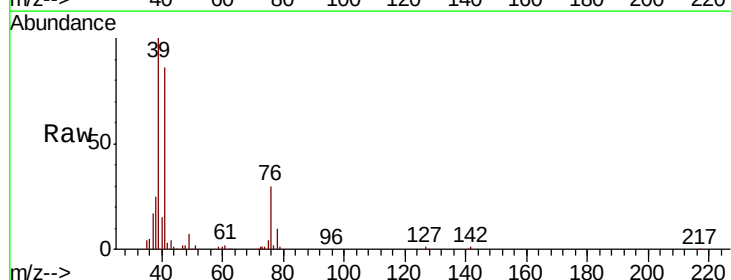
Tgt Ion: 41 Resp: 256737

Ion Ratio Lower Upper

41 100

39 116.3 88.8 133.2

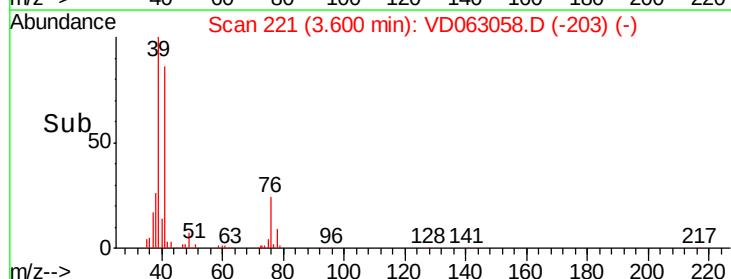
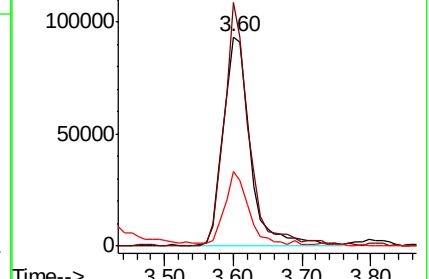
76 35.5 26.7 40.1

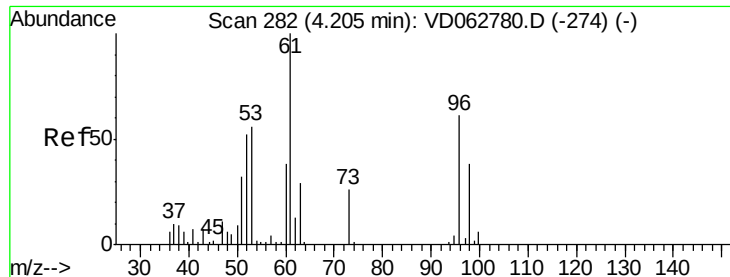


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 129.854 ug/l

RT: 4.18 min Scan# 280

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

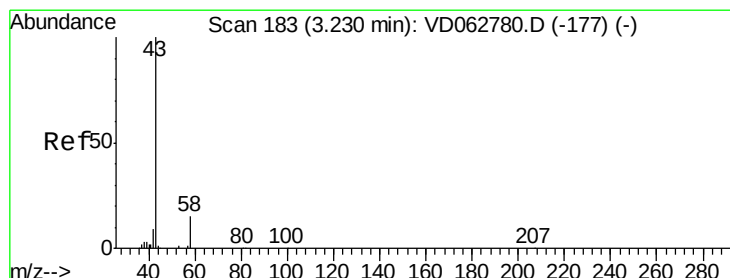
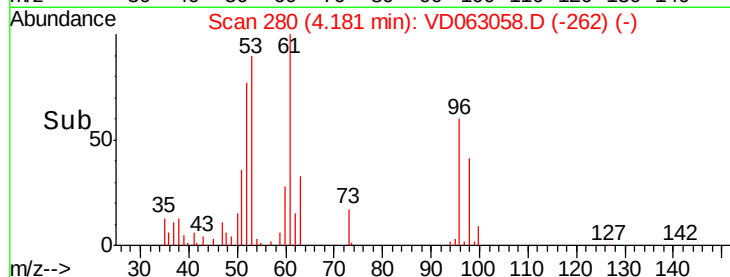
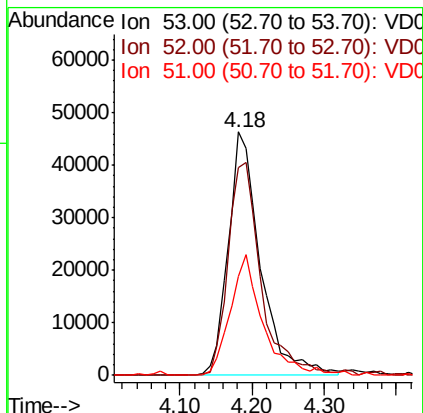
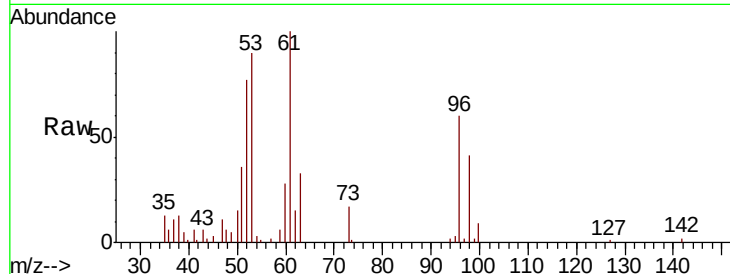
Tot Ion: 53 Resp: 144563

Ion Ratio Lower Upper

53 100

52 85.6 73.3 109.9

51 40.5 44.8 67.2#



#16

Acetone

Concen: 110.210 ug/l

RT: 3.22 min Scan# 182

Delta R.T. -0.01 min

Lab File: VD063058.D

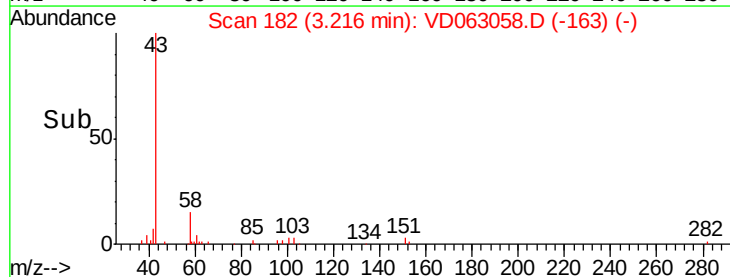
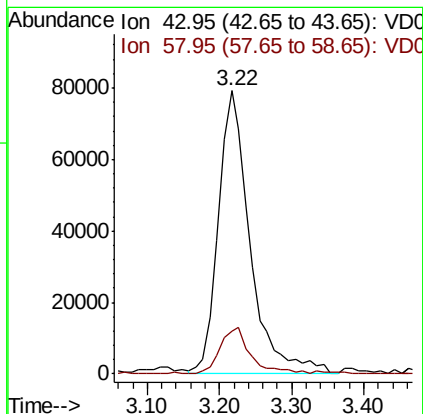
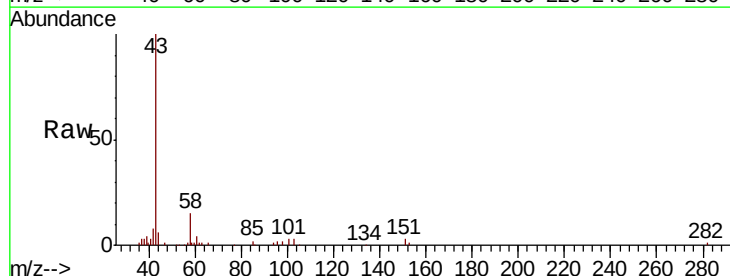
Acq: 10 Jul 2019 15:22

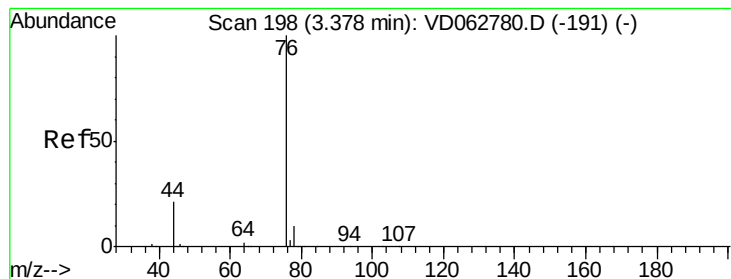
Tgt Ion: 43 Resp: 240750

Ion Ratio Lower Upper

43 100

58 15.1 11.9 17.9





#17

Carbon Disulfide

Concen: 18.801 ug/l

RT: 3.35 min Scan# 196

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

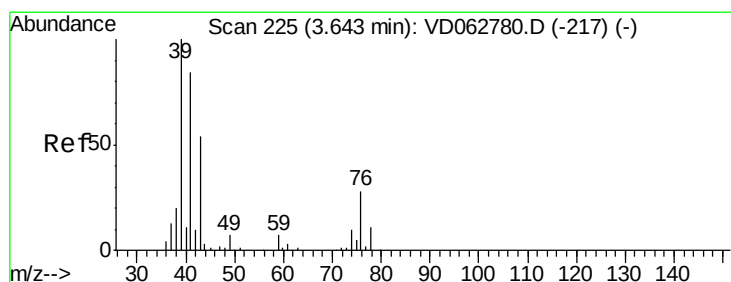
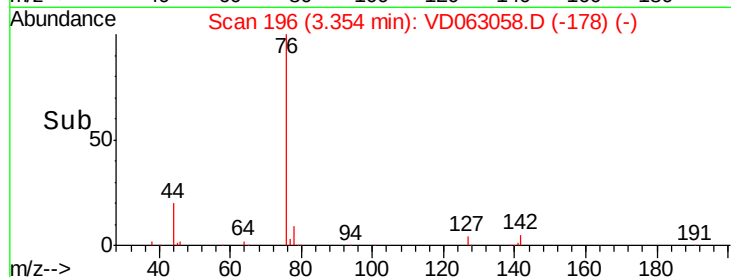
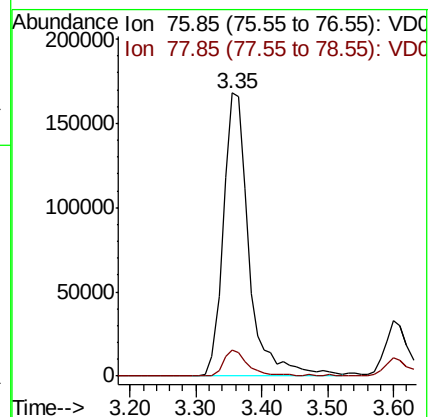
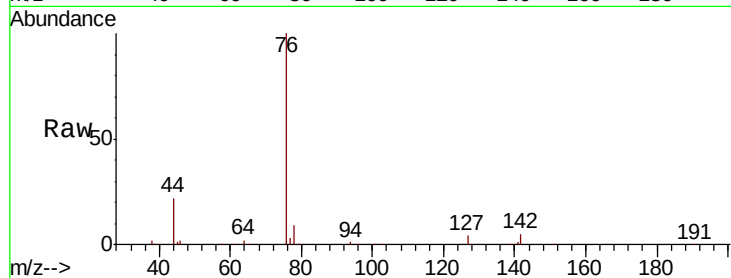
VD0710SBS01

Tot Ion: 76 Resp: 456370

Ion Ratio Lower Upper

76 100

78 9.2 8.0 12.0



#18

Methyl Acetate

Concen: 37.054 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.01 min

Lab File: VD063058.D

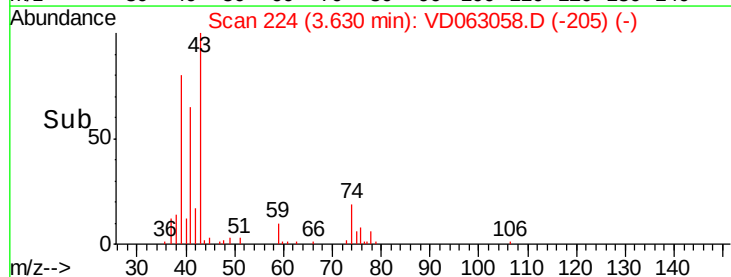
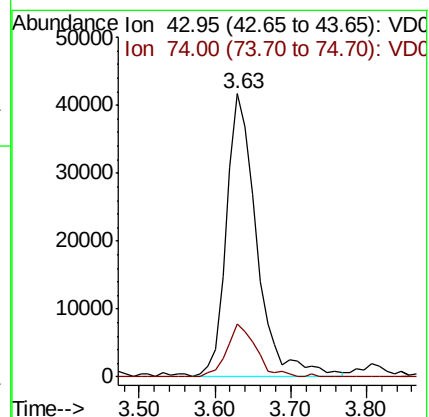
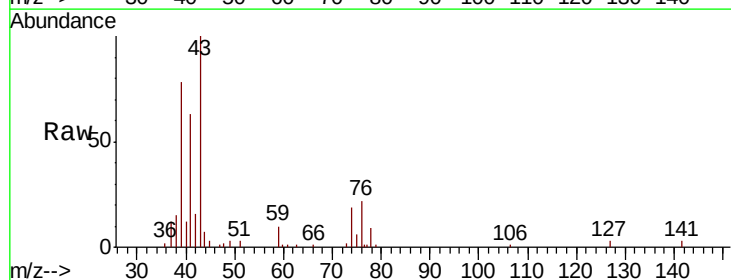
Acq: 10 Jul 2019 15:22

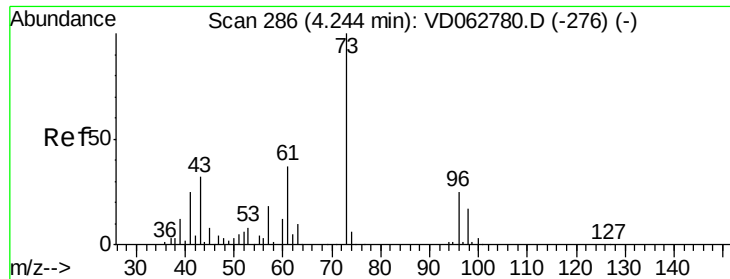
Tgt Ion: 43 Resp: 116363

Ion Ratio Lower Upper

43 100

74 18.8 15.2 22.8

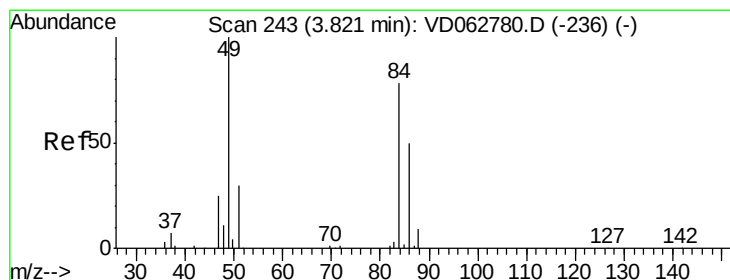
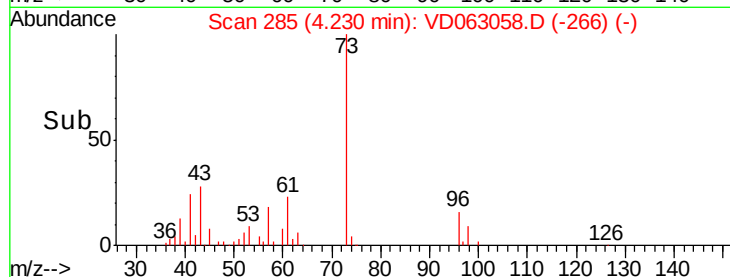
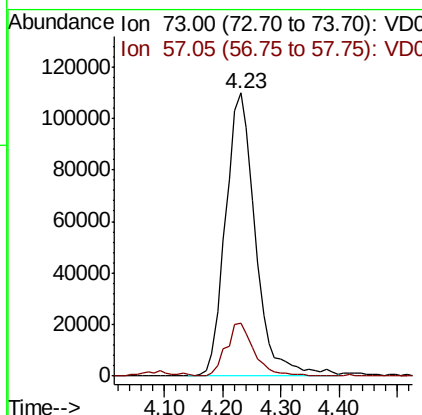
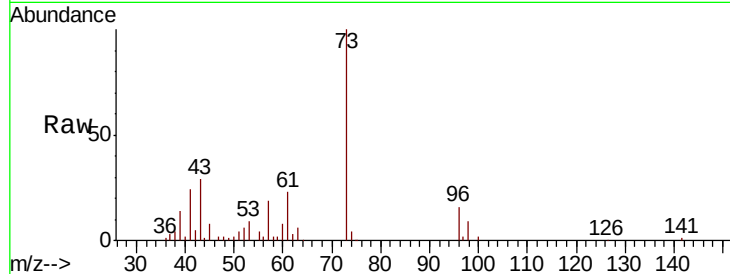




#19
Methyl tert-butyl Ether
Concen: 23.844 ug/l
RT: 4.23 min Scan# 285
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

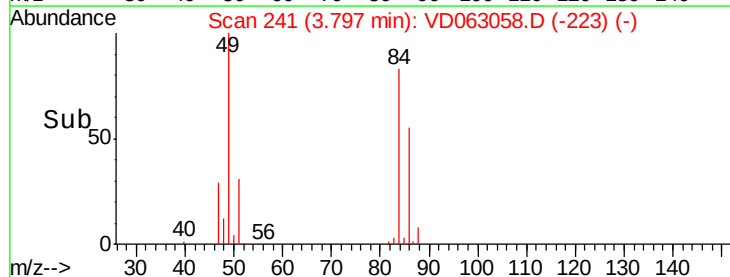
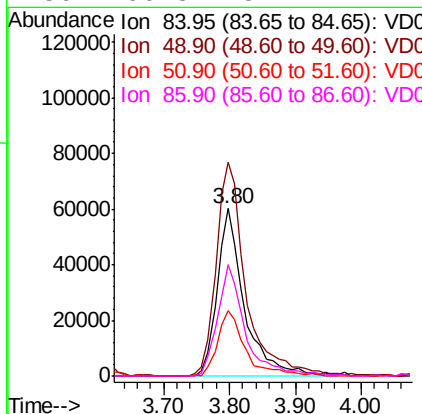
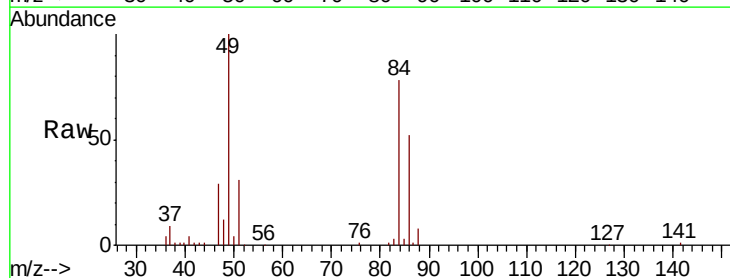
Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

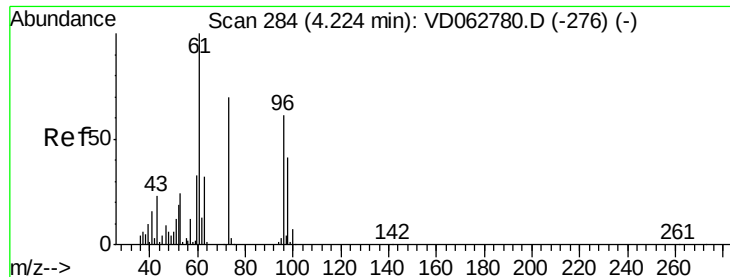
Tot Ion: 73 Resp: 392045
Ion Ratio Lower Upper
73 100
57 18.8 14.3 21.5



#20
Methylene Chloride
Concen: 21.724 ug/l
RT: 3.80 min Scan# 241
Delta R.T. -0.02 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 84 Resp: 172349
Ion Ratio Lower Upper
84 100
49 127.5 102.9 154.3
51 39.1 31.2 46.8
86 66.3 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 22.203 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

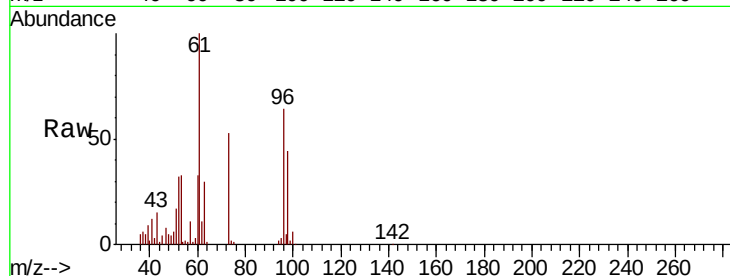
Tot Ion: 96 Resp: 179559

Ion Ratio Lower Upper

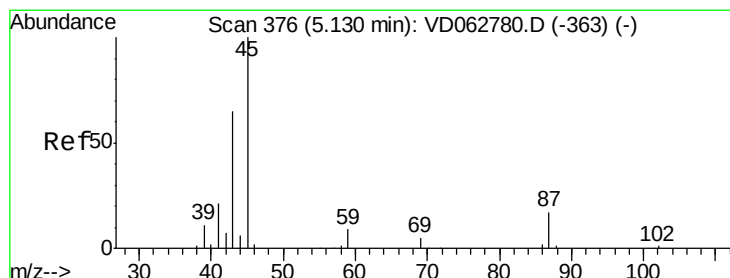
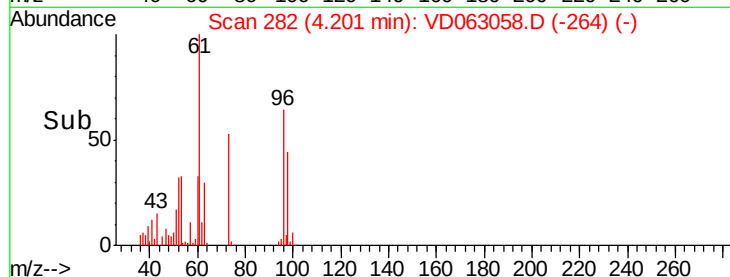
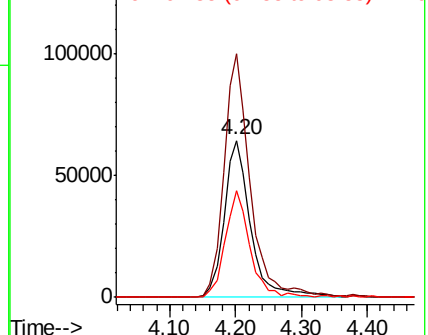
96 100

61 155.5 131.0 196.4

98 67.9 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: 24.359 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Tgt Ion: 45 Resp: 555960

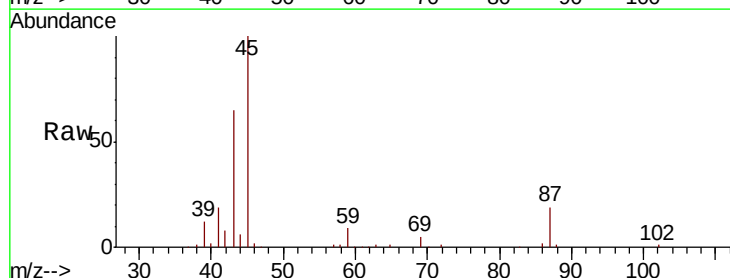
Ion Ratio Lower Upper

45 100

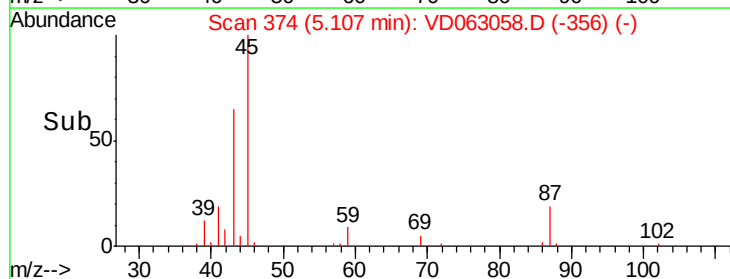
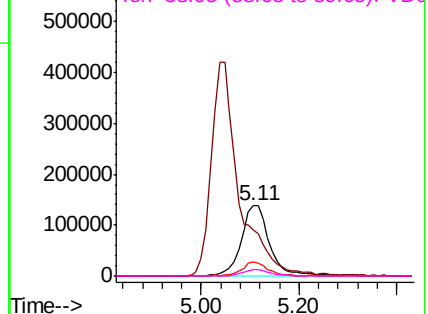
43 65.2 53.4 80.0

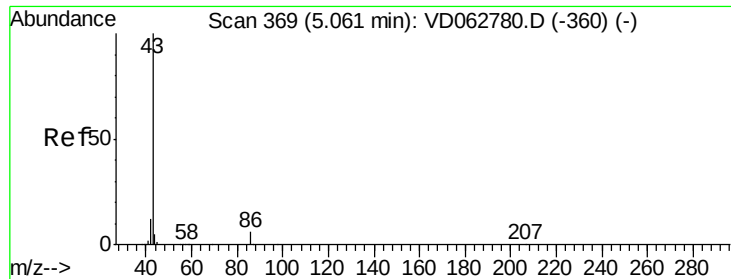
87 19.4 14.6 22.0

59 9.2 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: 115.749 ug/l

RT: 5.05 min Scan# 368

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

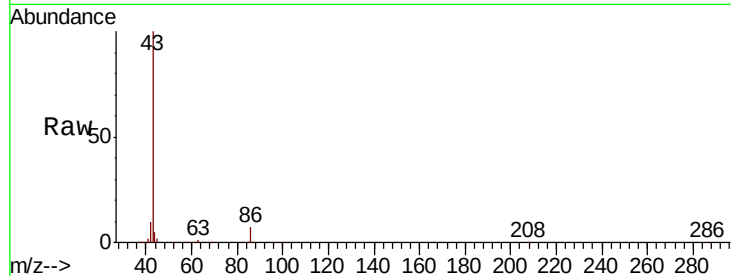
VD0710SBS01

Tot Ion: 43 Resp: 1653084

Ion Ratio Lower Upper

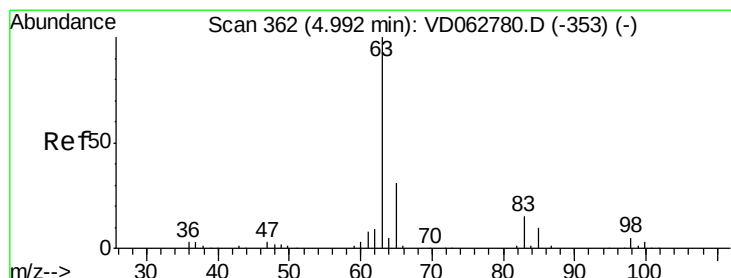
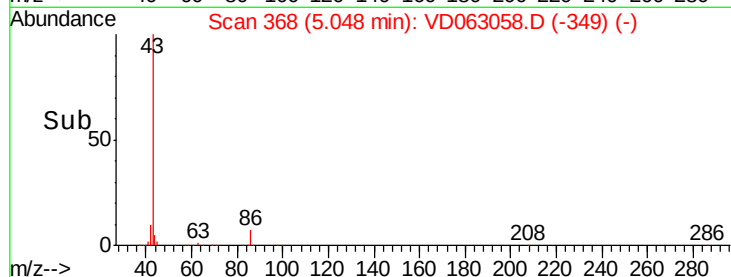
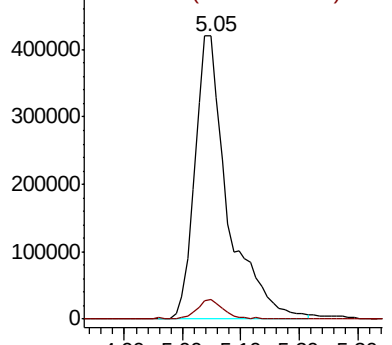
43 100

86 6.7 4.7 7.1



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 22.643 ug/l

RT: 4.97 min Scan# 360

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

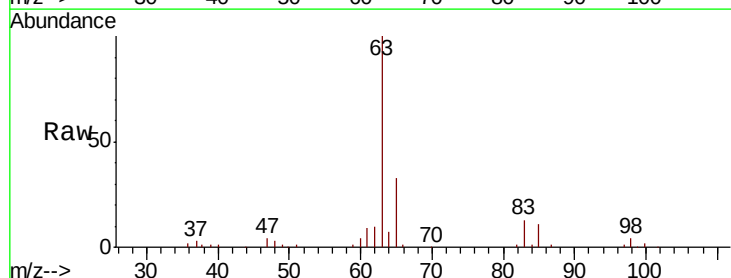
Tgt Ion: 63 Resp: 336478

Ion Ratio Lower Upper

63 100

98 4.2 2.3 6.9

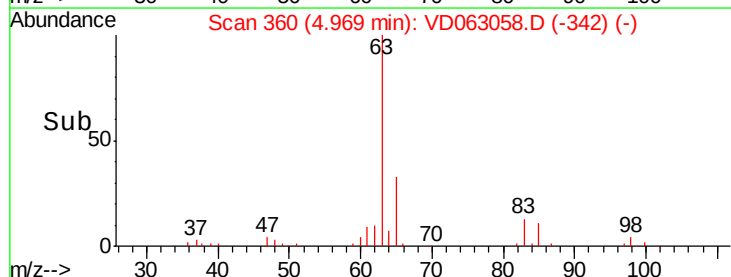
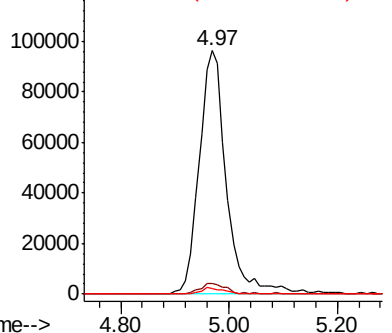
100 2.5 1.7 5.1

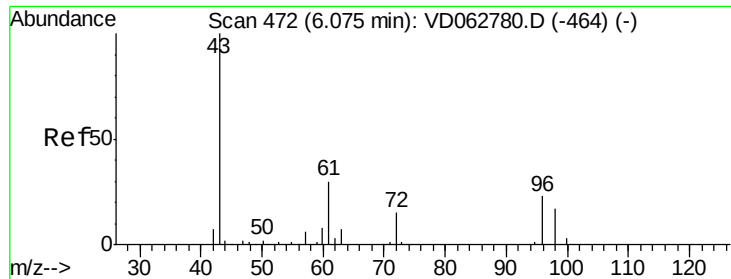


Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 97.95 (97.65 to 98.65): VDC

Ion 99.95 (99.65 to 100.65): VDC





#25

2-Butanone

Concen: 123.646 ug/l

RT: 6.06 min Scan# 471

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

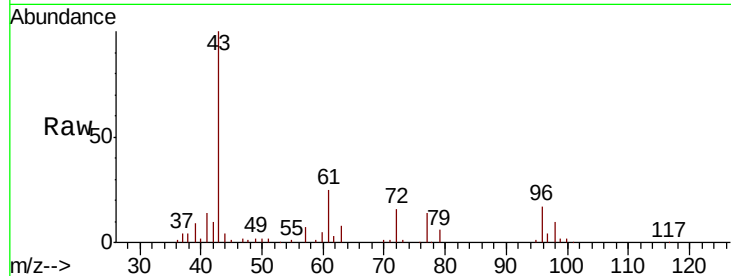
VD0710SBS01

Tot Ion: 43 Resp: 240570

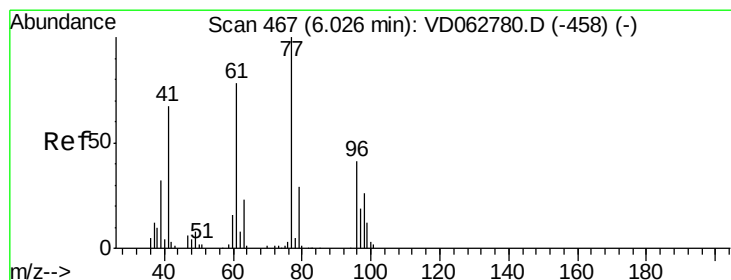
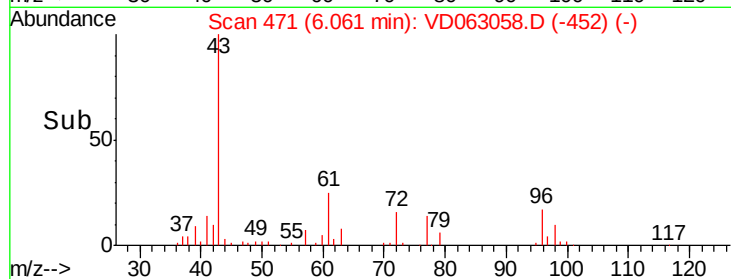
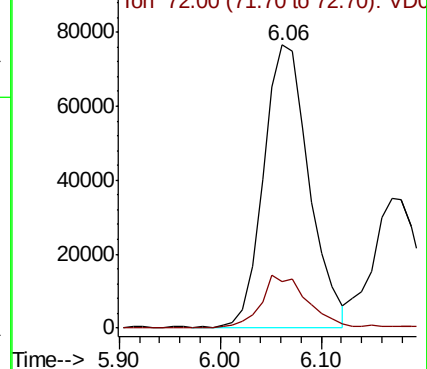
Ion Ratio Lower Upper

43 100

72 16.3 11.9 17.9



Abundance Ion 42.95 (42.65 to 43.65): VDC



#26

2,2-Dichloropropane

Concen: 21.535 ug/l

RT: 6.01 min Scan# 466

Delta R.T. -0.01 min

Lab File: VD063058.D

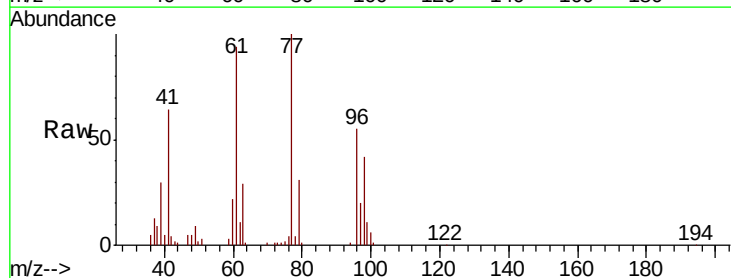
Acq: 10 Jul 2019 15:22

Tgt Ion: 77 Resp: 339189

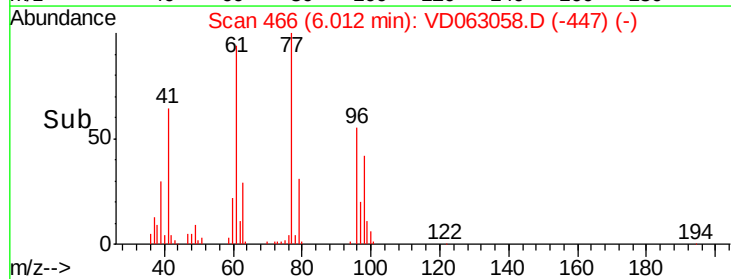
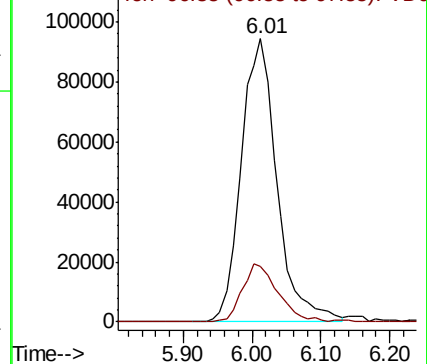
Ion Ratio Lower Upper

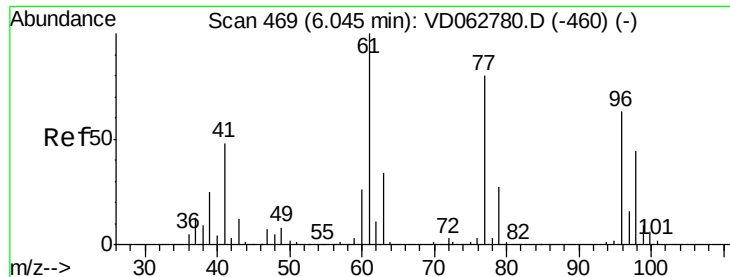
77 100

97 19.8 9.5 28.5



Abundance Ion 76.95 (76.65 to 77.65): VDC



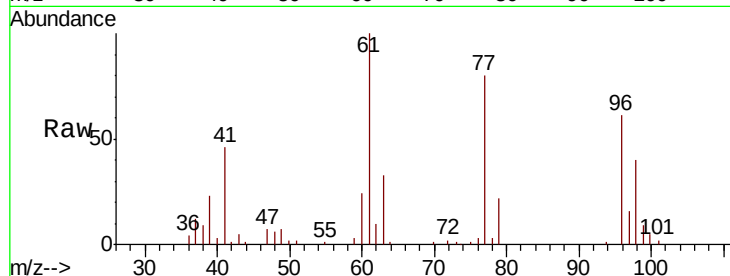


#27

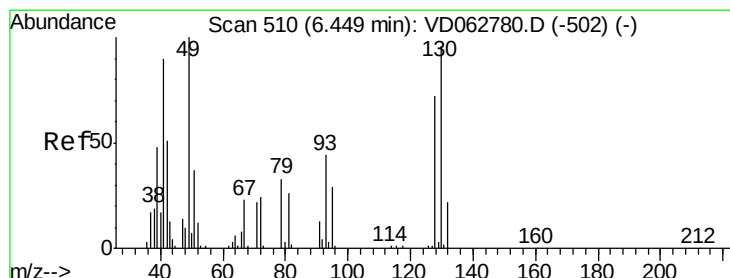
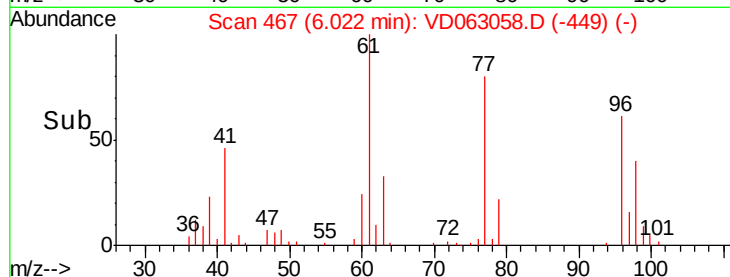
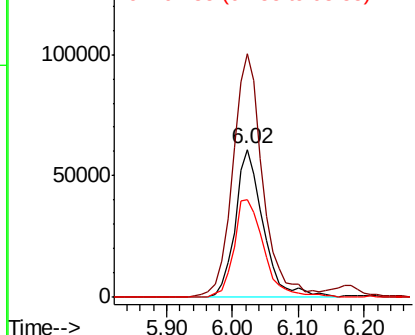
cis-1,2-Dichloroethene
Concen: 21.237 ug/l
RT: 6.02 min Scan# 467
Delta R.T. -0.02 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

Tot Ion: 96 Resp: 181624
Ion Ratio Lower Upper
96 100
61 164.2 0.0 316.0
98 65.6 0.0 138.4



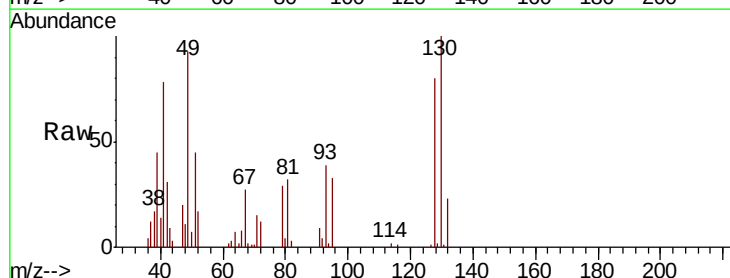
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



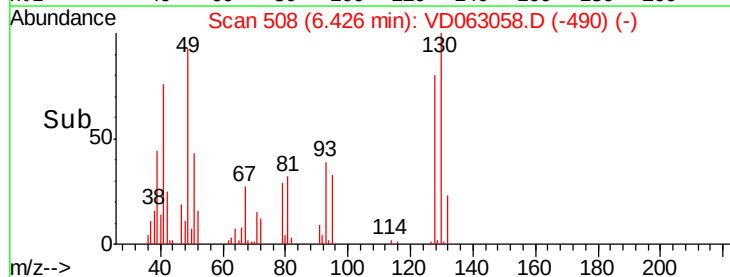
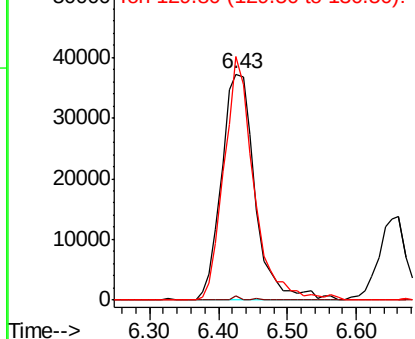
#28

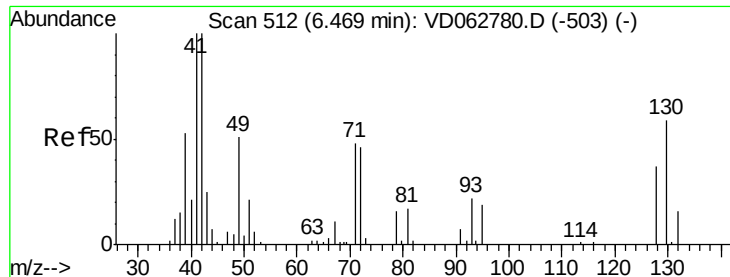
Bromochloromethane
Concen: 24.095 ug/l
RT: 6.43 min Scan# 508
Delta R.T. -0.02 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 49 Resp: 126107
Ion Ratio Lower Upper
49 100
129 2.1 0.0 5.6
130 107.7 76.6 114.8



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





#29

Tetrahydrofuran

Concen: 125.835 ug/l

RT: 6.46 min Scan# 511

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

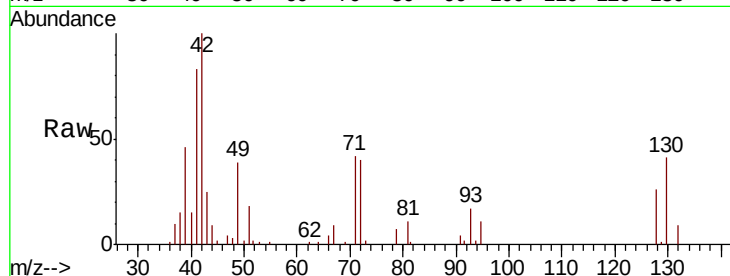
Tot Ion: 42 Resp: 115838

Ion Ratio Lower Upper

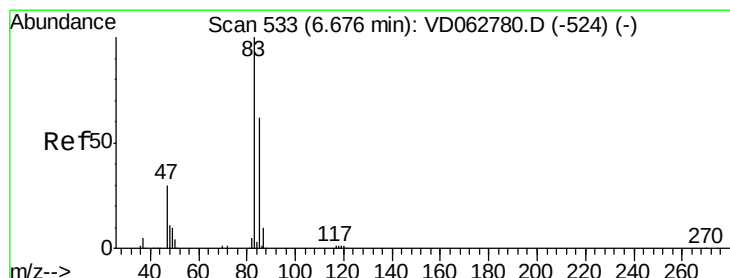
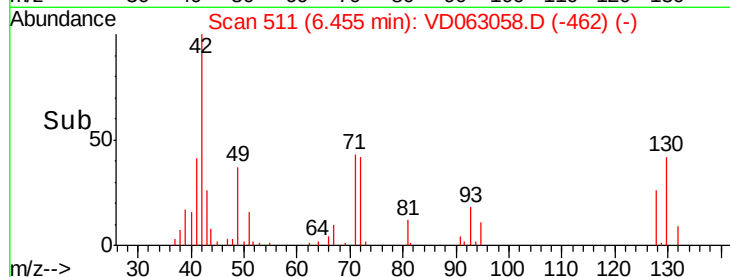
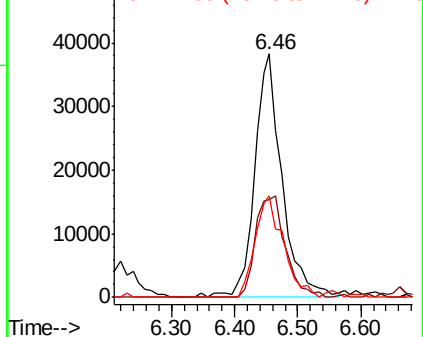
42 100

72 45.3 35.0 52.6

71 42.9 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: 21.800 ug/l

RT: 6.65 min Scan# 531

Delta R.T. -0.02 min

Lab File: VD063058.D

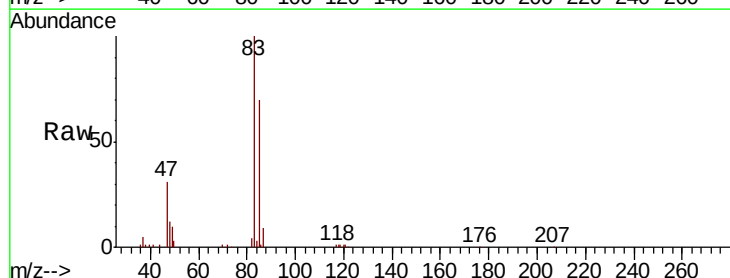
Acq: 10 Jul 2019 15:22

Tgt Ion: 83 Resp: 393967

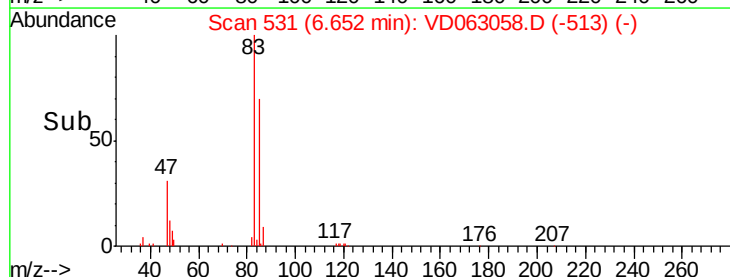
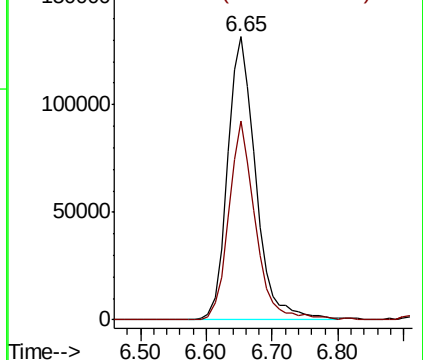
Ion Ratio Lower Upper

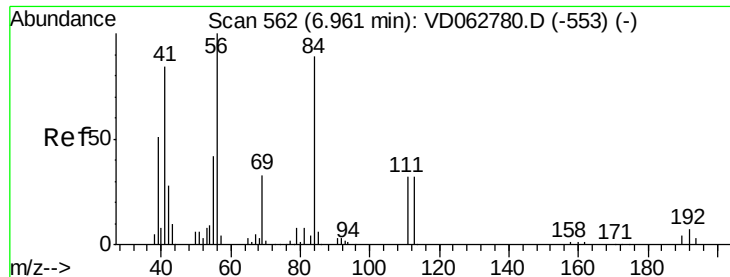
83 100

85 70.3 49.8 74.6



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

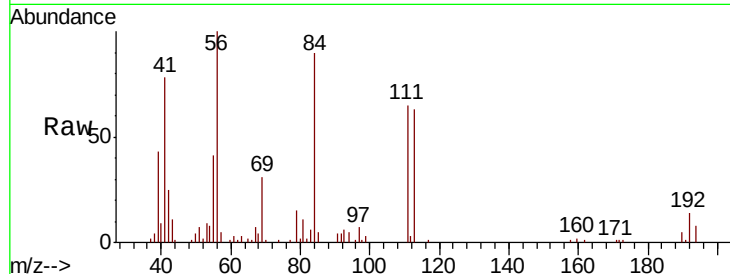




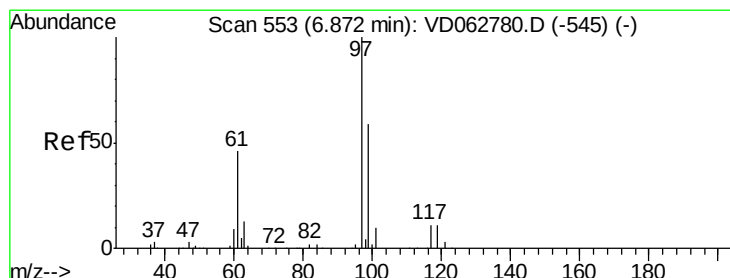
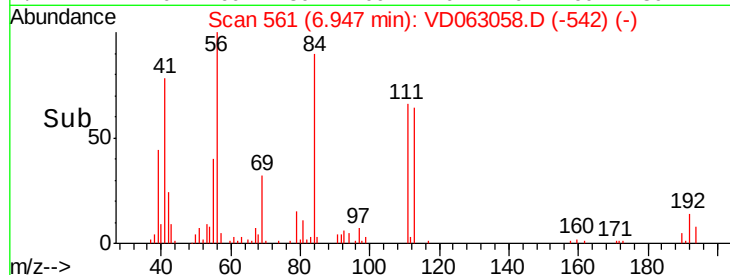
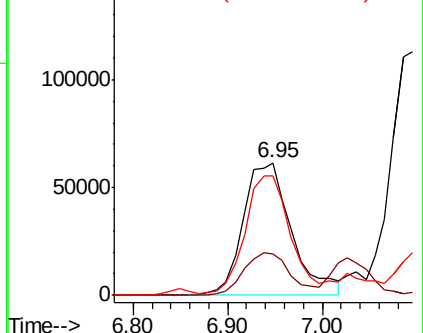
#31
Cyclohexane
Concen: 22.414 ug/l
RT: 6.95 min Scan# 561
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

Tot Ion: 56 Resp: 218959
Ion Ratio Lower Upper
56 100
69 31.4 26.6 39.8
84 89.9 75.5 113.3

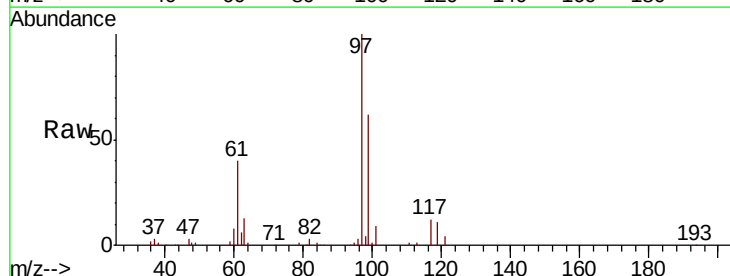


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

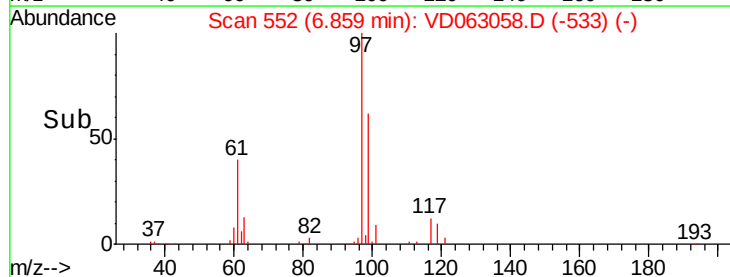
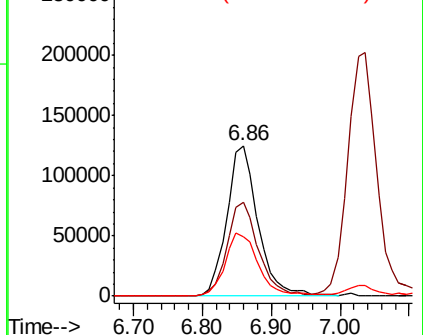


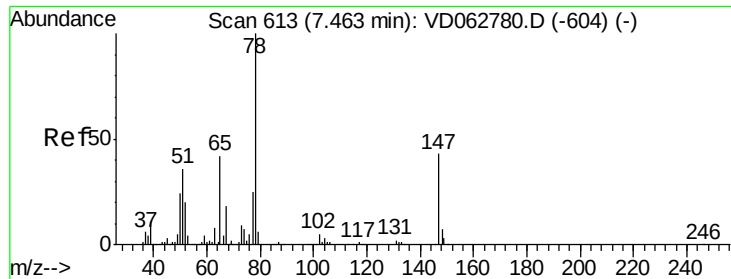
#32
1,1,1-Trichloroethane
Concen: 20.820 ug/l
RT: 6.86 min Scan# 552
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 97 Resp: 391888
Ion Ratio Lower Upper
97 100
99 62.4 47.4 71.2
61 39.8 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

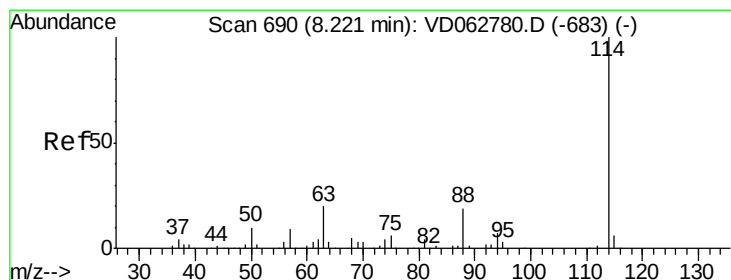
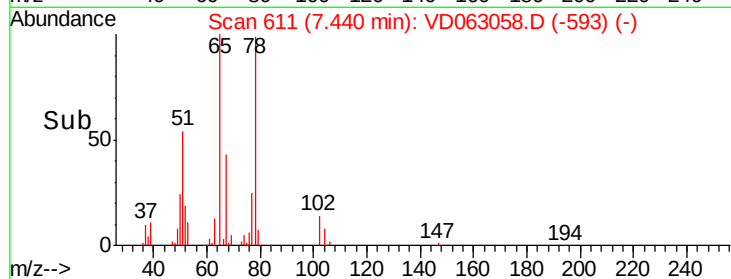
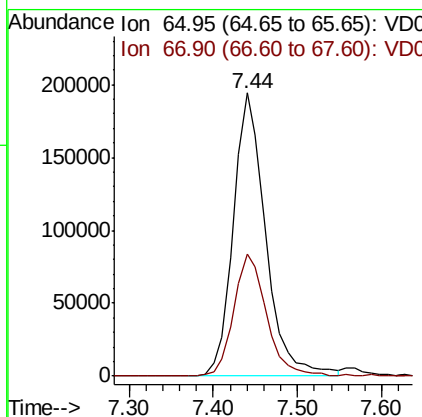
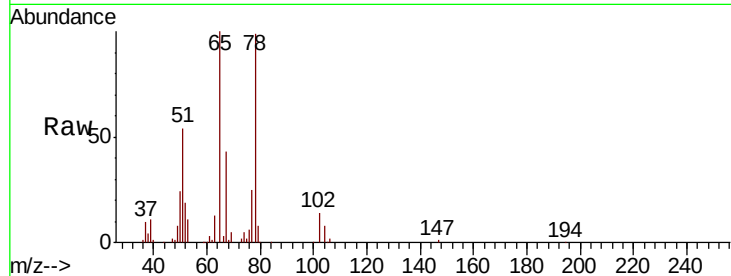




#33
 1,2-Dichloroethane-d4
 Concen: 49.957 ug/l
 RT: 7.44 min Scan# 611
 Delta R.T. -0.02 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

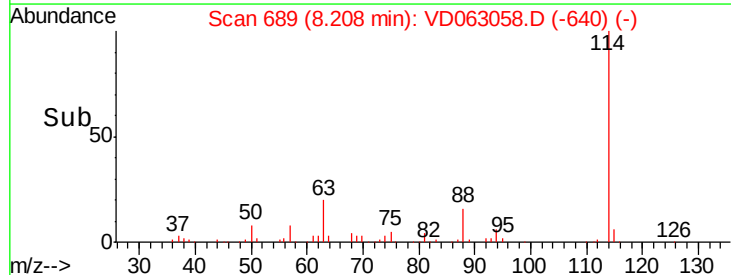
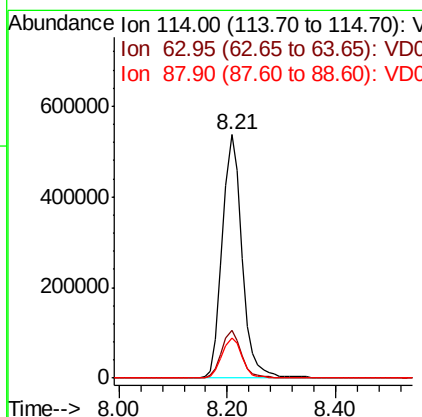
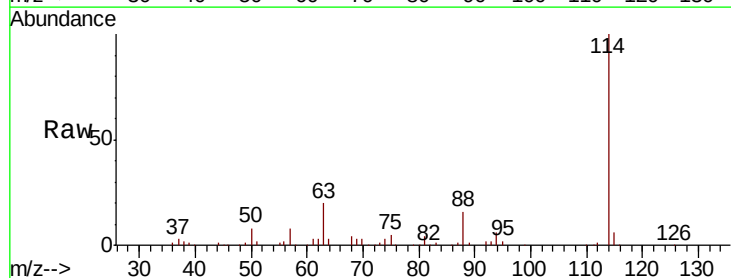
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0710SBS01

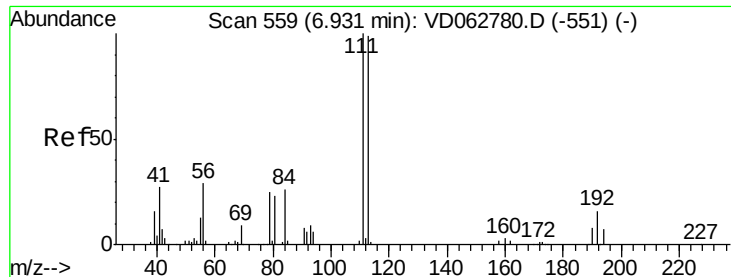
Tot Ion: 65 Resp: 519694
 Ion Ratio Lower Upper
 65 100
 67 43.2 0.0 87.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.21 min Scan# 689
 Delta R.T. -0.01 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

Tgt Ion: 114 Resp: 1362271
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.0
 88 16.5 0.0 38.8





#35

Dibromofluoromethane

Concen: 50.634 ug/l

RT: 6.91 min Scan# 557

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

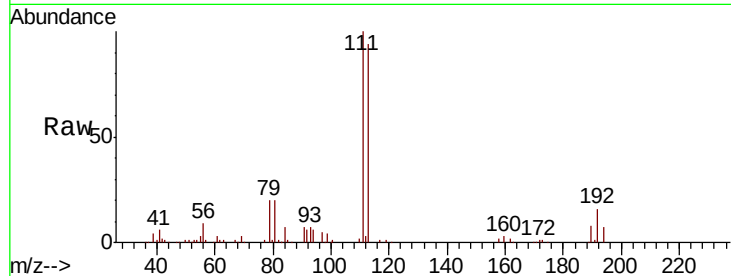
Tot Ion:113 Resp: 581610

Ion Ratio Lower Upper

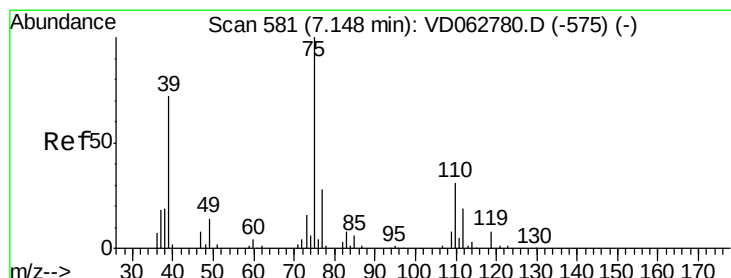
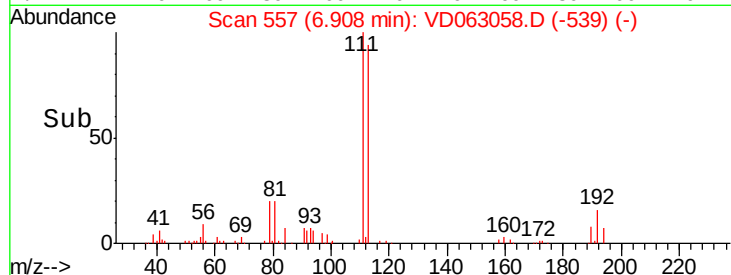
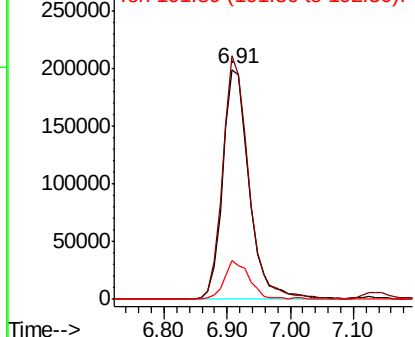
113 100

111 105.9 81.2 121.8

192 16.9 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: 19.847 ug/l

RT: 7.13 min Scan# 580

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

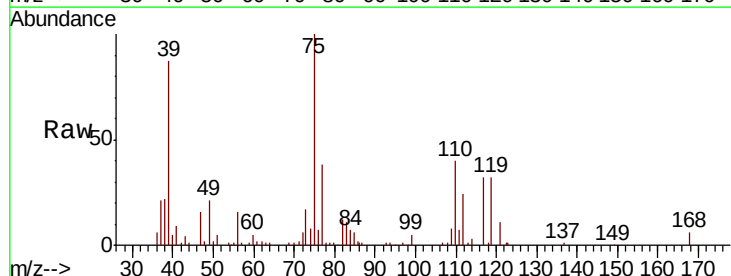
Tgt Ion: 75 Resp: 255944

Ion Ratio Lower Upper

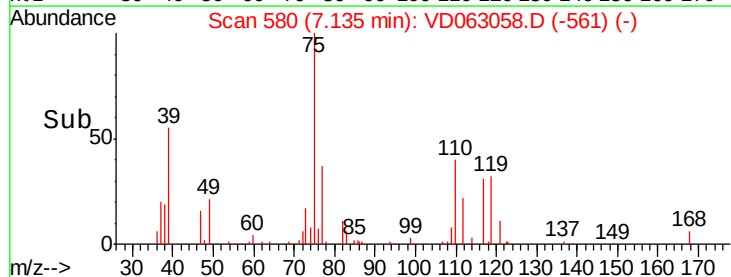
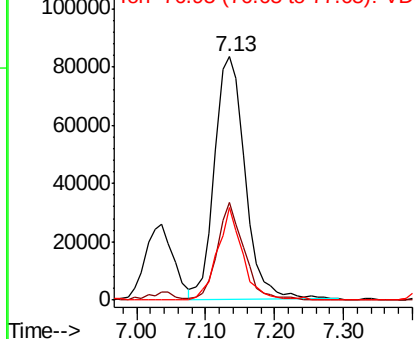
75 100

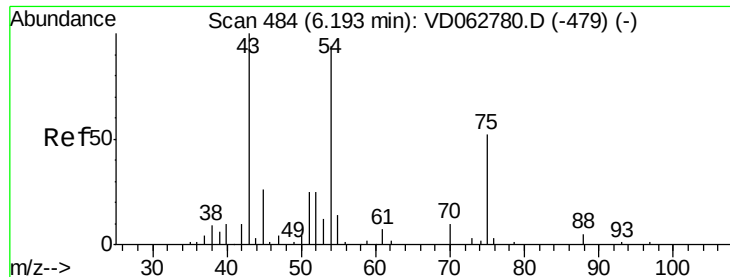
110 39.9 15.0 45.1

77 38.0 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

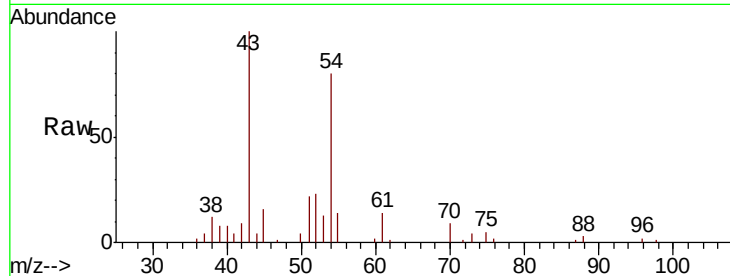




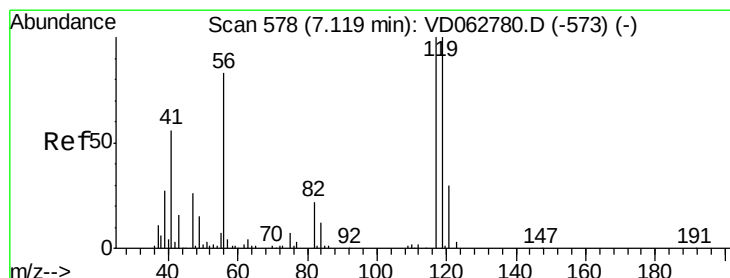
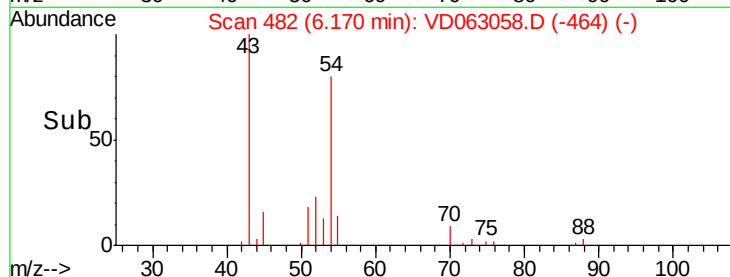
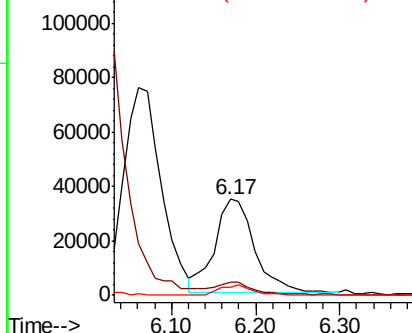
#37
Ethyl Acetate
Concen: 20.518 ug/l
RT: 6.17 min Scan# 482
Delta R.T. -0.02 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

Tot Ion: 43 Resp: 114667
Ion Ratio Lower Upper
43 100
61 14.4 11.6 17.4
70 8.7 6.4 9.6

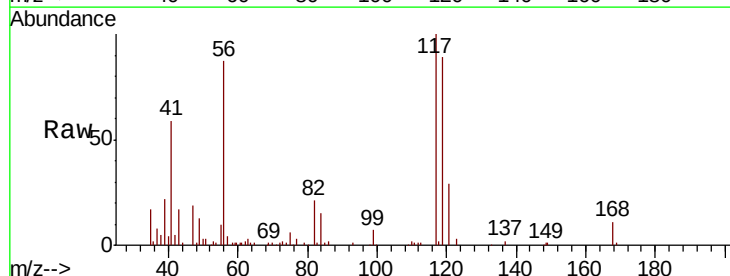


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 70.00 (69.70 to 70.70): VDC

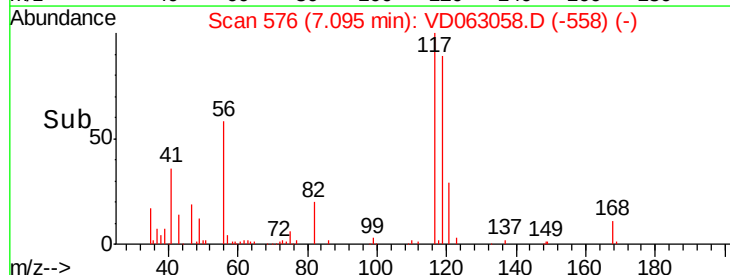
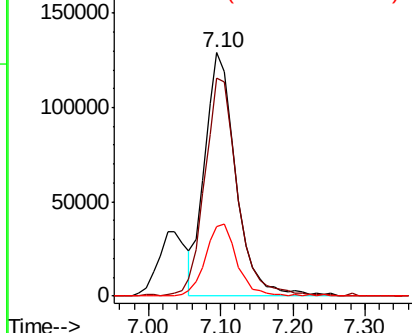


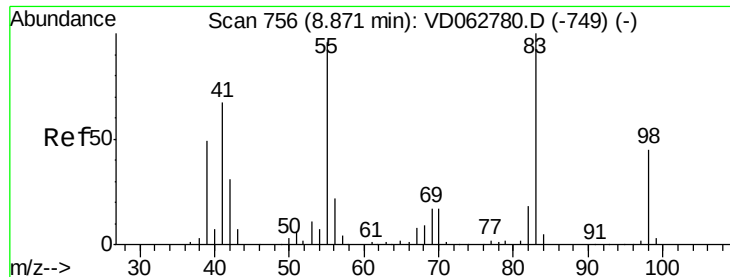
#38
Carbon Tetrachloride
Concen: 19.620 ug/l
RT: 7.10 min Scan# 576
Delta R.T. -0.02 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 117 Resp: 380523
Ion Ratio Lower Upper
117 100
119 89.3 75.4 113.2
121 28.7 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

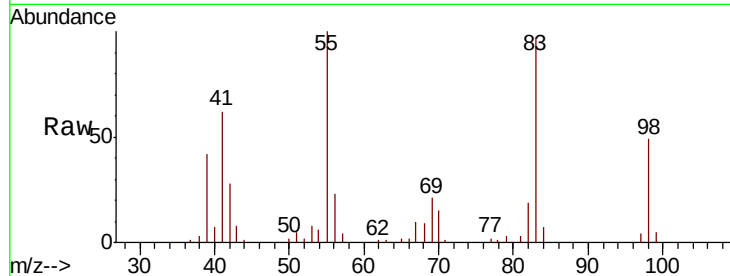




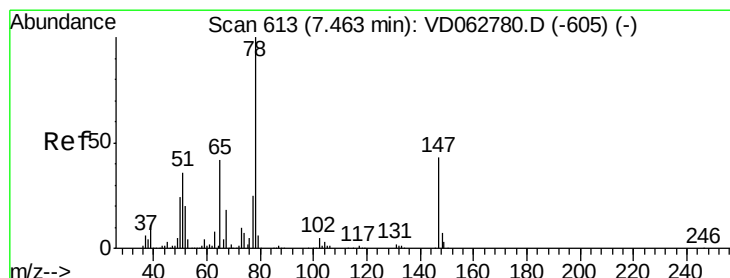
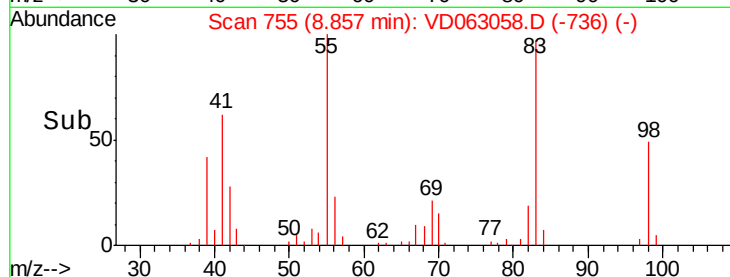
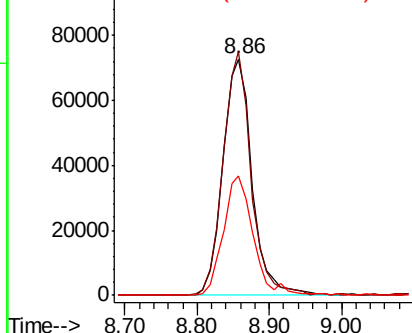
#39
Methylvlcyclohexane
Concen: 17.905 ug/l
RT: 8.86 min Scan# 755
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

Tot Ion: 83 Resp: 203250
Ion Ratio Lower Upper
83 100
55 103.0 76.6 115.0
98 50.4 35.7 53.5

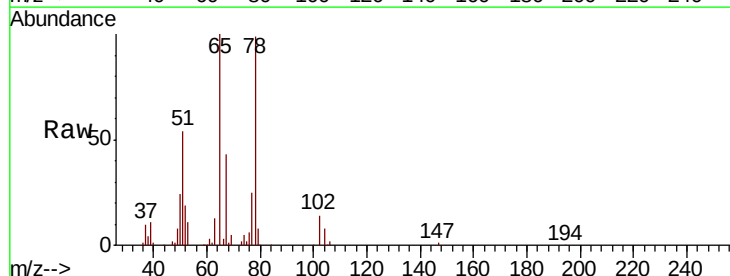


Abundance Ion 83.05 (82.75 to 83.75): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.05 (97.75 to 98.75): VDC

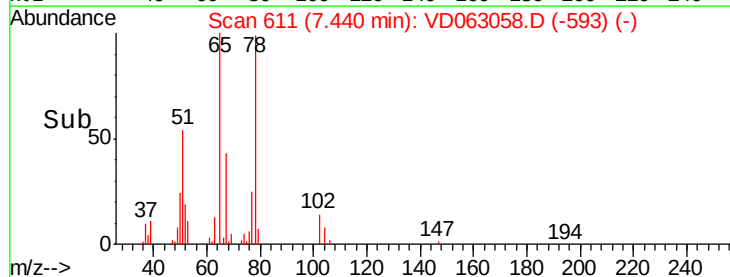
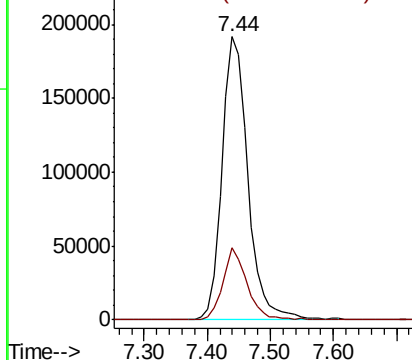


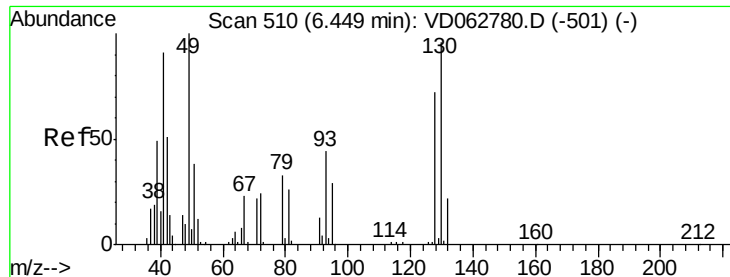
#40
Benzene
Concen: 21.157 ug/l
RT: 7.44 min Scan# 611
Delta R.T. -0.02 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 78 Resp: 547678
Ion Ratio Lower Upper
78 100
77 25.7 20.2 30.2



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

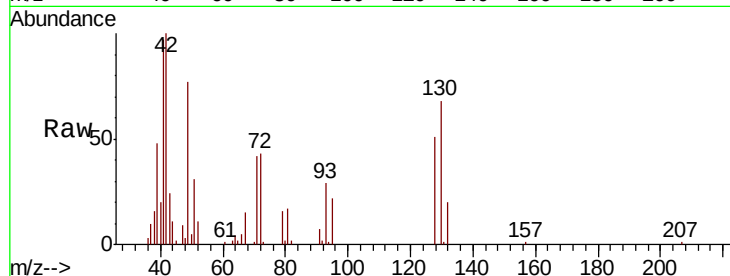




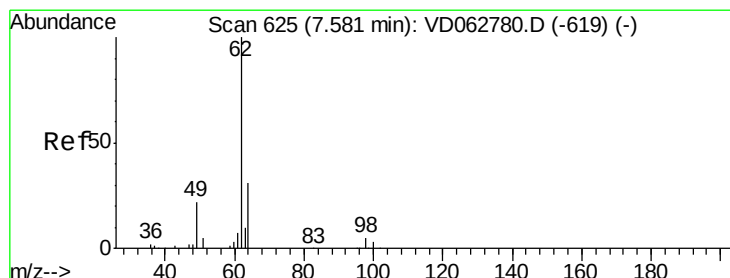
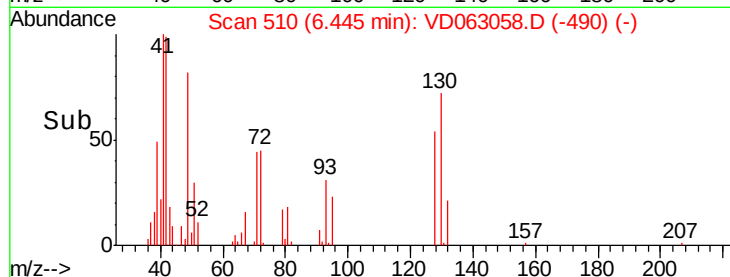
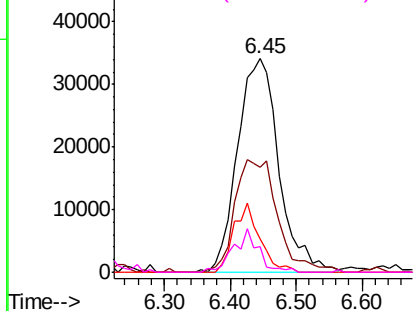
#41
Methacrylonitrile
Concen: 22.133 ug/l
RT: 6.45 min Scan# 510
Delta R.T. -0.00 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

Tot Ion: 41 Resp: 150523
Ion Ratio Lower Upper
41 100
39 49.4 43.2 64.8
67 15.7 19.9 29.9#
52 11.8 10.2 15.4

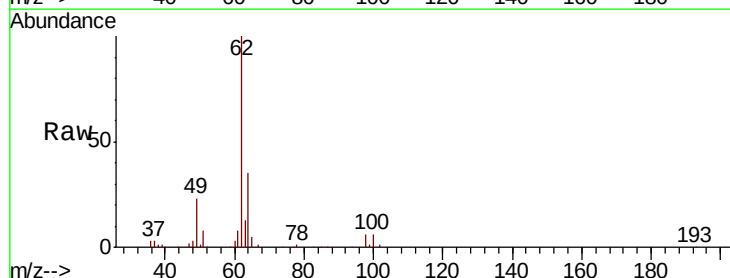


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

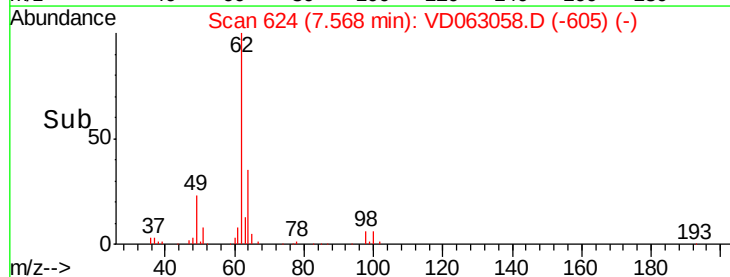
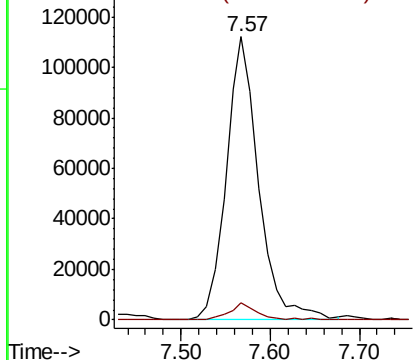


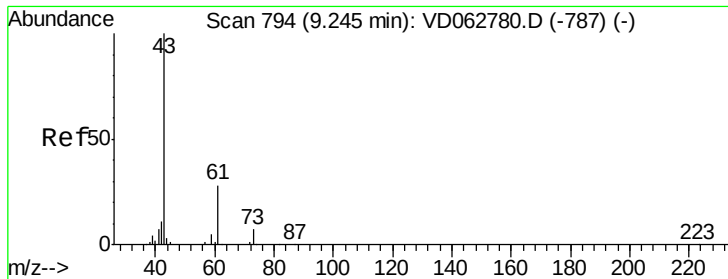
#42
1,2-Dichloroethane
Concen: 20.133 ug/l
RT: 7.57 min Scan# 624
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 62 Resp: 284309
Ion Ratio Lower Upper
62 100
98 6.1 0.0 10.0



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



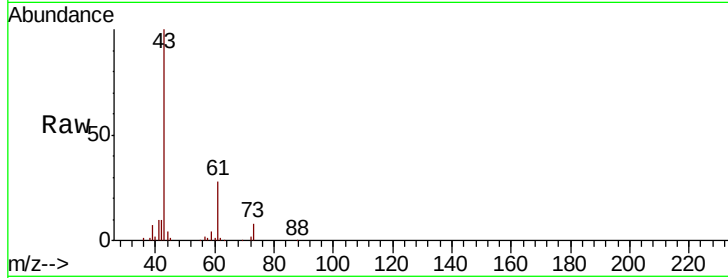


#43

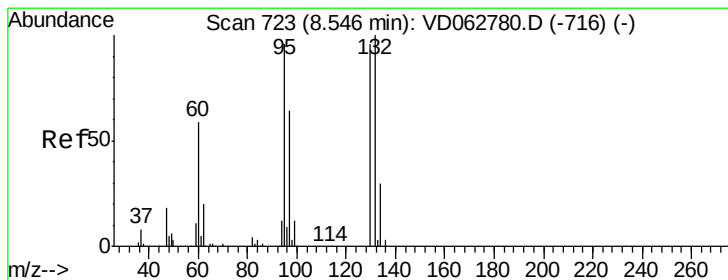
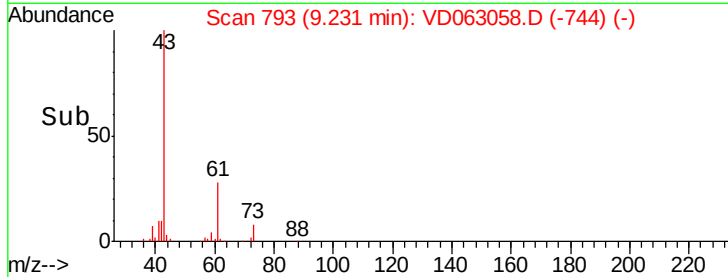
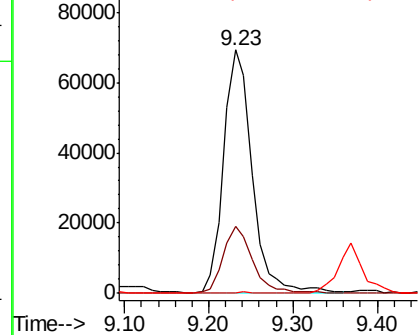
Isopropyl Acetate
 Concen: 24.261 ug/l
 RT: 9.23 min Scan# 793
 Delta R.T. -0.01 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0710SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	27.8	22.4	33.6
87	0.0	0.3	0.5#



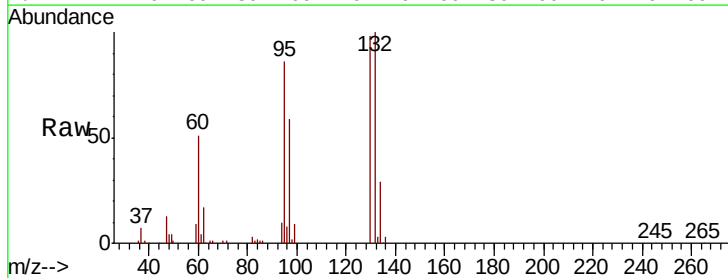
Abundance Ion 42.95 (42.65 to 43.65): VDC
 Ion 60.95 (60.65 to 61.65): VDC
 Ion 87.00 (86.70 to 87.70): VDC



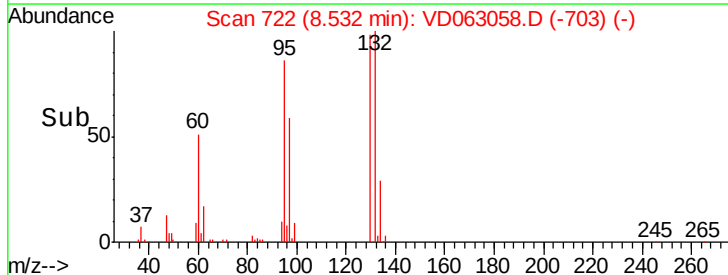
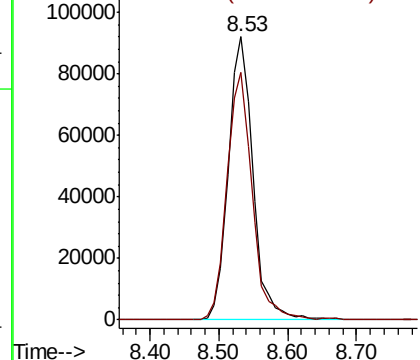
#44

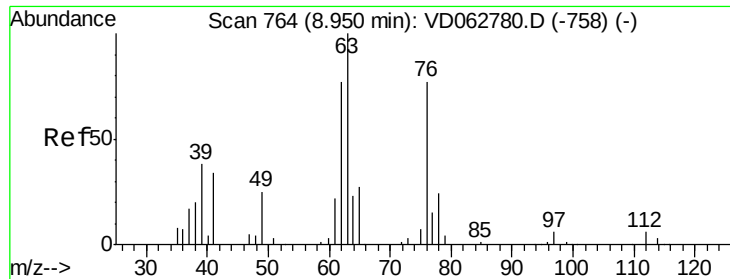
Trichloroethene
 Concen: 22.448 ug/l
 RT: 8.53 min Scan# 722
 Delta R.T. -0.01 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
130	100		
95	87.2	0.0	201.6



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





#45

1,2-Dichloropropane

Concen: 22.184 ug/l

RT: 8.93 min Scan# 762

Delta R.T. -0.02 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

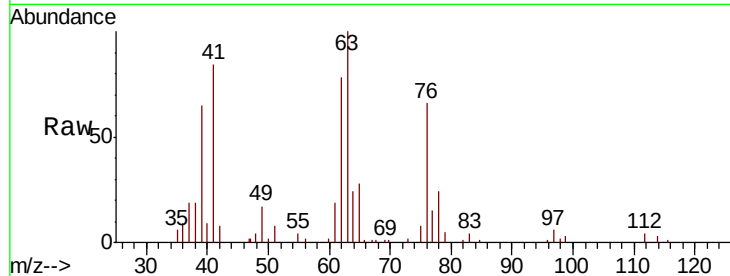
VD0710SBS01

Tot Ion: 63 Resp: 142789

Ion Ratio Lower Upper

63 100

65 27.6 24.2 36.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.93

60000

50000

40000

30000

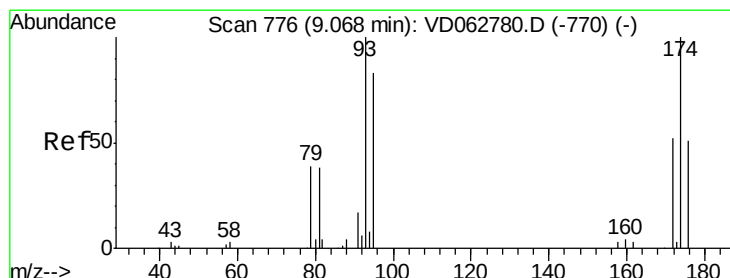
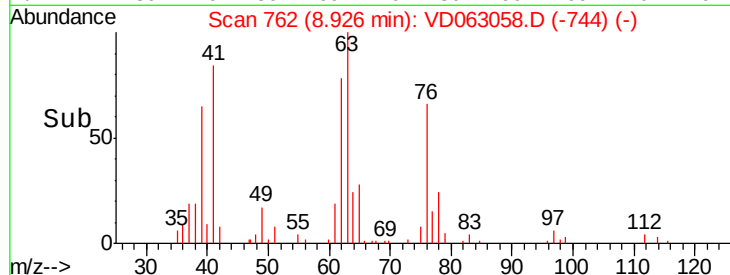
20000

10000

0

8.80 8.90 9.00 9.10

Time-->



#46

Dibromomethane

Concen: 21.937 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

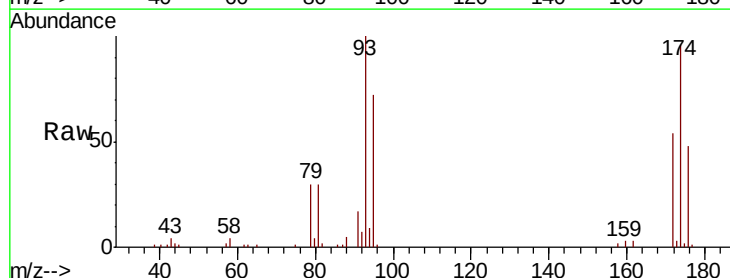
Tgt Ion: 93 Resp: 121293

Ion Ratio Lower Upper

93 100

95 71.6 66.6 100.0

174 96.1 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): V

9.05

60000

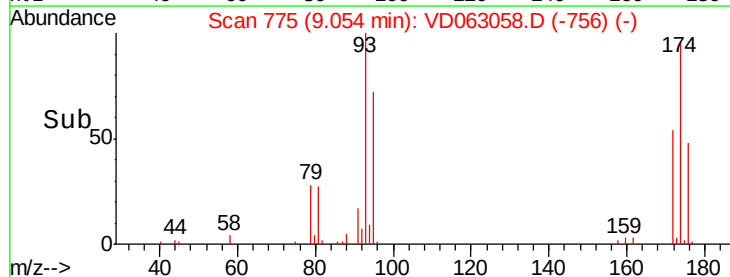
40000

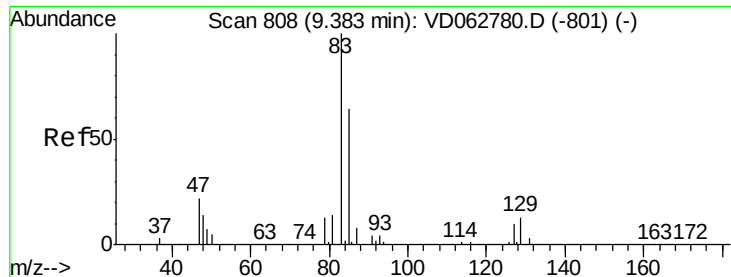
20000

0

8.90 9.00 9.10 9.20

Time-->





#47

Bromodichloromethane

Concen: 20.806 ug/l

RT: 9.37 min Scan# 807

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

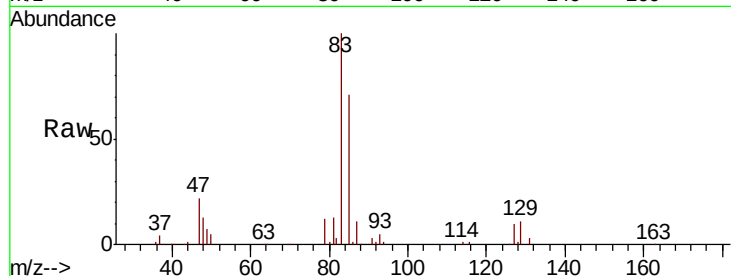
Tot Ion: 83 Resp: 298771

Ion Ratio Lower Upper

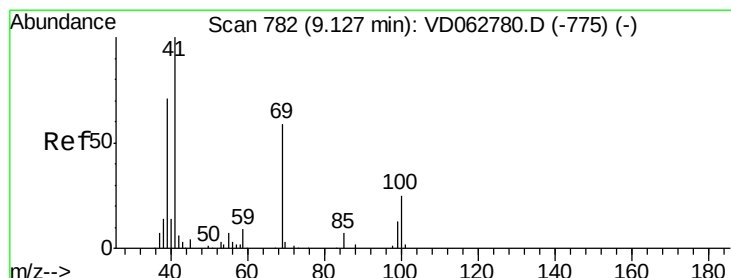
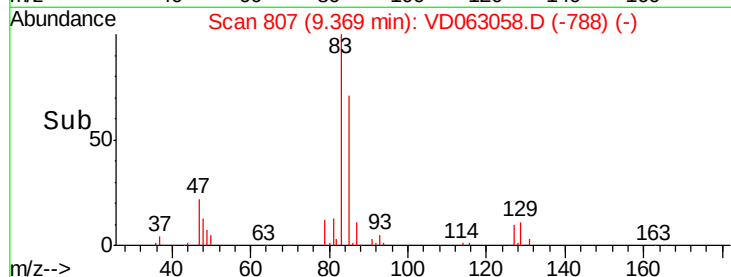
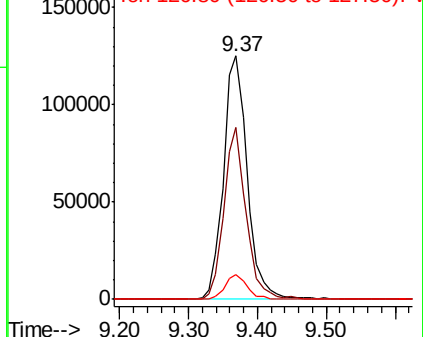
83 100

85 70.7 51.6 77.4

127 10.3 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: 22.386 ug/l

RT: 9.11 min Scan# 781

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

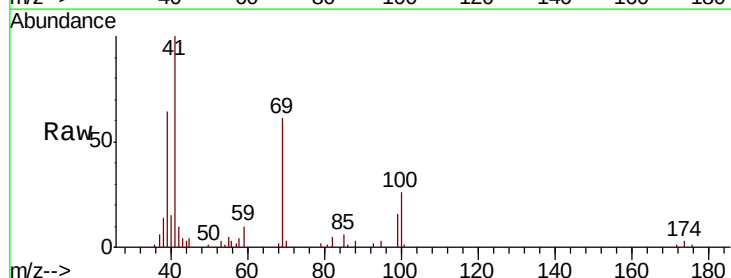
Tgt Ion: 41 Resp: 107552

Ion Ratio Lower Upper

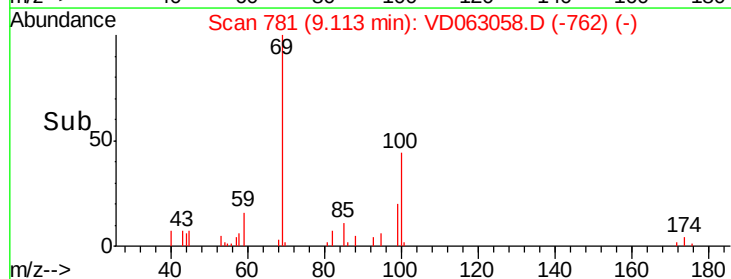
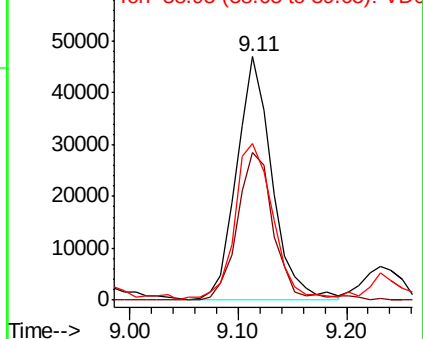
41 100

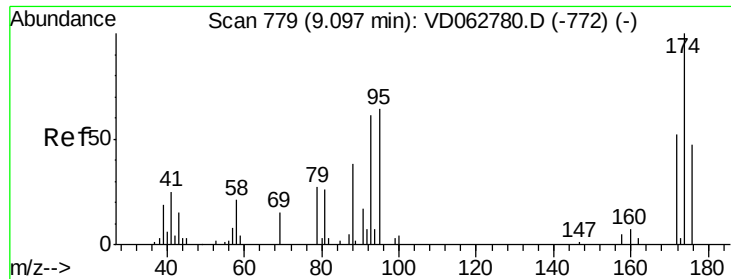
69 60.5 47.2 70.8

39 64.1 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

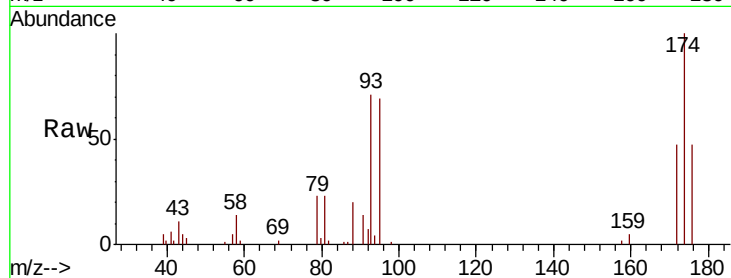




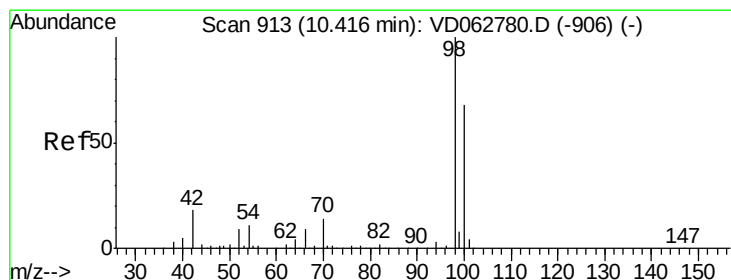
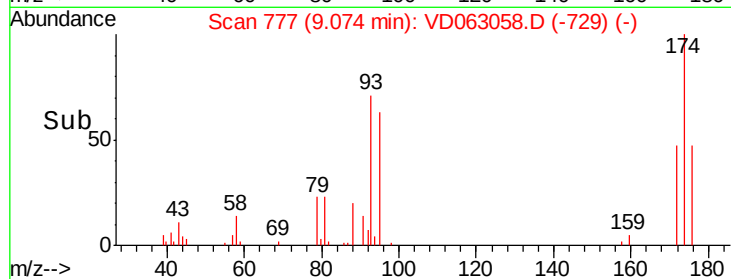
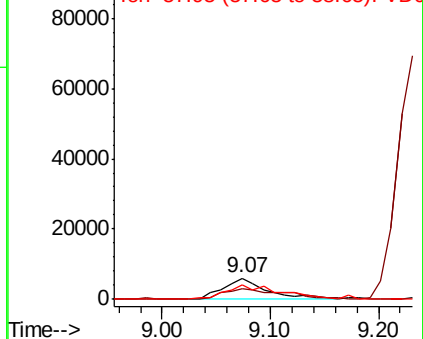
#49
1,4-Dioxane
Concen: 426.154 ug/l
RT: 9.07 min Scan# 777
Delta R.T. -0.02 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

Tot Ion: 88 Resp: 17034
Ion Ratio Lower Upper
88 100
43 52.9 32.1 48.1#
58 66.3 44.1 66.1#

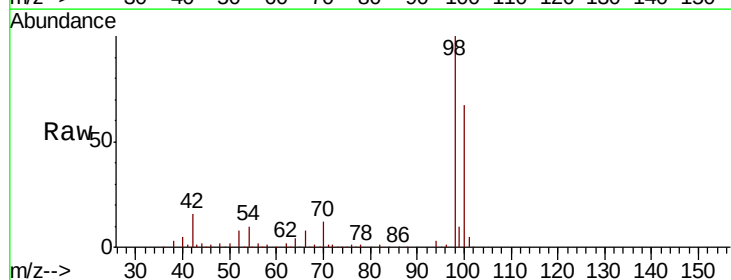


Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 57.95 (57.65 to 58.65): VDC

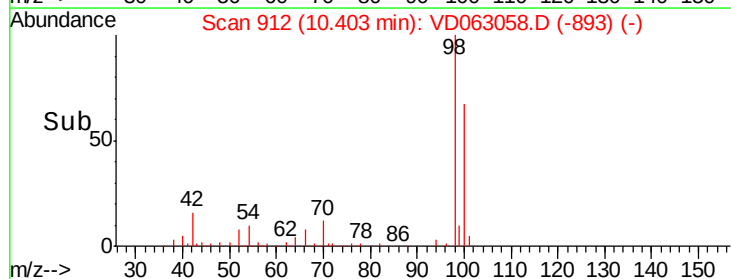
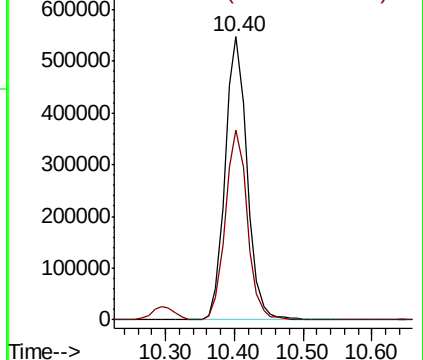


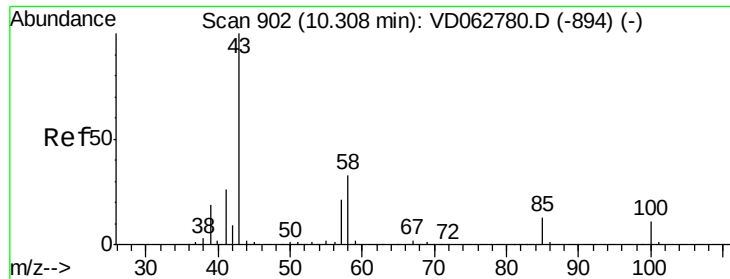
#50
Toluene-d8
Concen: 48.169 ug/l
RT: 10.40 min Scan# 912
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 98 Resp: 1204238
Ion Ratio Lower Upper
98 100
100 67.1 54.7 82.1



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

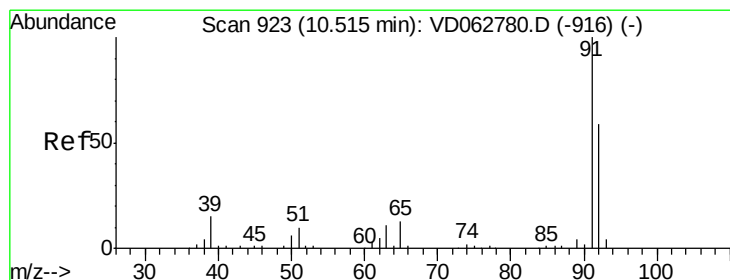
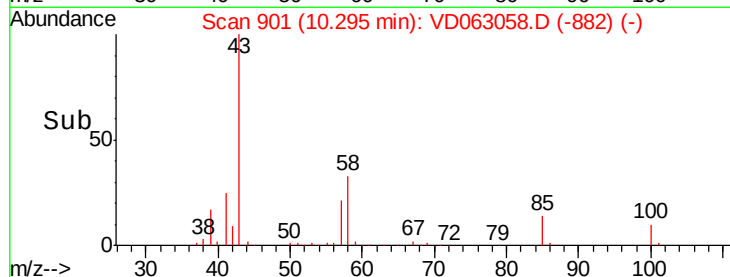
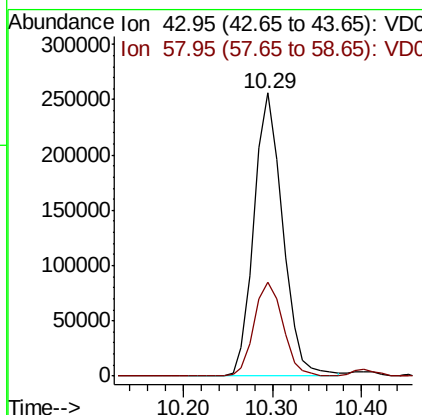
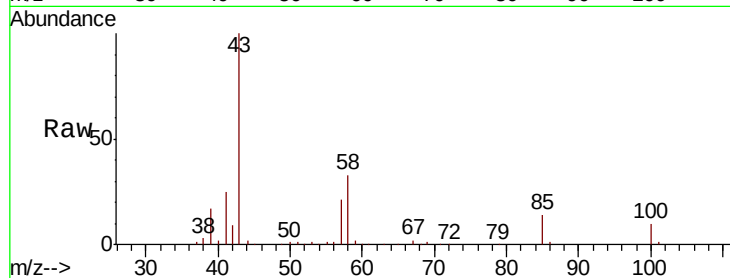




#51
 4-Methyl-2-Pentanone
 Concen: 118.860 ug/l
 RT: 10.29 min Scan# 901
 Delta R.T. -0.01 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

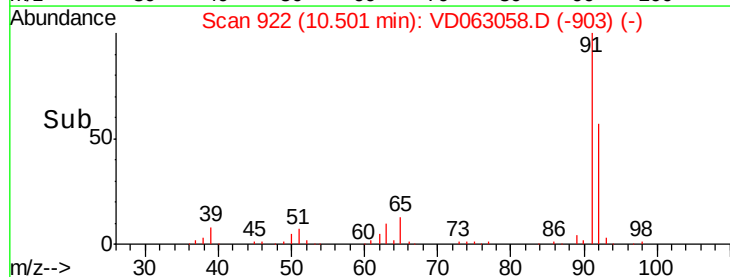
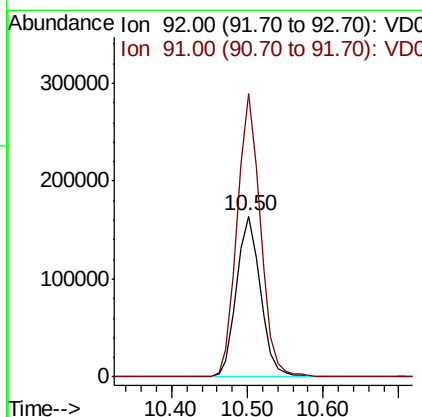
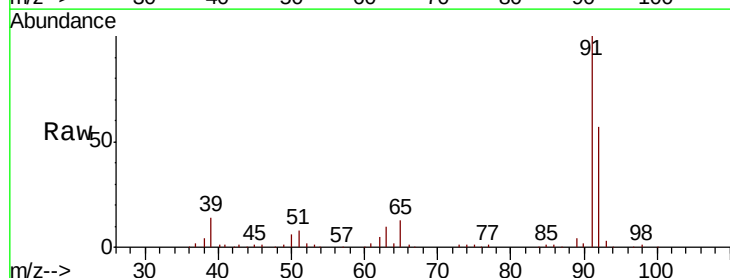
Instrument :
 MSVOA_D
 ClientSampleID :
 VD0710SBS01

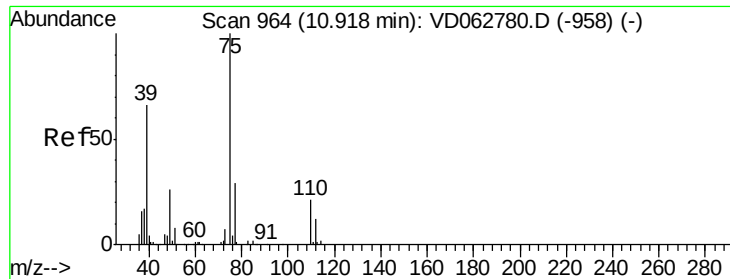
Tot Ion: 43 Resp: 569745
 Ion Ratio Lower Upper
 43 100
 58 33.3 26.6 40.0



#52
 Toluene
 Concen: 20.609 ug/l
 RT: 10.50 min Scan# 922
 Delta R.T. -0.01 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

Tgt Ion: 92 Resp: 358603
 Ion Ratio Lower Upper
 92 100
 91 176.0 136.3 204.5

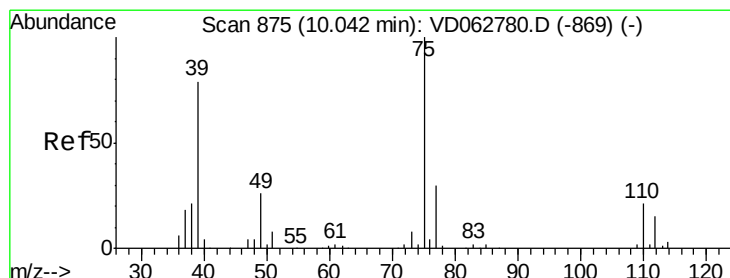
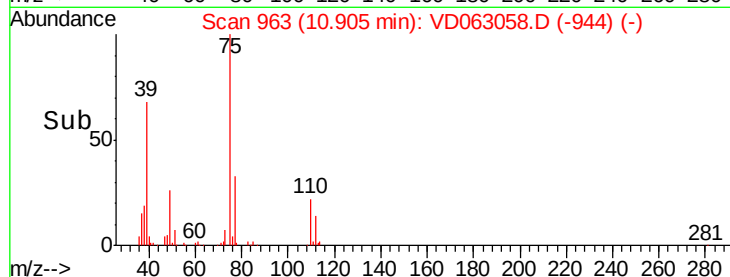
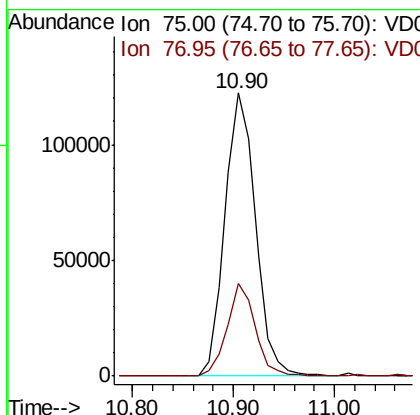
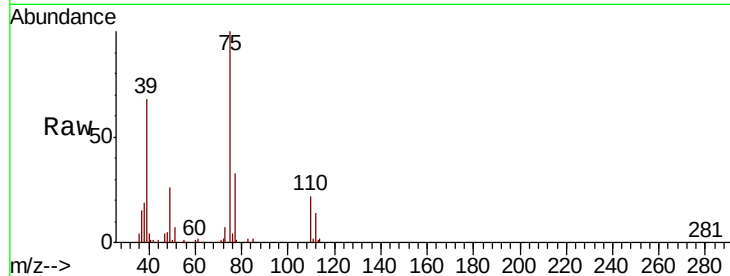




#53
t-1,3-Dichloropropene
Concen: 21.966 ug/l
RT: 10.90 min Scan# 963
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

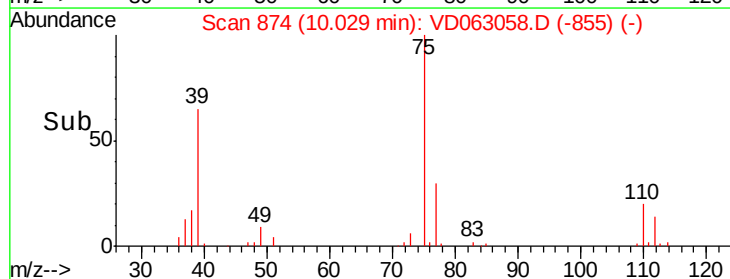
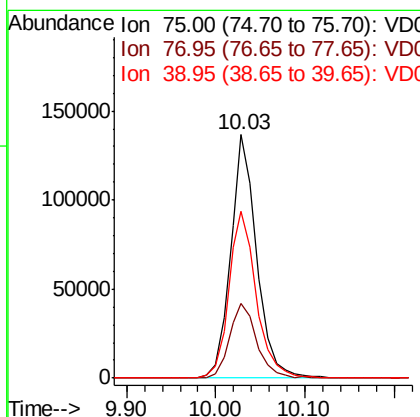
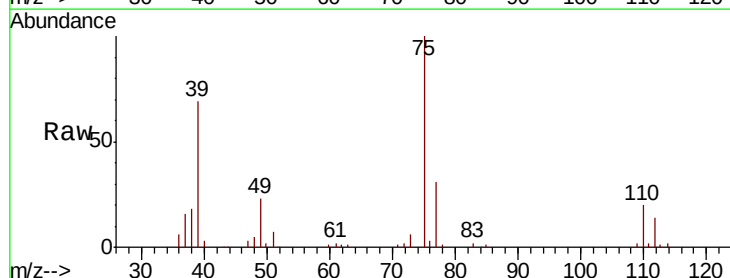
Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

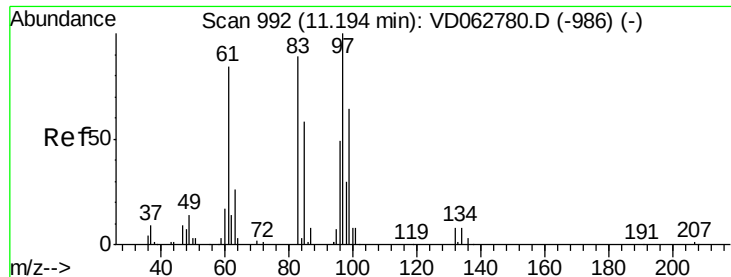
Tot Ion: 75 Resp: 258169
Ion Ratio Lower Upper
75 100
77 32.7 23.2 34.8



#54
cis-1,3-Dichloropropene
Concen: 21.771 ug/l
RT: 10.03 min Scan# 874
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 75 Resp: 278124
Ion Ratio Lower Upper
75 100
77 30.6 24.2 36.2
39 68.7 63.5 95.3

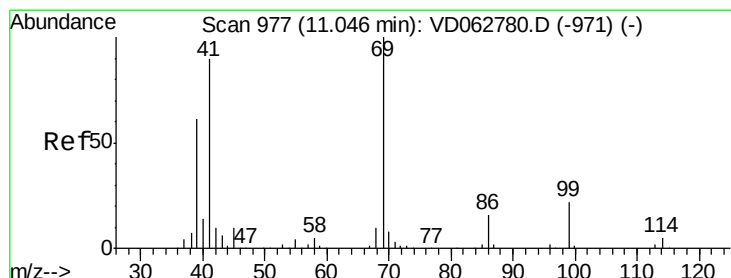
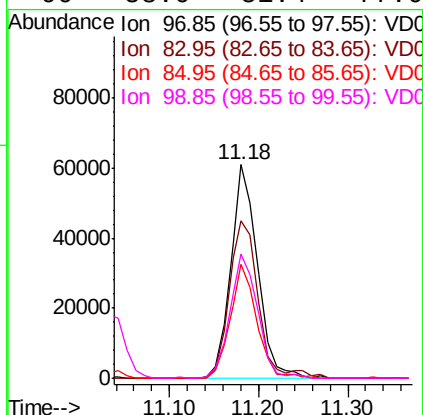
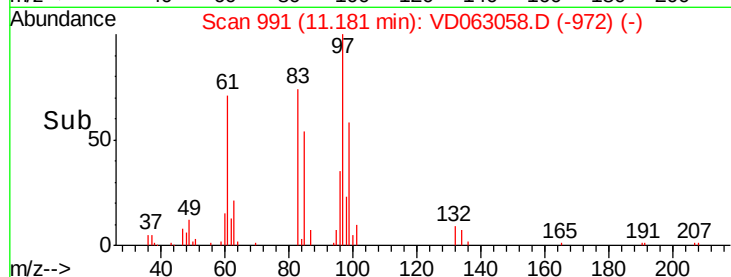
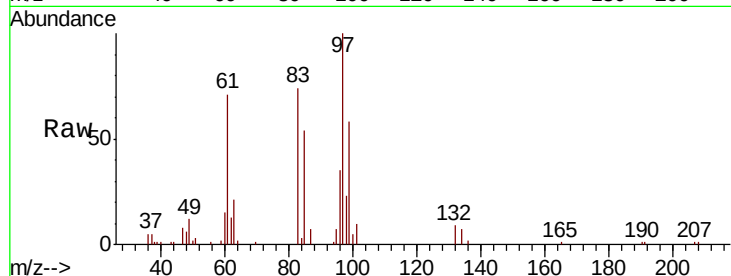




#55
 1,1,2-Trichloroethane
 Concen: 21.471 ug/l
 RT: 11.18 min Scan# 991
 Delta R.T. -0.01 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

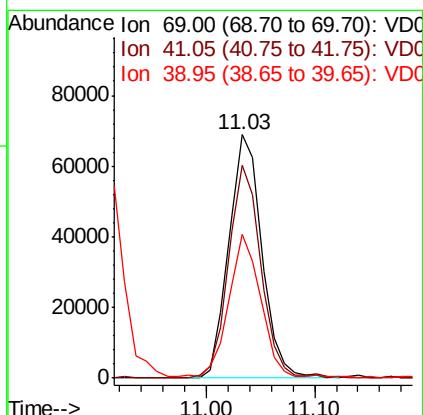
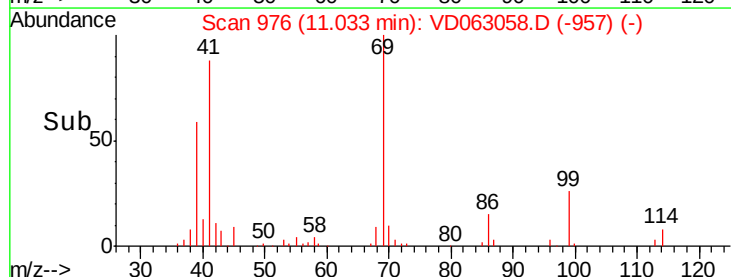
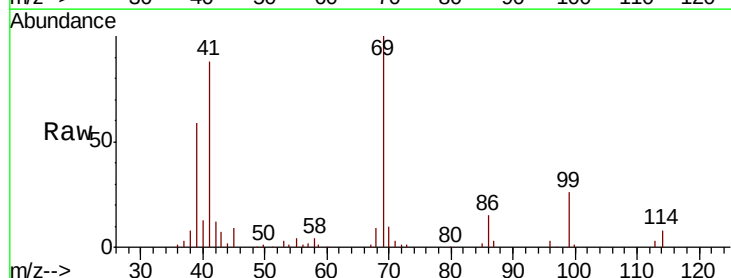
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0710SBS01

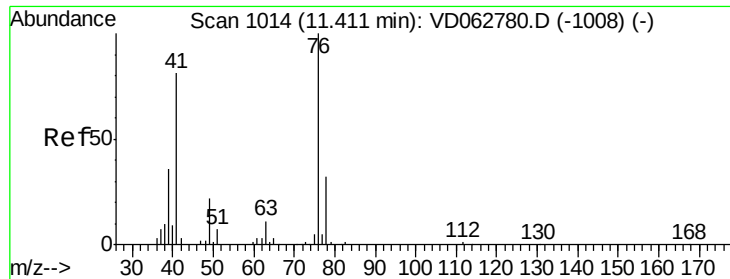
Tot Ion:	97	Resp:	128355
Ion	Ratio	Lower	Upper
97	100		
83	73.8	71.0	106.4
85	53.6	46.6	69.8
99	58.0	51.4	77.0



#56
 Ethyl methacrylate
 Concen: 23.003 ug/l
 RT: 11.03 min Scan# 976
 Delta R.T. -0.01 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

Tgt Ion:	69	Resp:	146964
Ion	Ratio	Lower	Upper
69	100		
41	87.7	72.0	108.0
39	59.2	49.5	74.3





#57

1,3-Dichloropropane

Concen: 21.456 ug/l

RT: 11.40 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

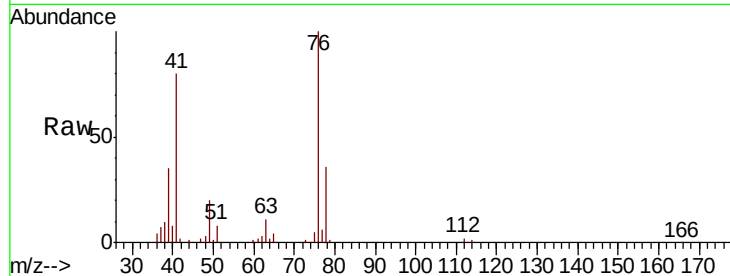
VD0710SBS01

Tot Ion: 76 Resp: 196400

Ion Ratio Lower Upper

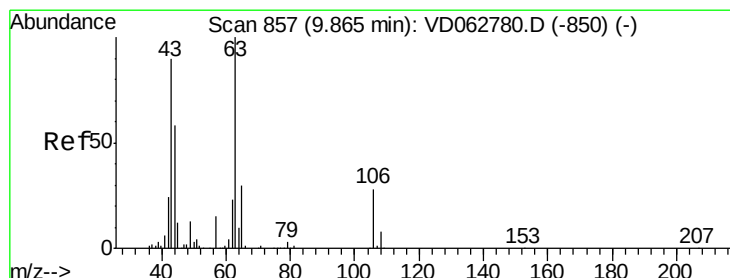
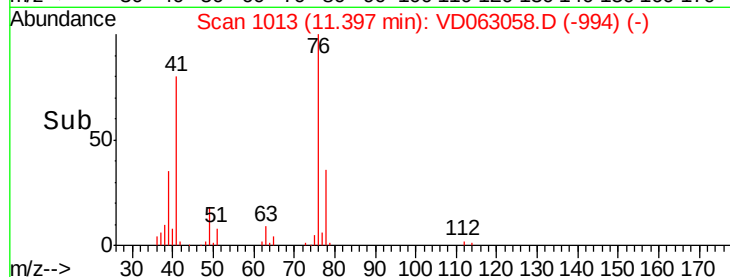
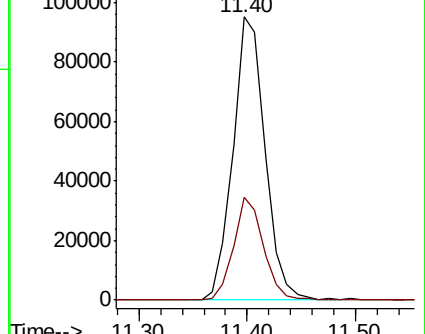
76 100

78 36.5 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: 121.756 ug/l

RT: 9.85 min Scan# 856

Delta R.T. -0.01 min

Lab File: VD063058.D

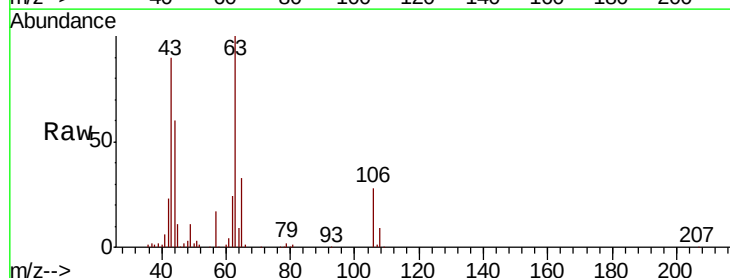
Acq: 10 Jul 2019 15:22

Tgt Ion: 63 Resp: 399349

Ion Ratio Lower Upper

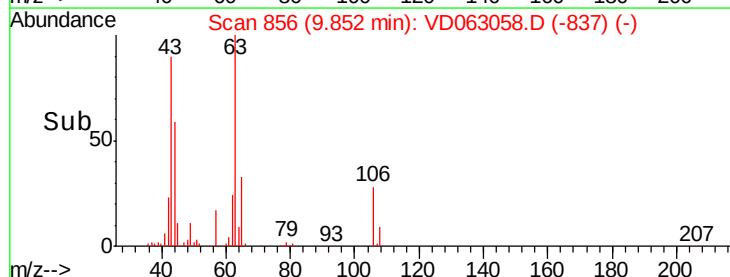
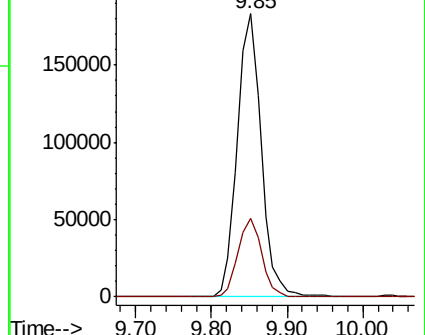
63 100

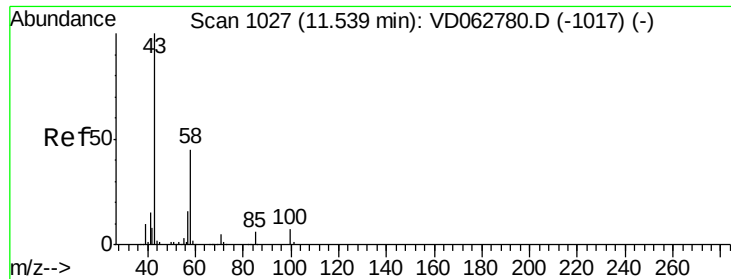
106 27.9 22.1 33.1



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

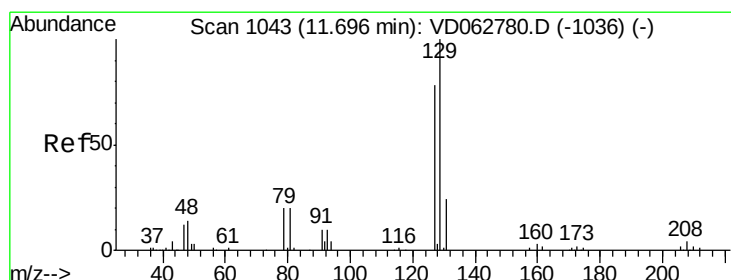
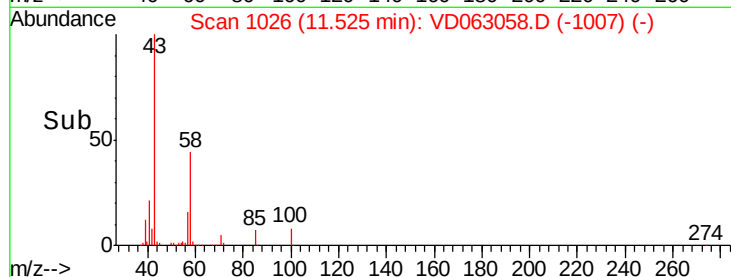
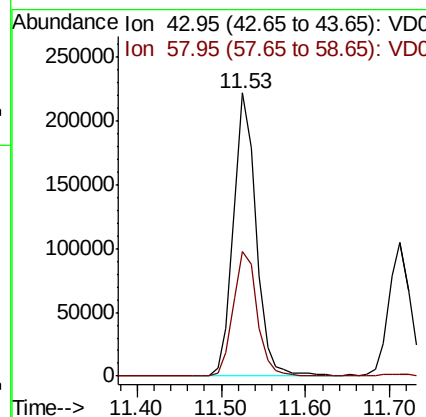
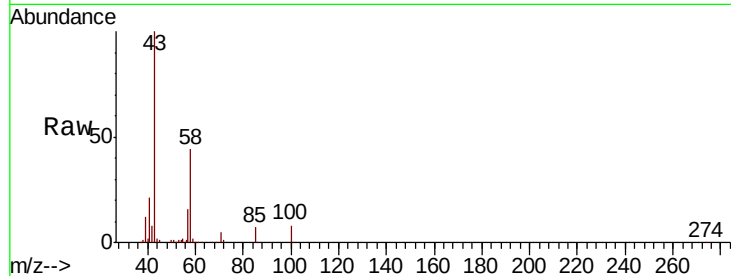




#59
2-Hexanone
Concen: 122.123 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

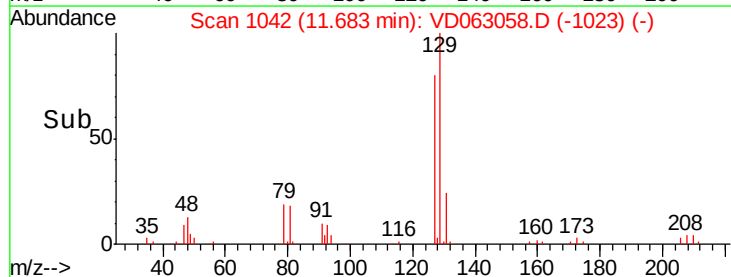
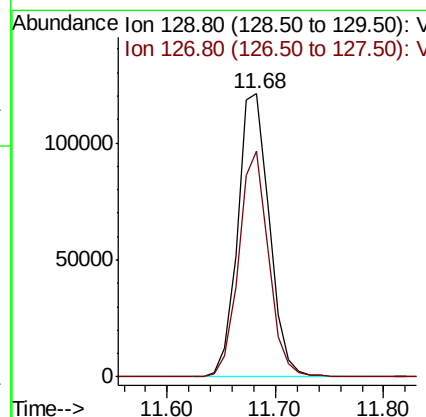
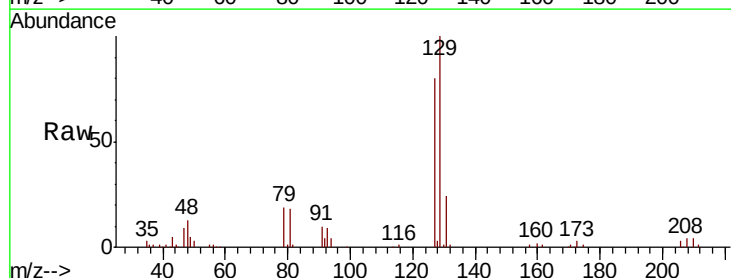
Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

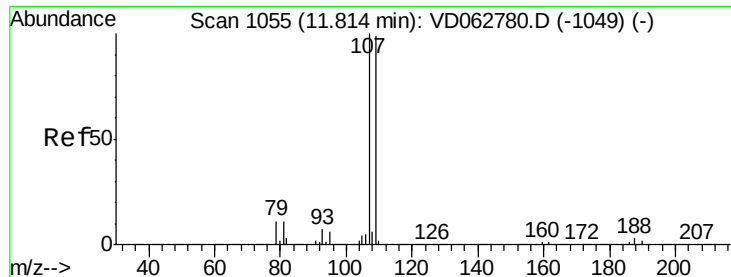
Tot Ion: 43 Resp: 416903
Ion Ratio Lower Upper
43 100
58 44.2 22.4 67.2



#60
Dibromochloromethane
Concen: 22.084 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 129 Resp: 245911
Ion Ratio Lower Upper
129 100
127 79.9 38.9 116.6

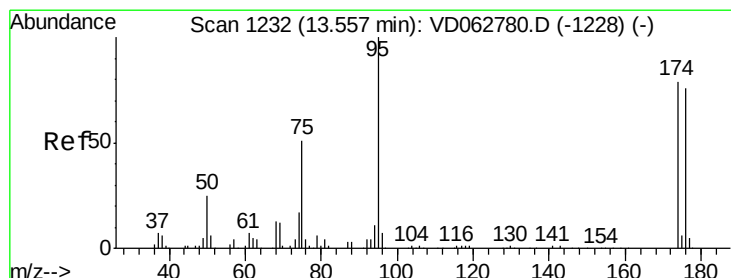
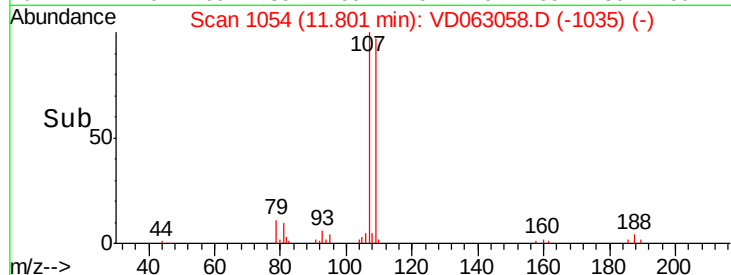
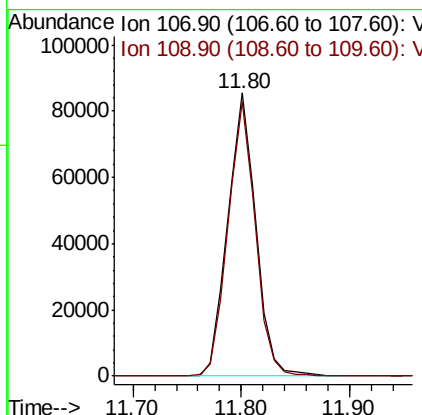
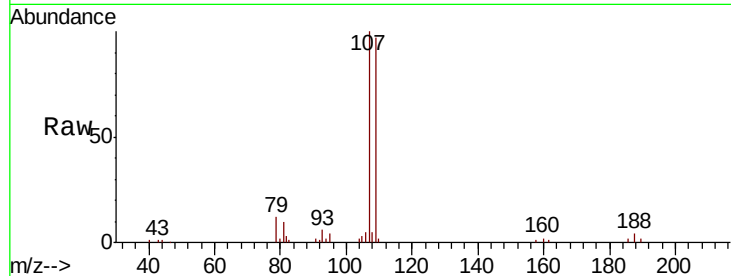




#61
 1,2-Dibromoethane
 Concen: 21.839 ug/l
 RT: 11.80 min Scan# 1054
 Delta R.T. -0.01 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

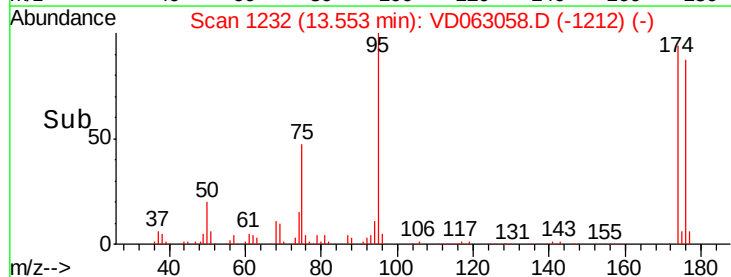
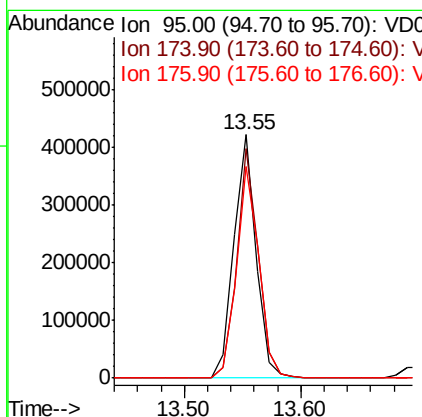
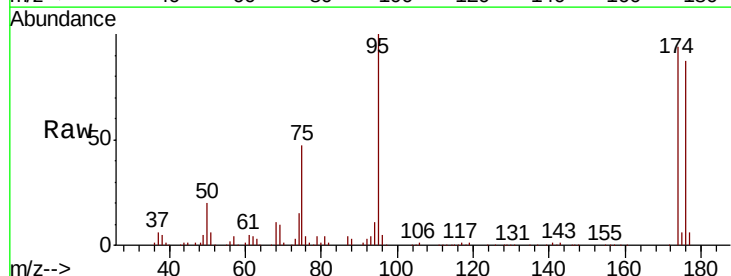
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0710SBS01

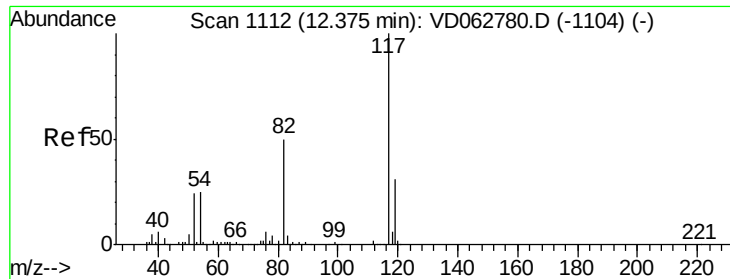
Tot Ion:107 Resp: 154191
 Ion Ratio Lower Upper
 107 100
 109 97.1 79.3 118.9



#62
 4-Bromofluorobenzene
 Concen: 48.792 ug/l
 RT: 13.55 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

Tgt Ion: 95 Resp: 554653
 Ion Ratio Lower Upper
 95 100
 174 94.2 0.0 158.0
 176 87.0 0.0 151.6

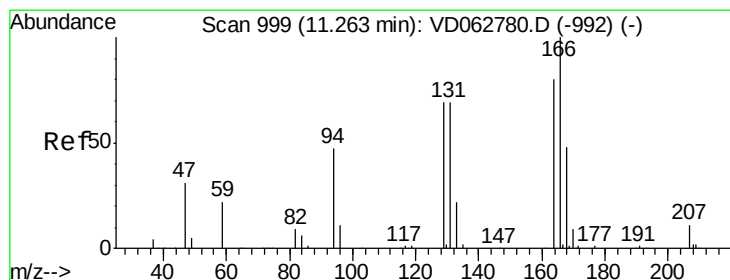
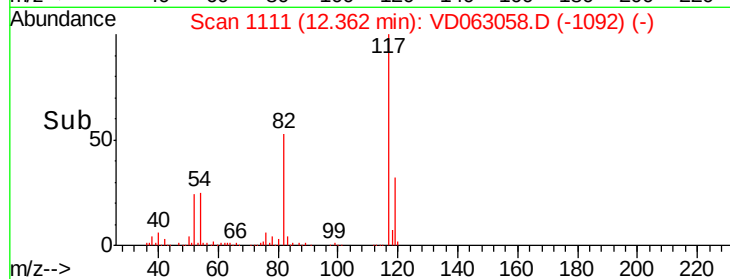
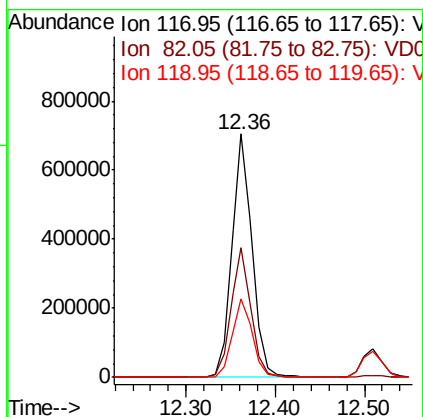
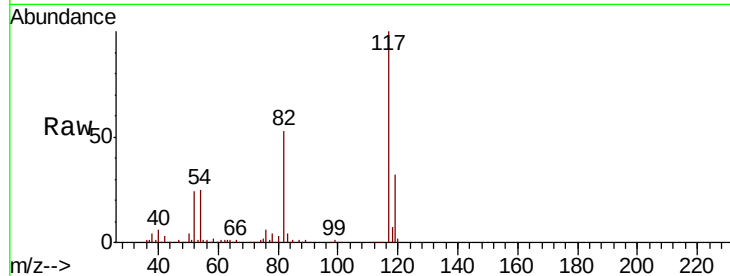




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

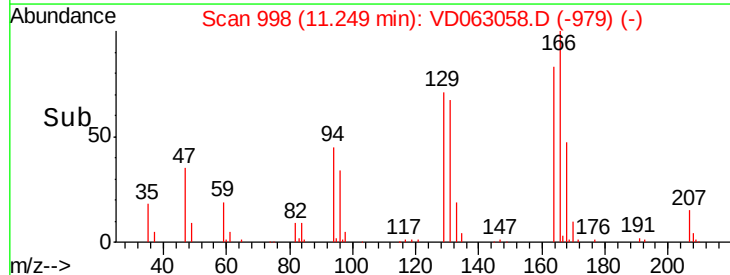
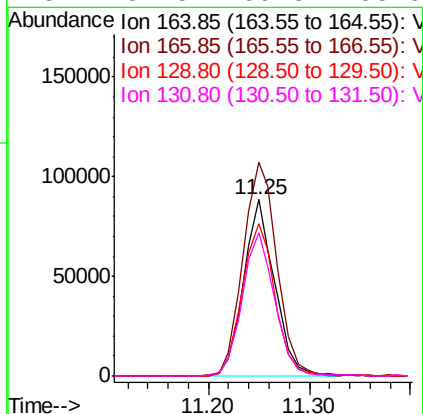
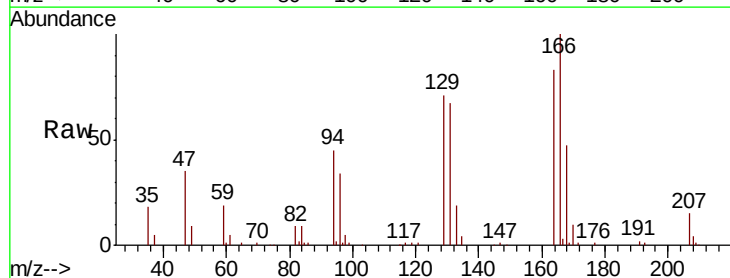
Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

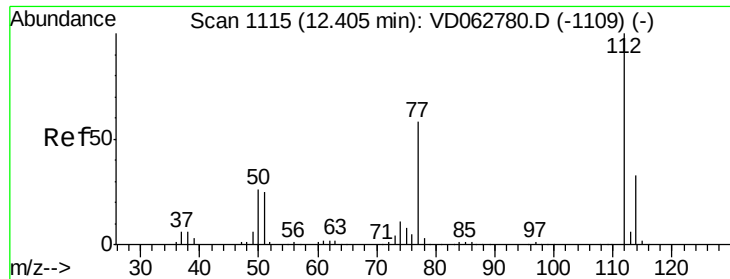
Tot Ion:117 Resp: 1122739
Ion Ratio Lower Upper
117 100
82 53.2 40.4 60.6
119 32.0 25.2 37.8



#64
Tetrachloroethene
Concen: 20.348 ug/l
RT: 11.25 min Scan# 998
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion:164 Resp: 188025
Ion Ratio Lower Upper
164 100
166 121.0 100.6 150.8
129 86.1 69.4 104.0
131 81.5 69.3 103.9

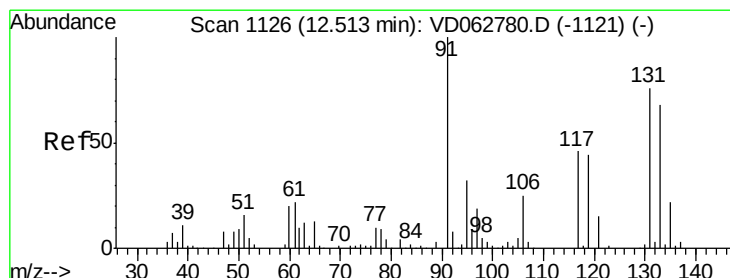
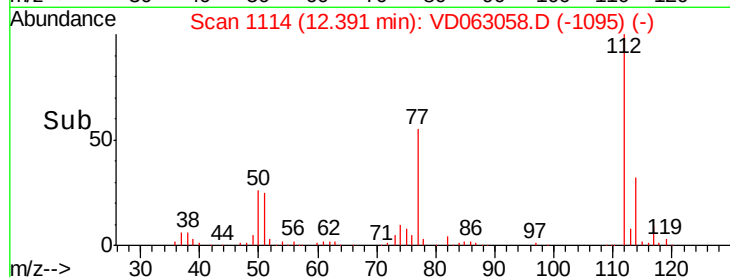
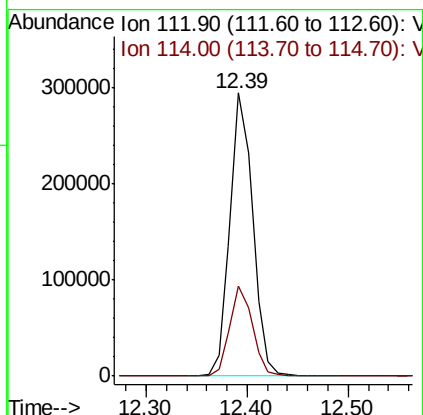
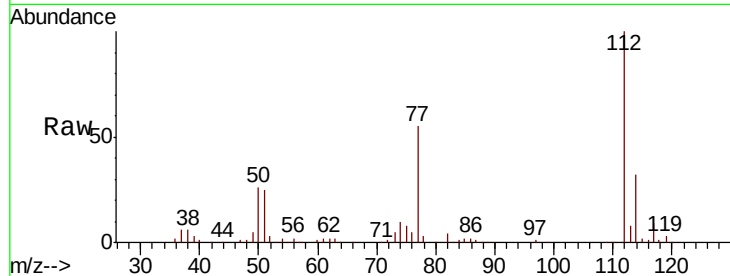




#65
Chlorobenzene
Concen: 22.296 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

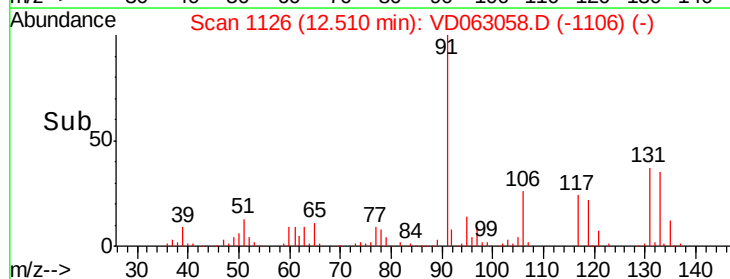
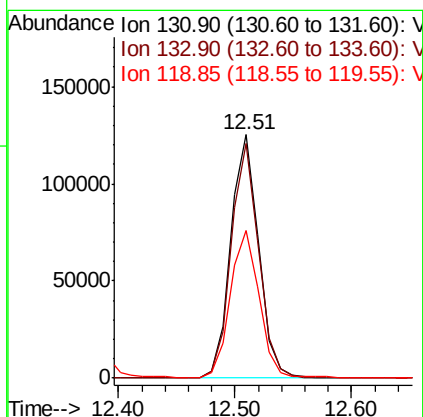
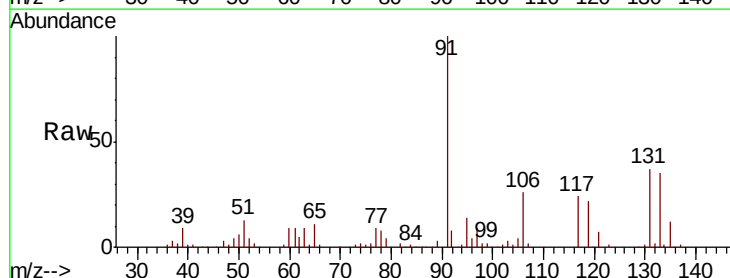
Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

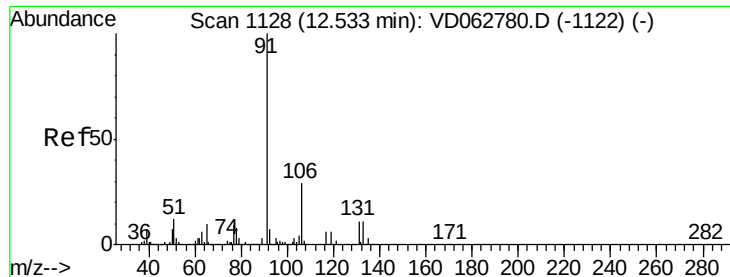
Tot Ion:112 Resp: 464584
Ion Ratio Lower Upper
112 100
114 31.7 26.3 39.5



#66
1,1,1,2-Tetrachloroethane
Concen: 21.285 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. -0.00 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion:131 Resp: 207408
Ion Ratio Lower Upper
131 100
133 96.5 44.5 133.3
119 60.8 28.6 85.9

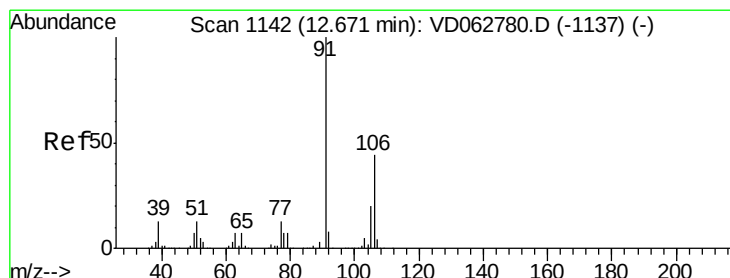
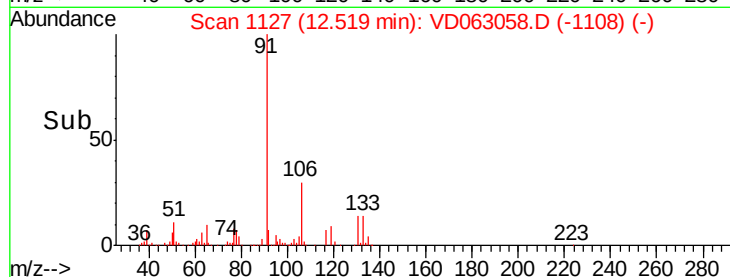
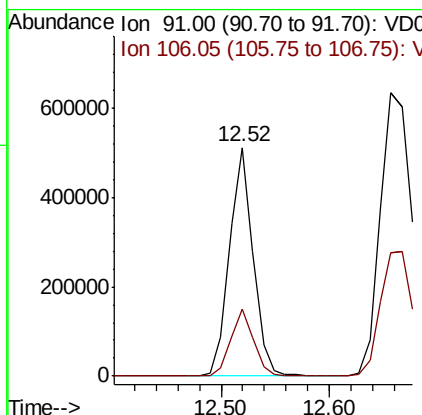
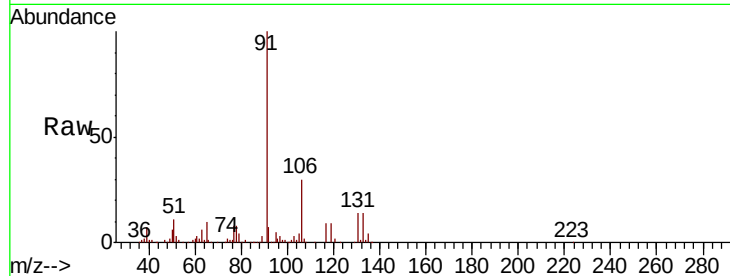




#67
Ethyl Benzene
Concen: 20.858 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

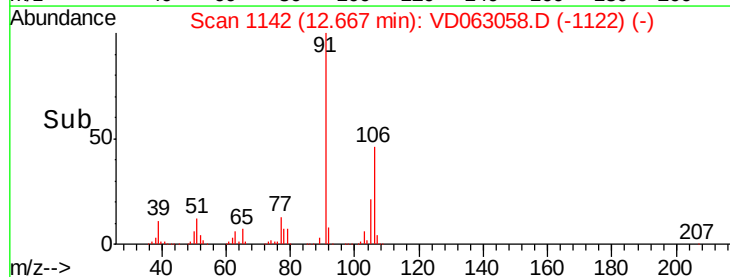
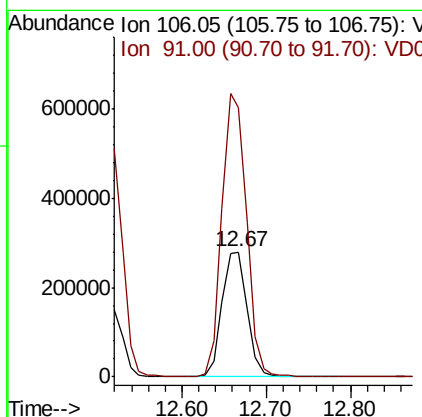
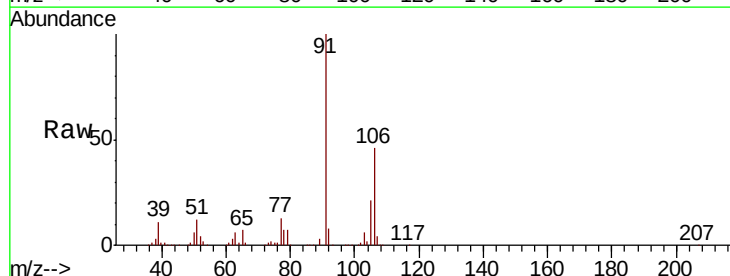
Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

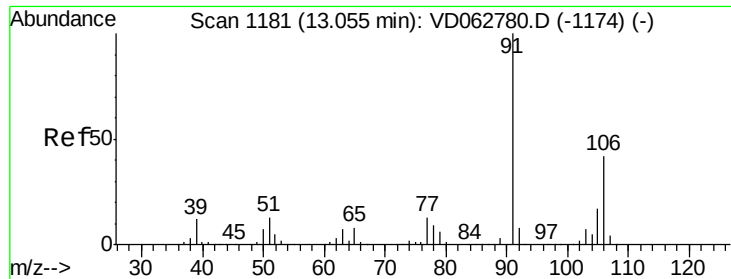
Tot Ion: 91 Resp: 780291
Ion Ratio Lower Upper
91 100
106 29.5 23.1 34.7



#68
m/p-Xylenes
Concen: 44.177 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. -0.00 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 106 Resp: 575616
Ion Ratio Lower Upper
106 100
91 215.5 183.0 274.6

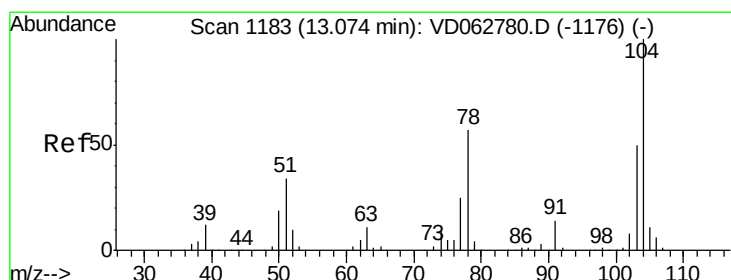
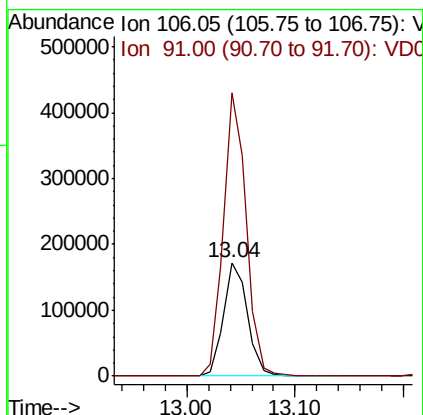
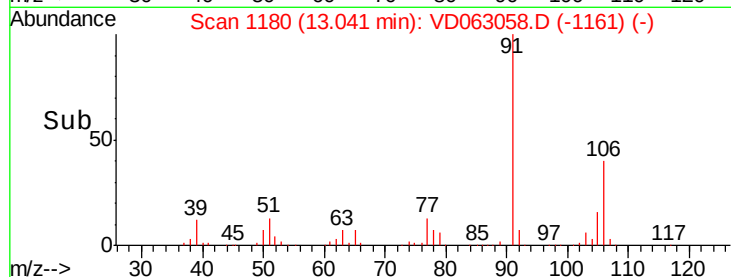
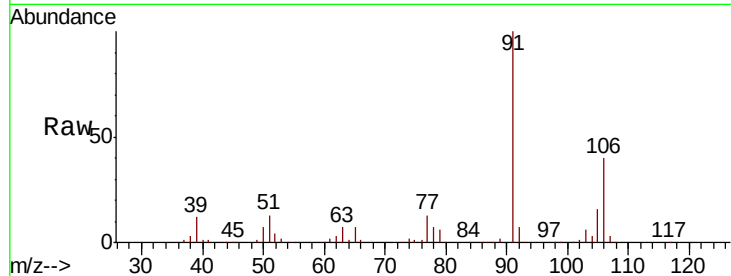




#69
o-Xylene
Concen: 22.326 ug/l
RT: 13.04 min Scan# 1180
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

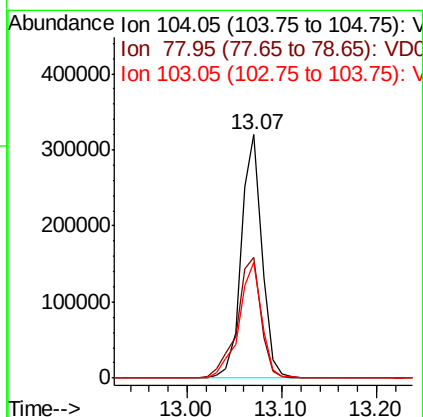
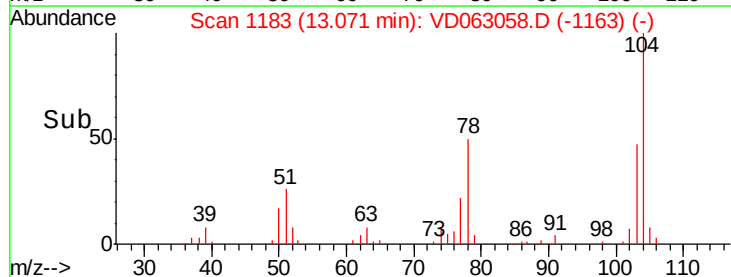
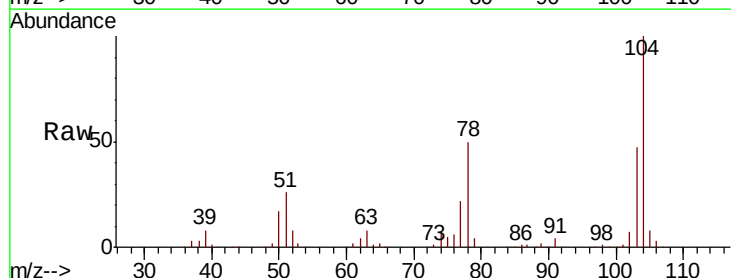
Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

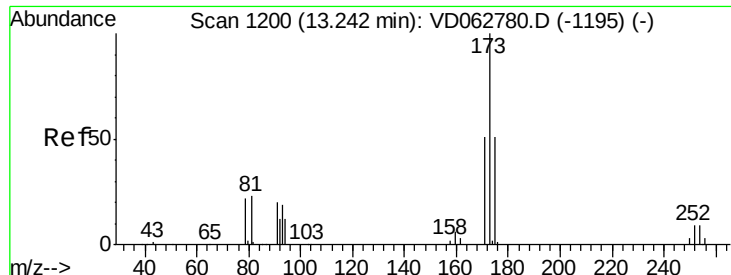
Tot Ion:106 Resp: 265921
Ion Ratio Lower Upper
106 100
91 249.6 117.9 353.6



#70
Styrene
Concen: 23.009 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. -0.00 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion:104 Resp: 481374
Ion Ratio Lower Upper
104 100
78 49.6 45.4 68.2
103 47.5 39.7 59.5





#71

Bromoform

Concen: 22.053 ug/l

RT: 13.23 min Scan# 1199

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

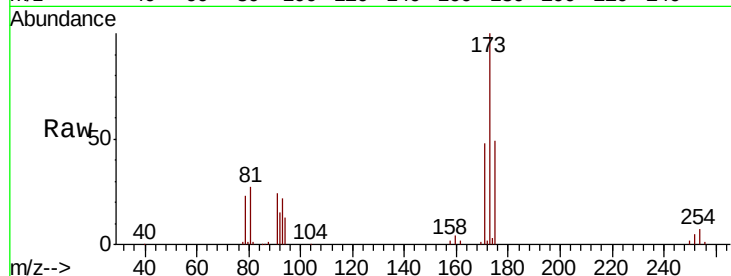
Tot Ion:173 Resp: 147232

Ion Ratio Lower Upper

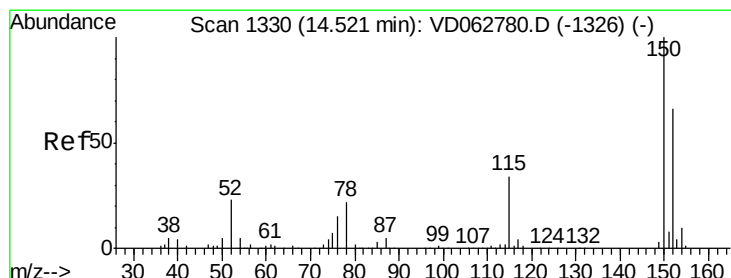
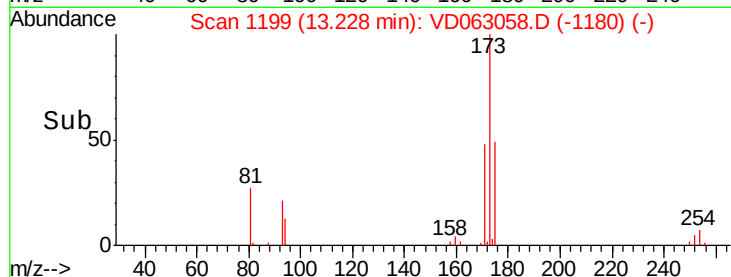
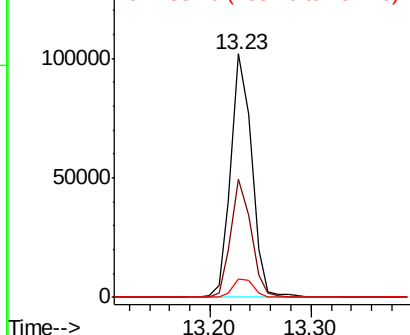
173 100

175 48.6 25.3 75.9

254 7.4 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: VD063058.D

Acq: 10 Jul 2019 15:22

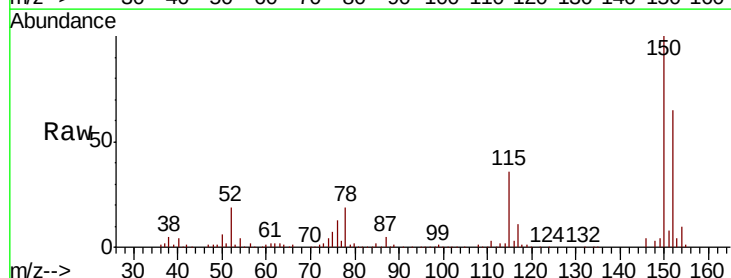
Tgt Ion:152 Resp: 625889

Ion Ratio Lower Upper

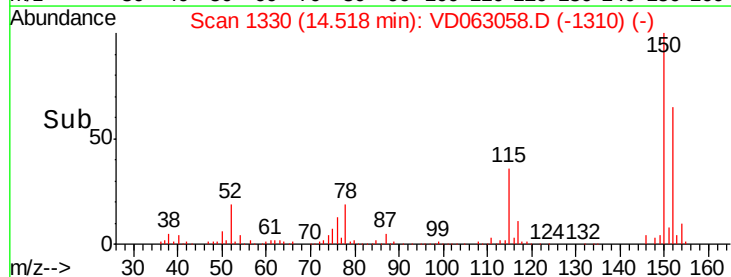
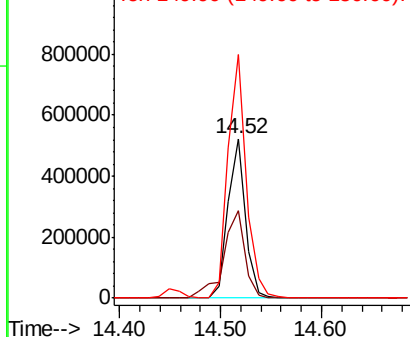
152 100

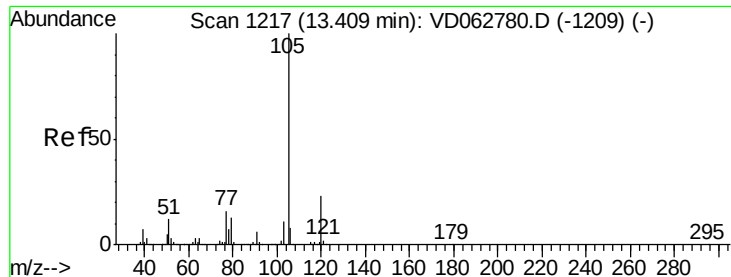
115 55.2 29.2 87.6

150 152.7 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: 20.095 ug/l

RT: 13.40 min Scan# 1216

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

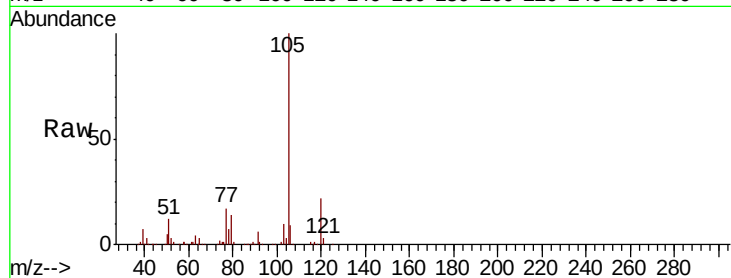
VD0710SBS01

Tot Ion:105 Resp: 806422

Ion Ratio Lower Upper

105 100

120 21.9 11.6 34.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

13.40

600000

500000

400000

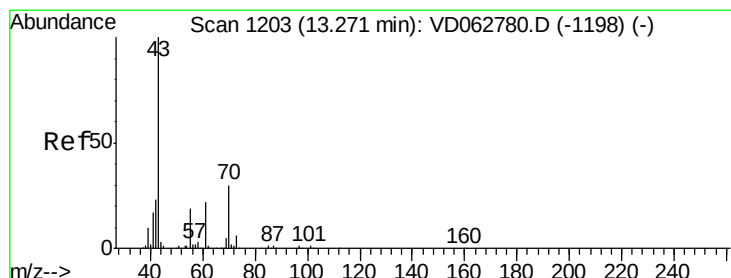
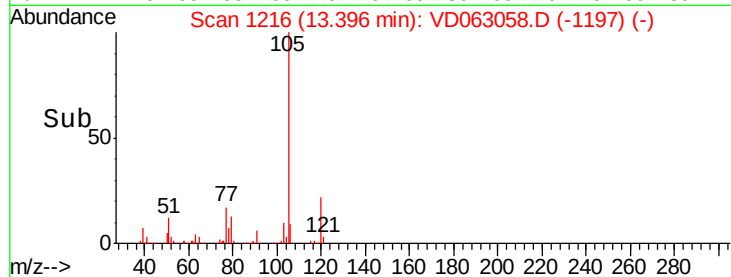
300000

200000

100000

0

Time--> 13.30 13.40 13.50



#74

N-ethyl acetate

Concen: 22.064 ug/l

RT: 13.26 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Tgt Ion: 43 Resp: 215027

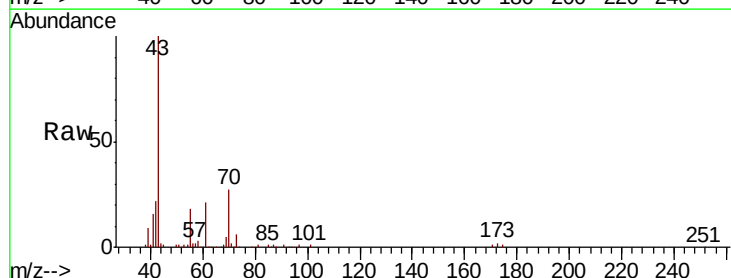
Ion Ratio Lower Upper

43 100

70 27.1 24.4 36.6

55 17.7 15.2 22.8

61 20.6 17.4 26.2



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC

200000

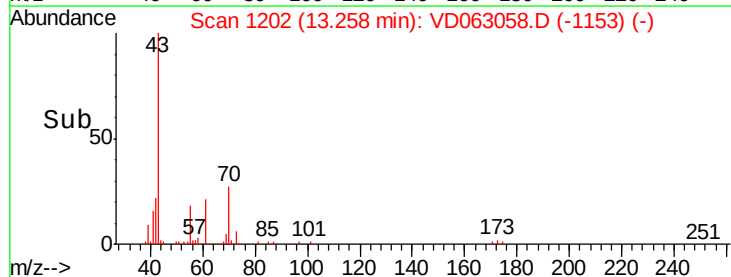
150000

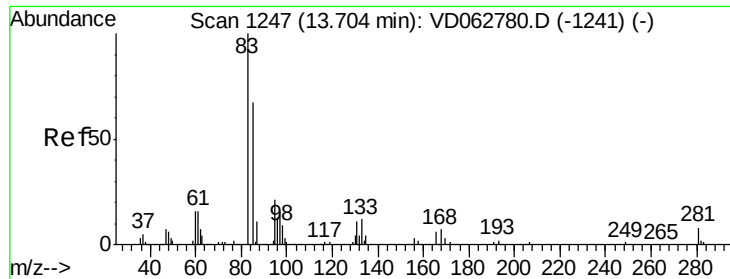
100000

50000

0

Time--> 13.20 13.30 13.40





#75

1,1,2,2-Tetrachloroethane

Concen: 23.452 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. -0.00 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

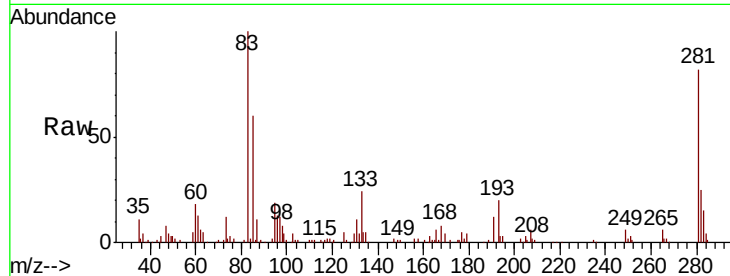
Tot Ion: 83 Resp: 153342

Ion Ratio Lower Upper

83 100

131 10.7 5.3 16.1

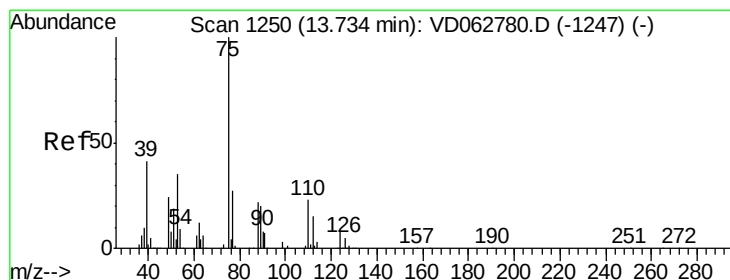
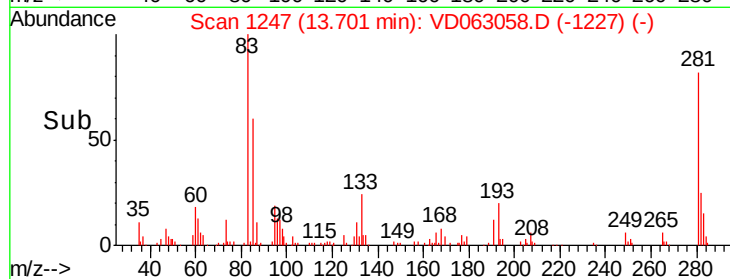
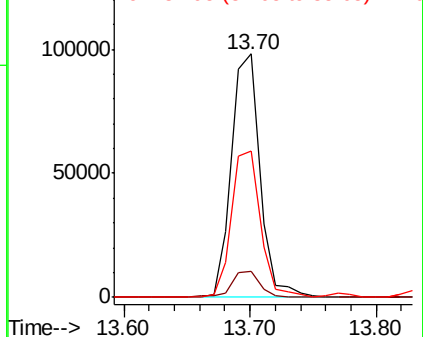
85 60.1 33.7 101.1



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: 22.391 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. -0.00 min

Lab File: VD063058.D

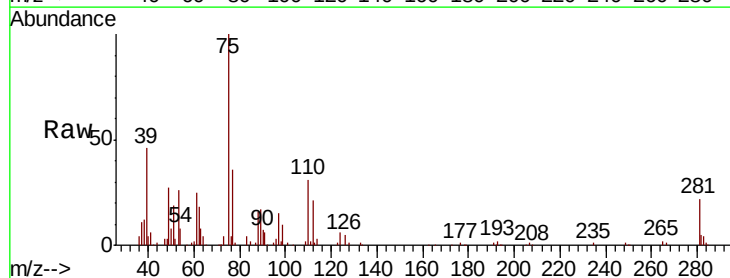
Acq: 10 Jul 2019 15:22

Tgt Ion: 75 Resp: 161784

Ion Ratio Lower Upper

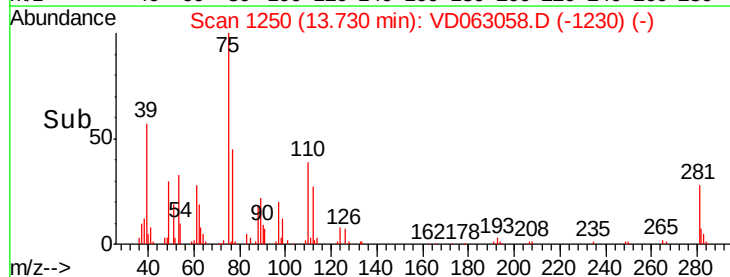
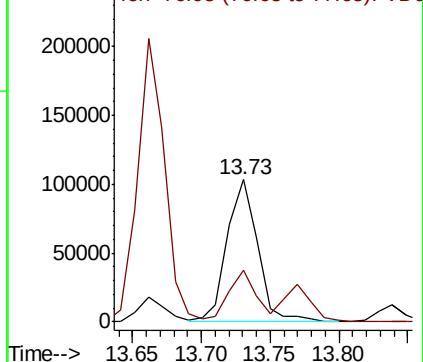
75 100

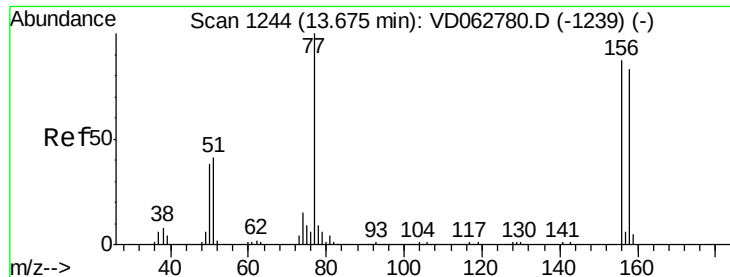
77 36.1 15.0 45.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC





#77

Bromobenzene

Concen: 21.076 ug/l

RT: 13.67 min Scan# 1244

Delta R.T. -0.00 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

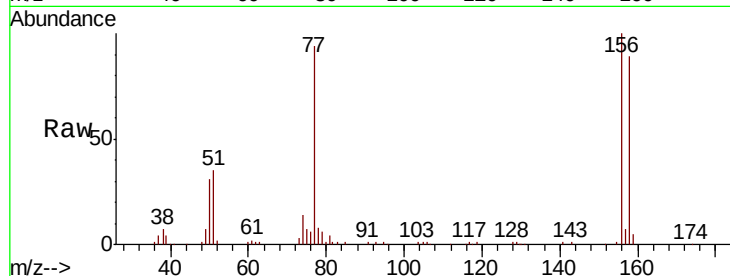
Tot Ion:156 Resp: 227493

Ion Ratio Lower Upper

156 100

77 93.5 57.7 173.1

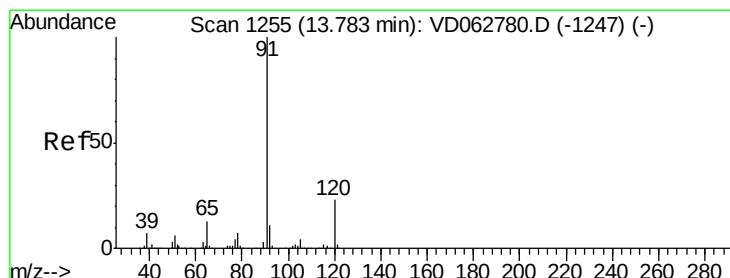
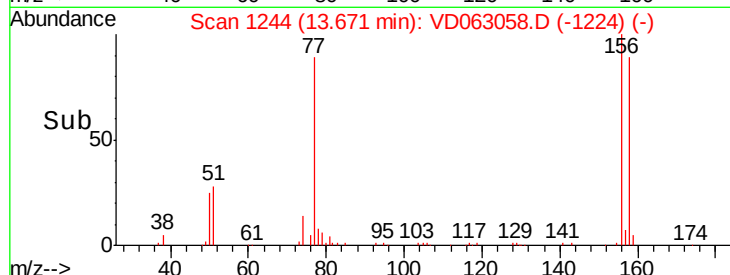
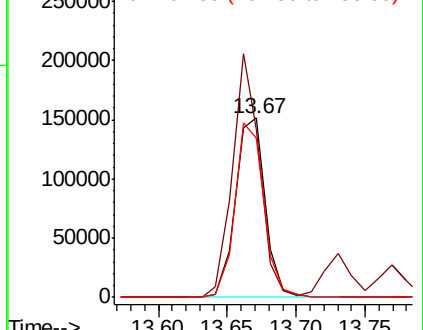
158 89.0 47.7 143.1



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: 19.854 ug/l

RT: 13.77 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VD063058.D

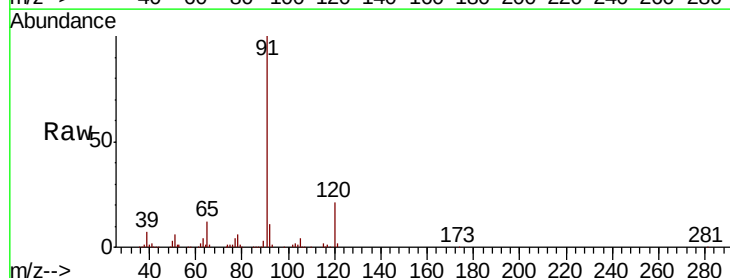
Acq: 10 Jul 2019 15:22

Tgt Ion: 91 Resp: 927343

Ion Ratio Lower Upper

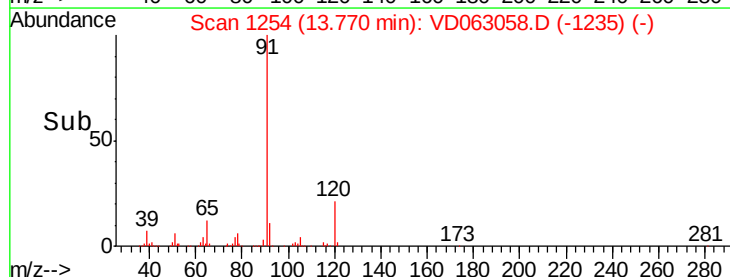
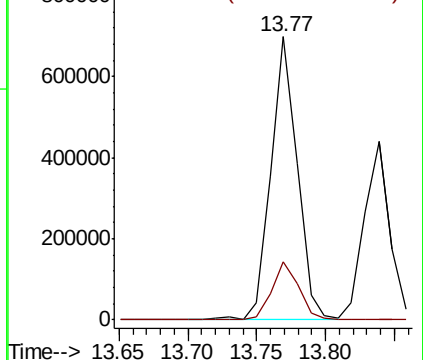
91 100

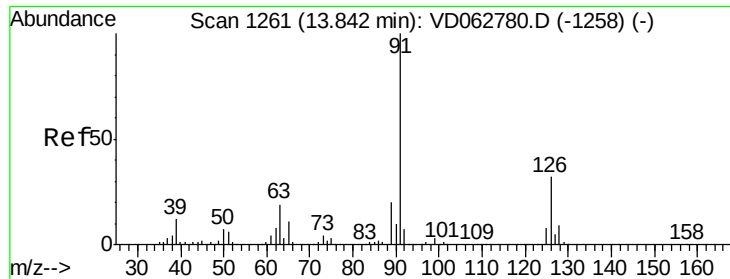
120 20.6 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.05 (119.75 to 120.75): V

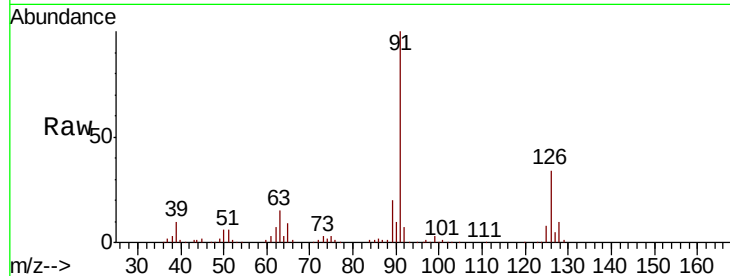




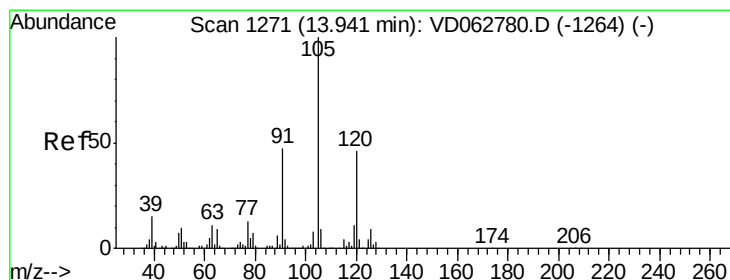
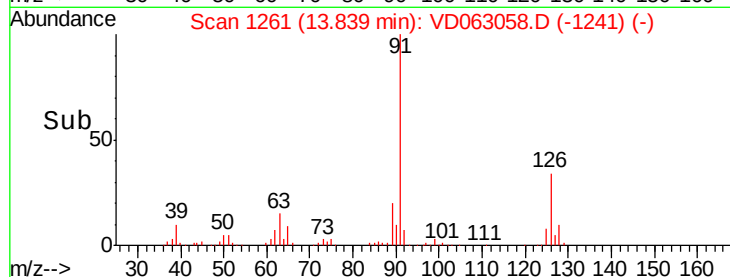
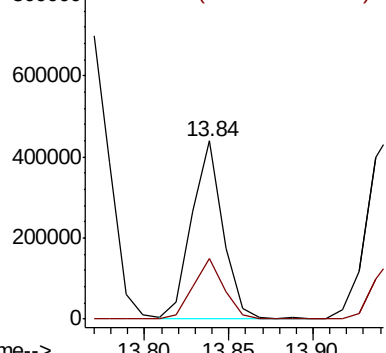
#79
2-Chlorotoluene
Concen: 21.288 ug/l
RT: 13.84 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Instrument :
MSVOA_D
ClientSampleId :
VD0710SBS01

Tot Ion: 91 Resp: 568236
Ion Ratio Lower Upper
91 100
126 34.2 15.7 47.1

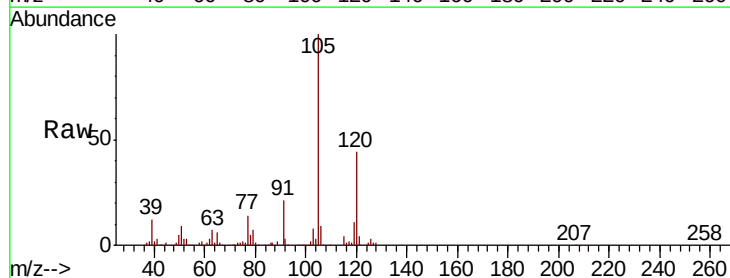


Abundance Ion 91.00 (90.70 to 91.70): V
Ion 125.95 (125.65 to 126.65): V

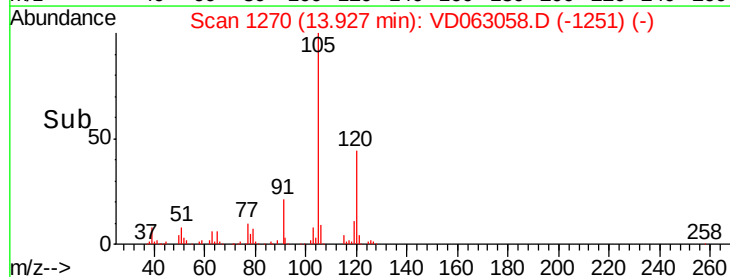
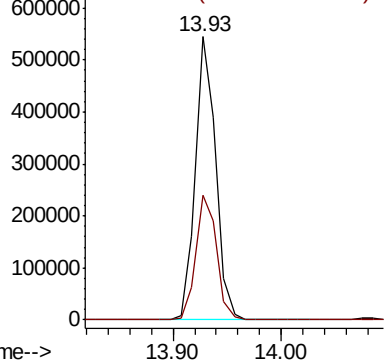


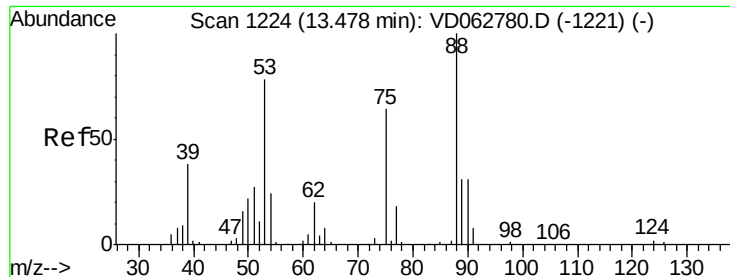
#80
1,3,5-Trimethylbenzene
Concen: 20.993 ug/l
RT: 13.93 min Scan# 1270
Delta R.T. -0.01 min
Lab File: VD063058.D
Acq: 10 Jul 2019 15:22

Tgt Ion: 105 Resp: 707651
Ion Ratio Lower Upper
105 100
120 44.0 23.1 69.2



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





#81

trans-1,4-Dichloro-2-butene

Concen: 21.267 ug/l

RT: 13.46 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

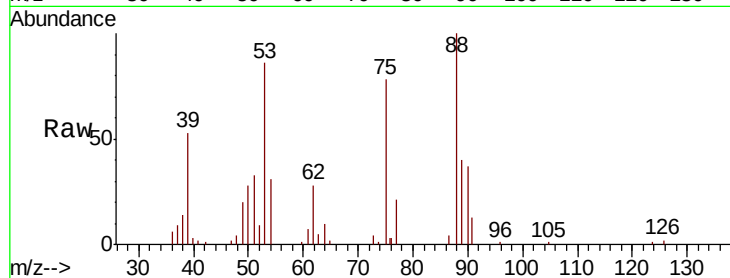
Tot Ion: 75 Resp: 40272

Ion Ratio Lower Upper

75 100

53 111.3 97.8 146.8

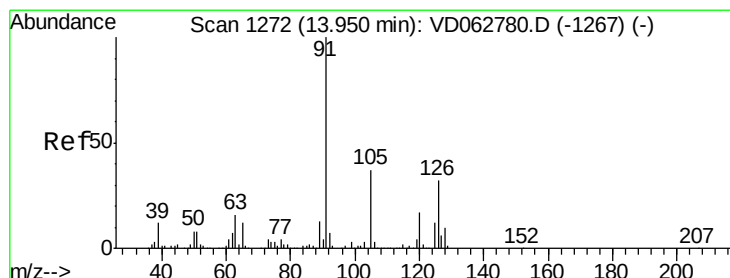
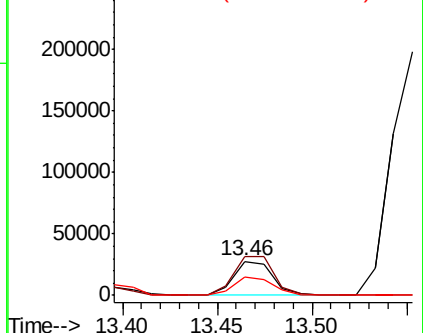
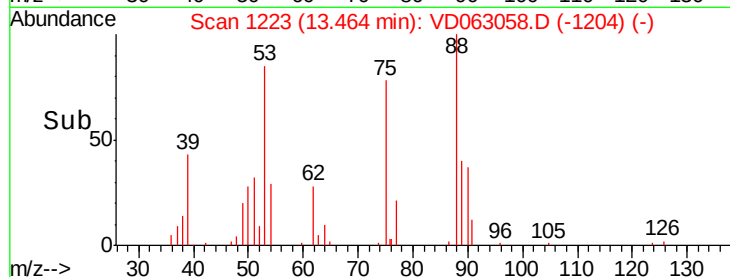
89 51.8 39.4 59.2



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: 21.397 ug/l

RT: 13.95 min Scan# 1272

Delta R.T. -0.00 min

Lab File: VD063058.D

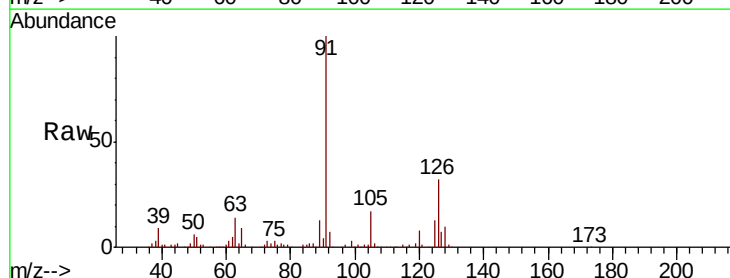
Acq: 10 Jul 2019 15:22

Tgt Ion: 91 Resp: 687629

Ion Ratio Lower Upper

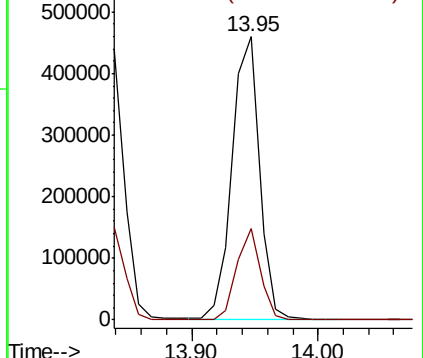
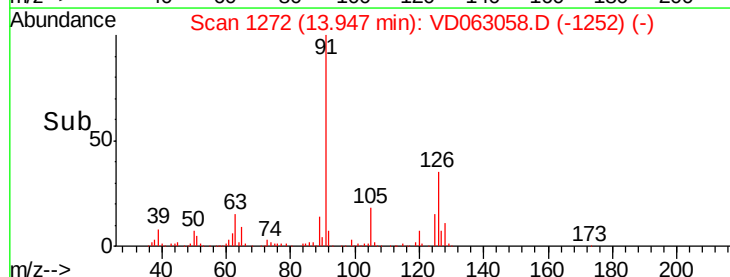
91 100

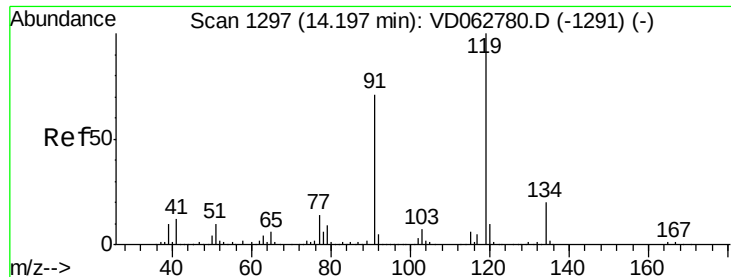
126 32.2 16.0 47.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V





#83

tert-Butylbenzene

Concen: 21.575 ug/l

RT: 14.18 min Scan# 1296

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

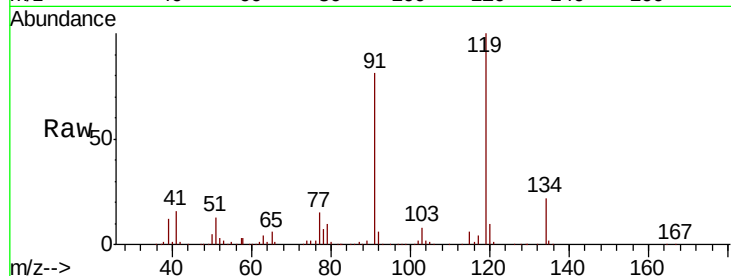
Tot Ion:119 Resp: 810656

Ion Ratio Lower Upper

119 100

91 80.7 35.5 106.5

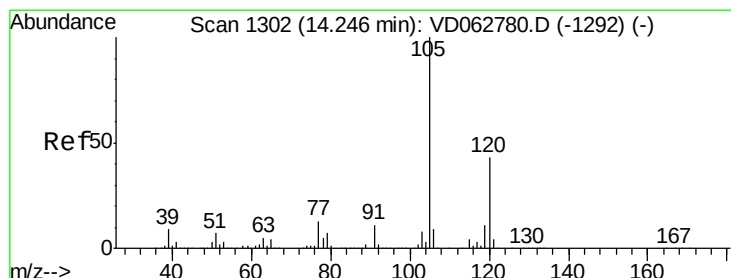
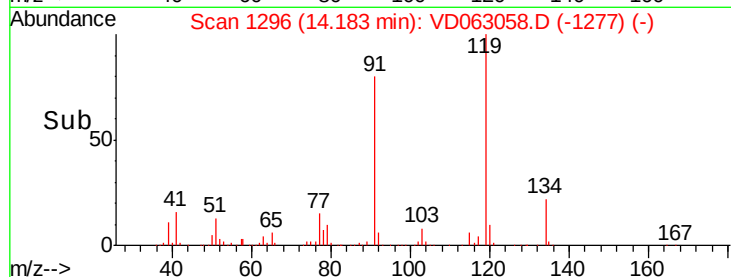
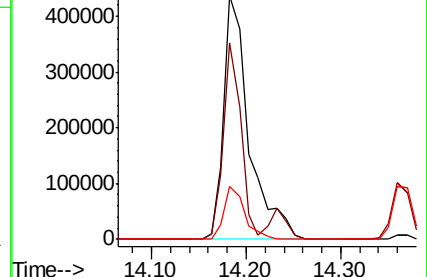
134 21.7 10.2 30.6



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 20.342 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. -0.01 min

Lab File: VD063058.D

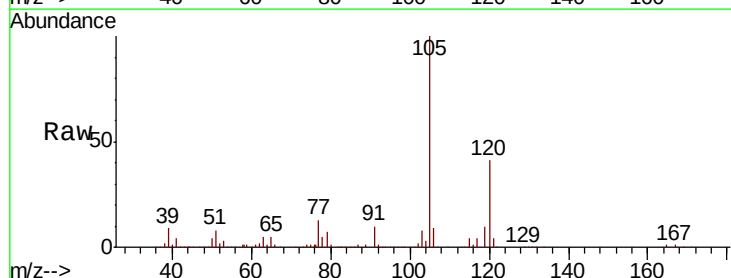
Acq: 10 Jul 2019 15:22

Tgt Ion:105 Resp: 702814

Ion Ratio Lower Upper

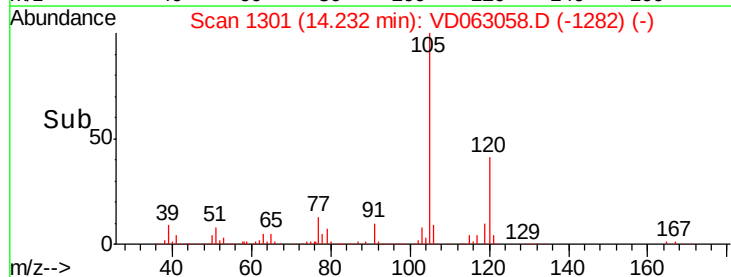
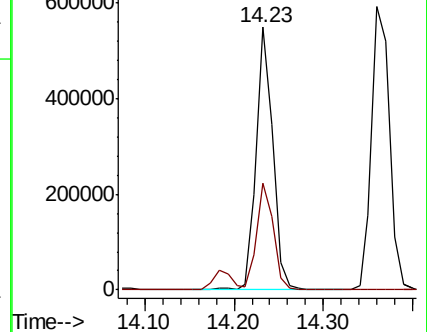
105 100

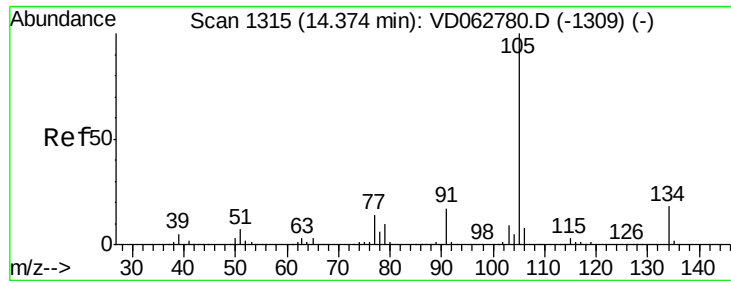
120 40.9 21.3 63.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 20.381 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

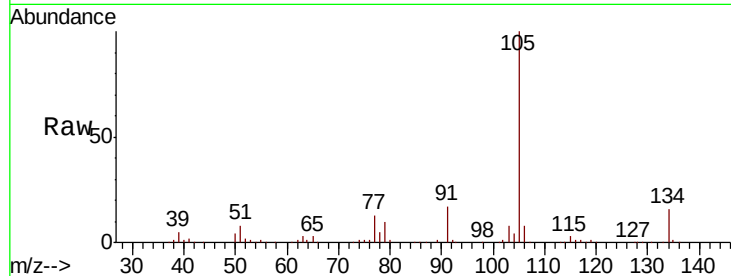
VD0710SBS01

Tot Ion:105 Resp: 832295

Ion Ratio Lower Upper

105 100

134 15.9 9.1 27.3



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V

14.36

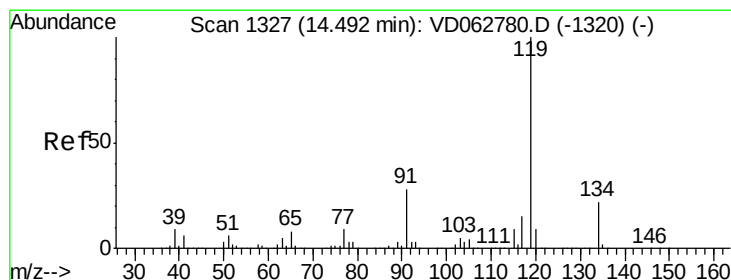
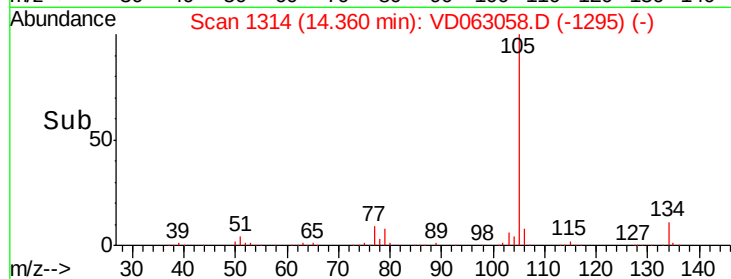
600000

400000

200000

0

Time-->



#86

p-Isopropyltoluene

Concen: 20.369 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. -0.00 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

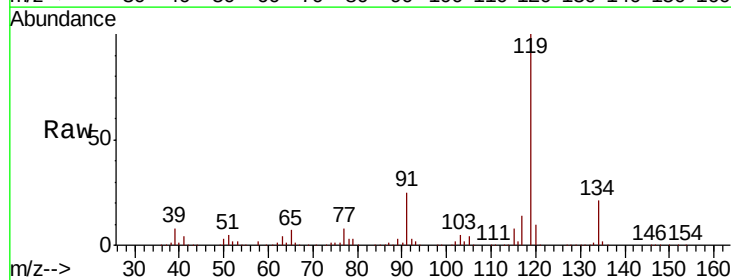
Tgt Ion:119 Resp: 760977

Ion Ratio Lower Upper

119 100

134 21.3 11.1 33.1

91 25.2 14.0 41.9



Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

800000

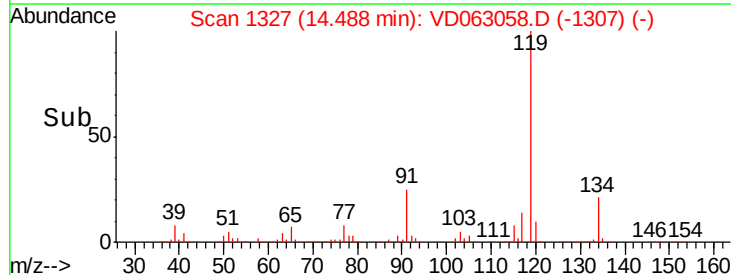
600000

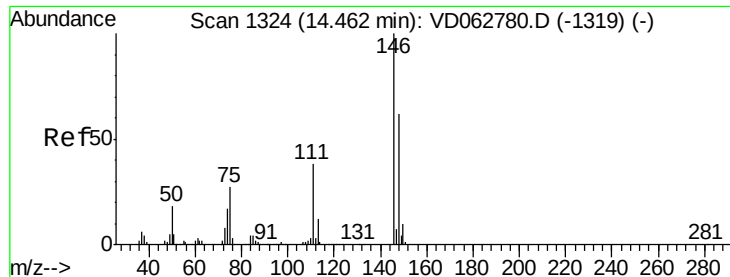
400000

200000

0

Time-->





#87

1,3-Dichlorobenzene

Concen: 19.436 ug/l

RT: 14.45 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

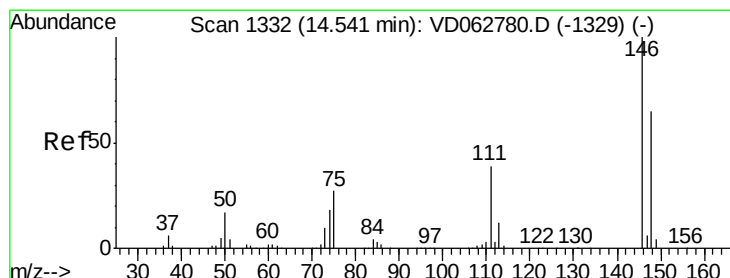
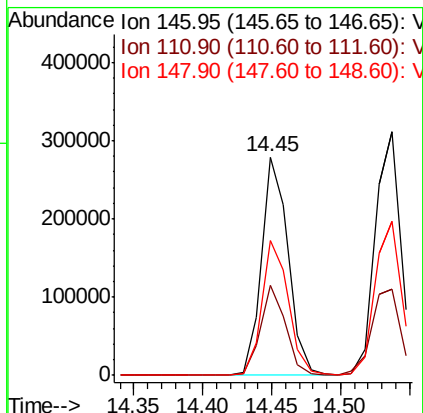
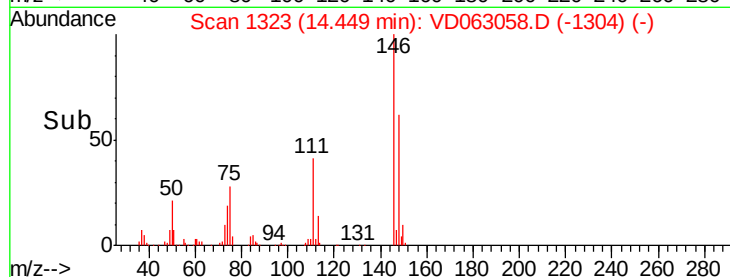
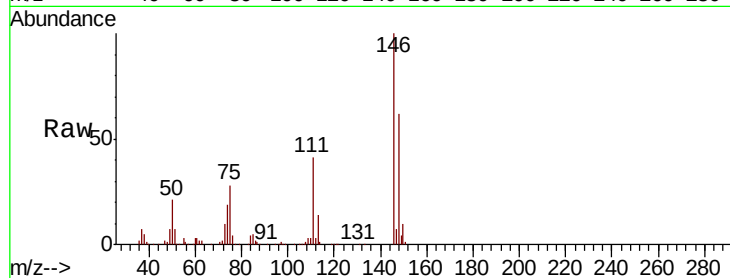
Tot Ion:146 Resp: 376065

Ion Ratio Lower Upper

146 100

111 41.5 19.0 57.0

148 62.1 30.8 92.3



#88

1,4-Dichlorobenzene

Concen: 21.092 ug/l

RT: 14.54 min Scan# 1332

Delta R.T. -0.00 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

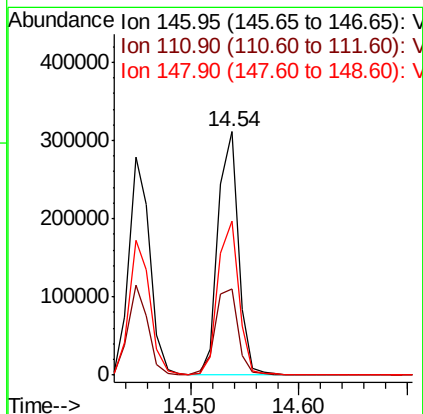
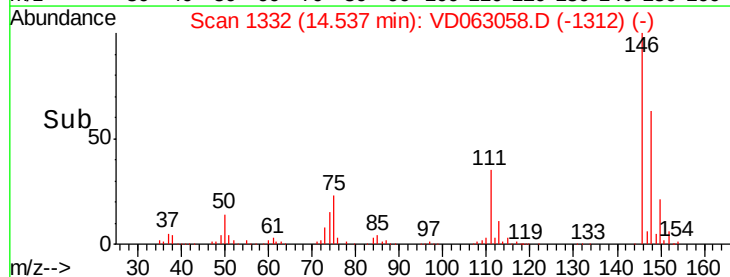
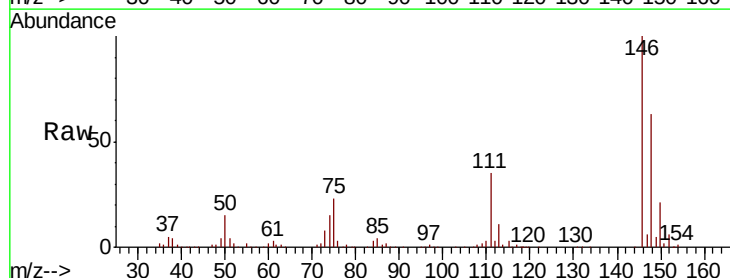
Tgt Ion:146 Resp: 409899

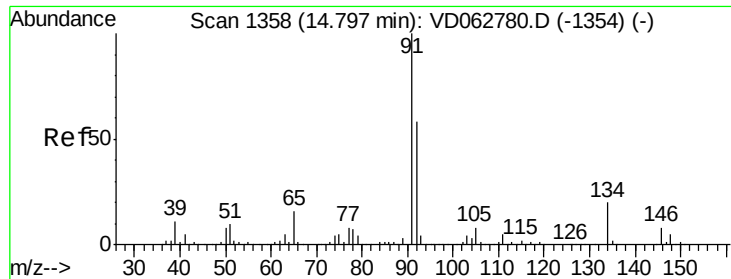
Ion Ratio Lower Upper

146 100

111 35.2 19.7 59.1

148 63.1 32.8 98.3





#89

n-Butylbenzene

Concen: 20.101 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. -0.00 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

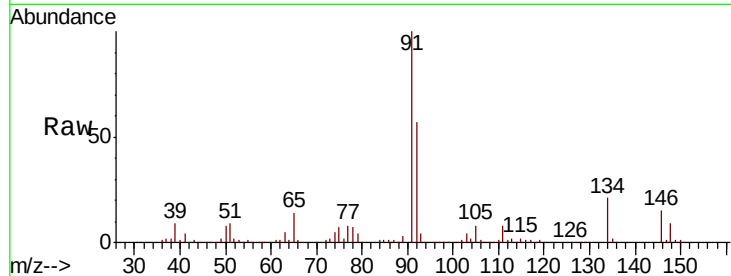
Tot Ion: 91 Resp: 702882

Ion Ratio Lower Upper

91 100

92 57.1 28.9 86.7

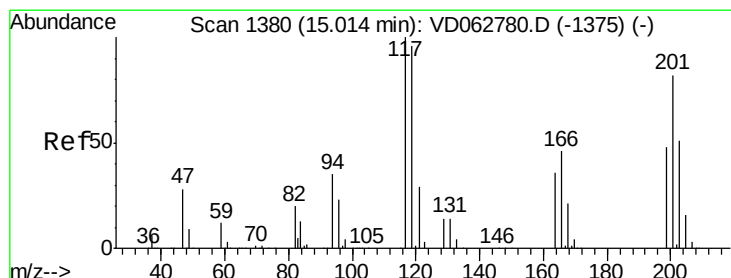
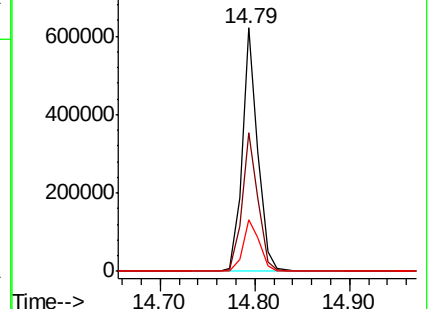
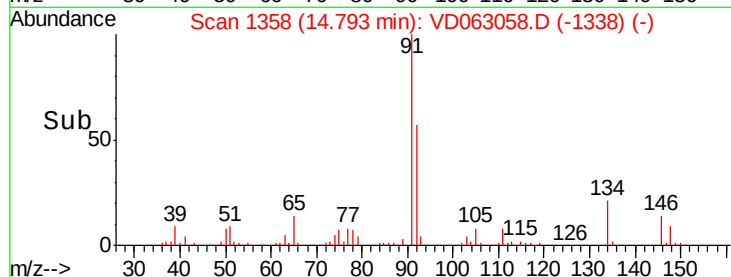
134 21.4 10.1 30.3



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 20.664 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD063058.D

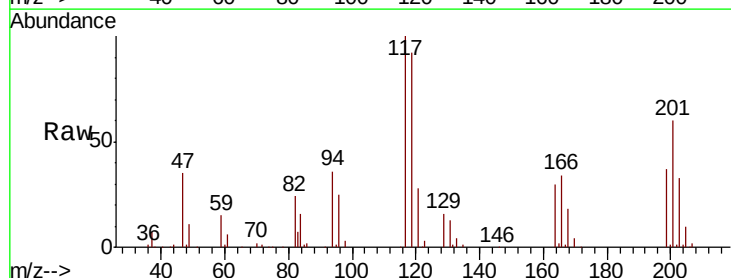
Acq: 10 Jul 2019 15:22

Tgt Ion: 117 Resp: 207569

Ion Ratio Lower Upper

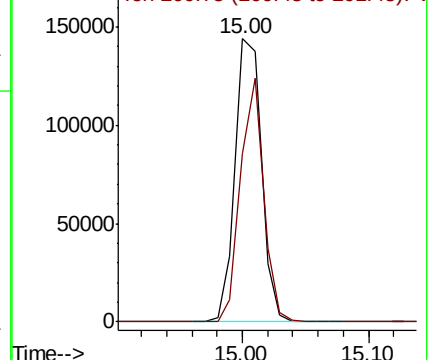
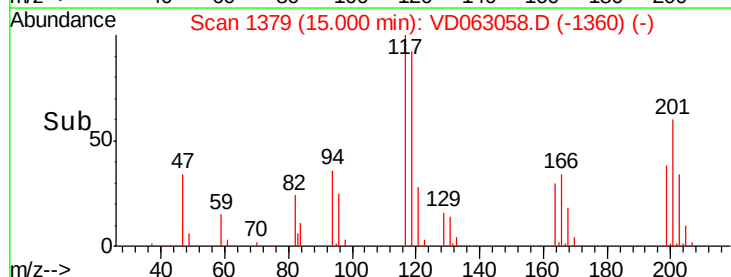
117 100

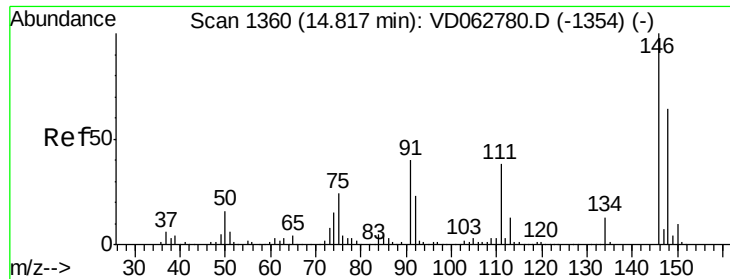
201 59.5 40.8 122.2



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V





#91

1,2-Dichlorobenzene

Concen: 20.940 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. -0.01 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

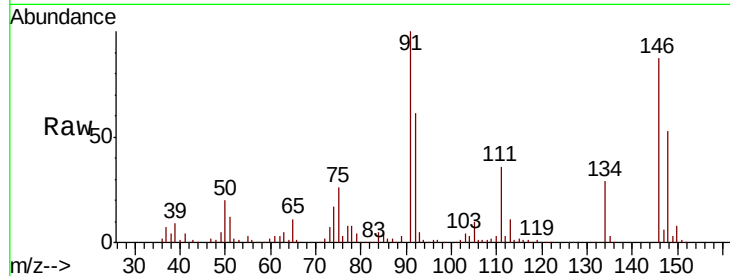
Tot Ion:146 Resp: 346655

Ion Ratio Lower Upper

146 100

111 40.6 19.1 57.1

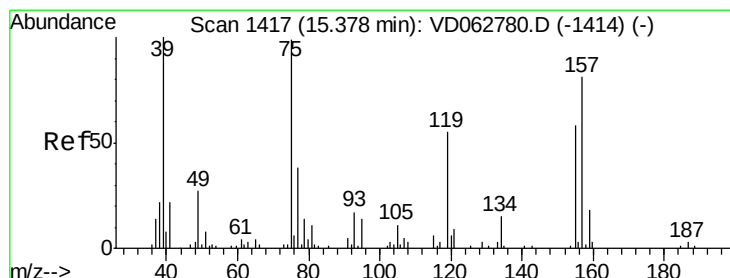
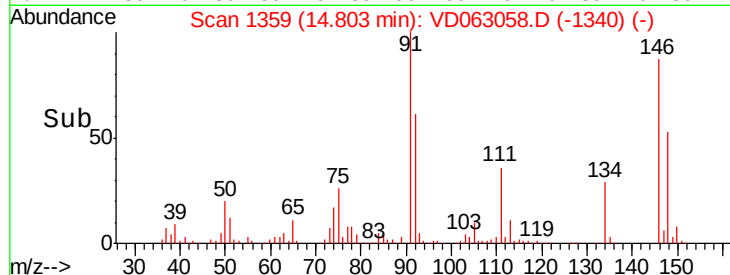
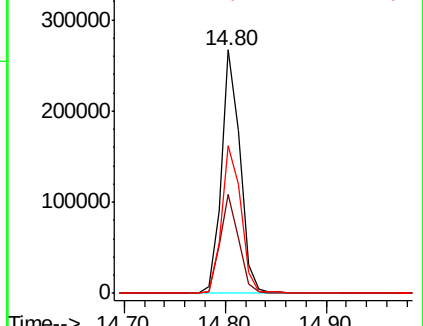
148 60.6 32.3 96.8



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: 23.057 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. -0.00 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

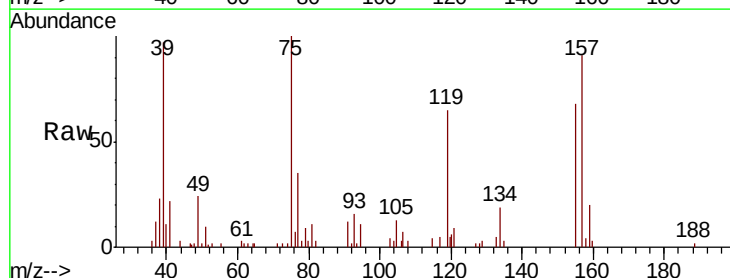
Tgt Ion: 75 Resp: 29426

Ion Ratio Lower Upper

75 100

155 68.2 29.3 87.8

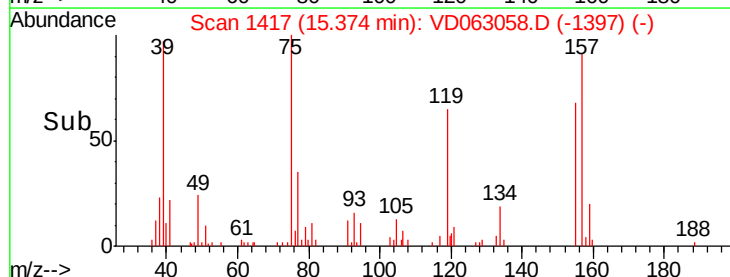
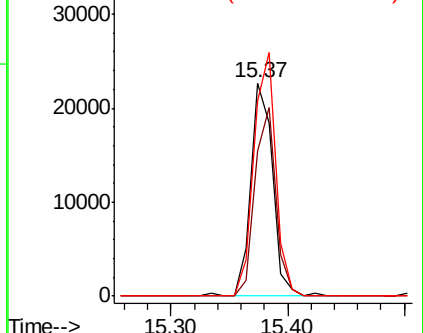
157 91.2 41.3 123.7

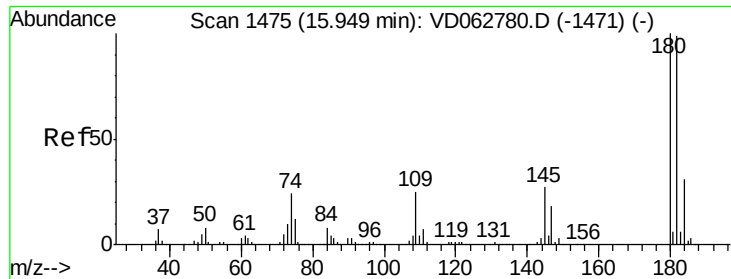


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

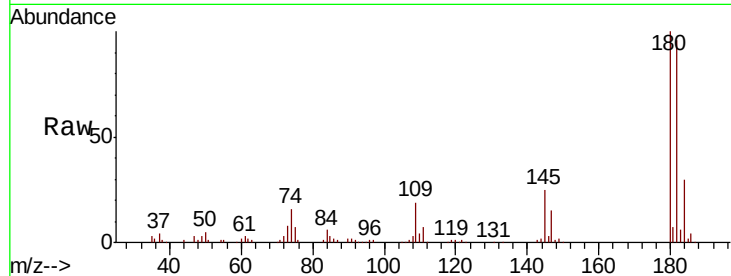




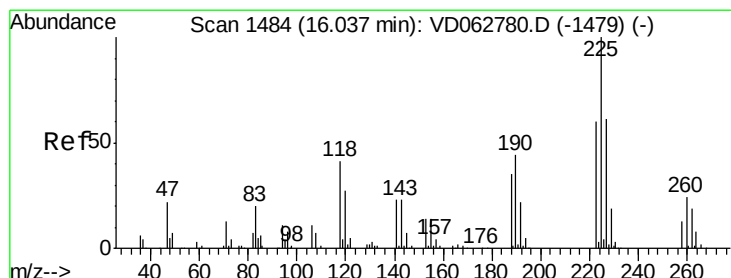
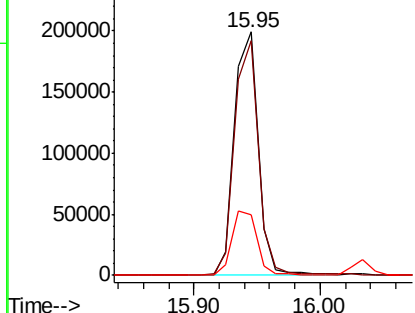
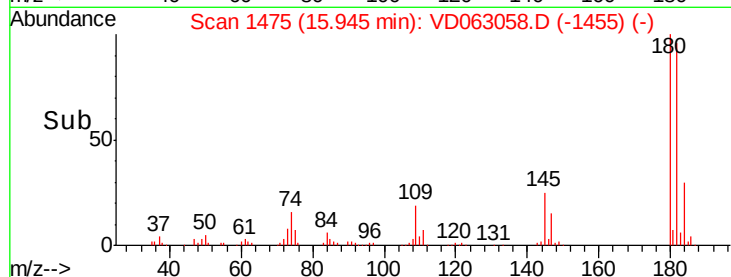
#93
 1,2,4-Trichlorobenzene
 Concen: 20.127 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. -0.00 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0710SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.5	49.5	148.5
145	24.7	13.7	41.0

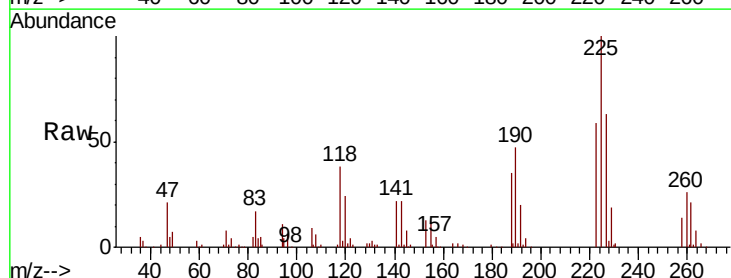


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

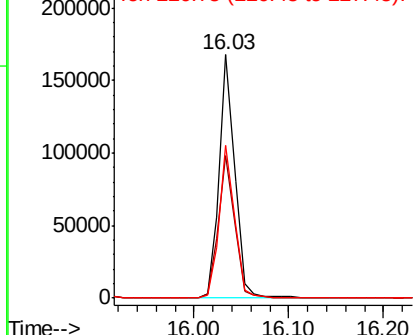
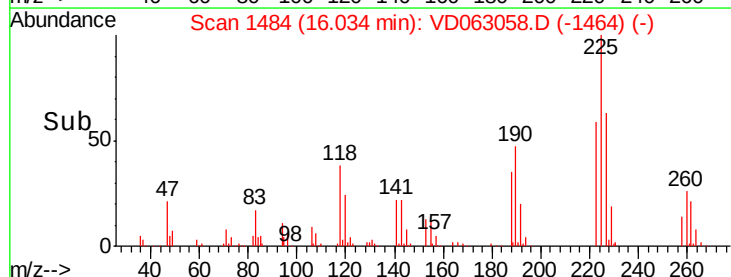


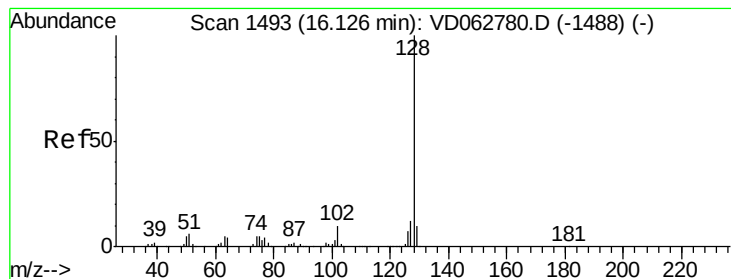
#94
 Hexachlorobutadiene
 Concen: 19.470 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. -0.00 min
 Lab File: VD063058.D
 Acq: 10 Jul 2019 15:22

Tgt Ion	Ratio	Lower	Upper
225	100		
223	58.7	29.8	89.5
227	62.9	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: 22.327 ug/l

RT: 16.12 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

Instrument :

MSVOA_D

ClientSampleId :

VD0710SBS01

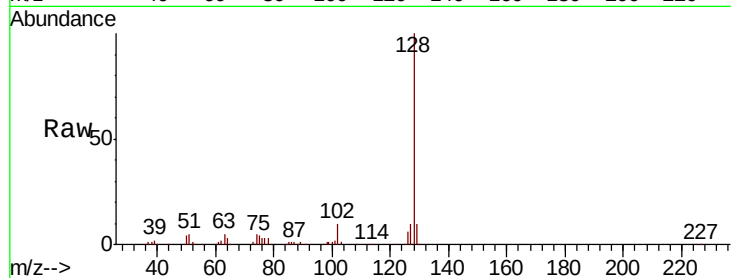
Tot Ion:128 Resp: 404677

Ion Ratio Lower Upper

128 100

127 10.5 9.7 14.5

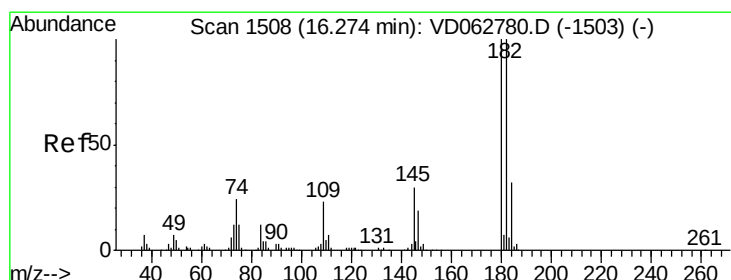
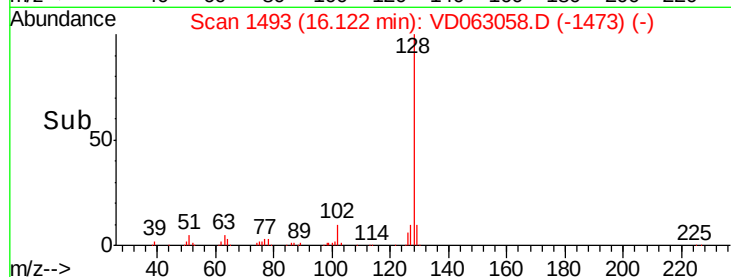
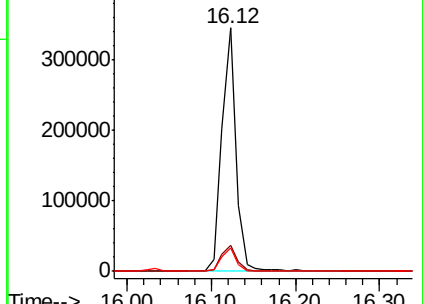
129 9.7 8.3 12.5



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: 21.498 ug/l

RT: 16.27 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VD063058.D

Acq: 10 Jul 2019 15:22

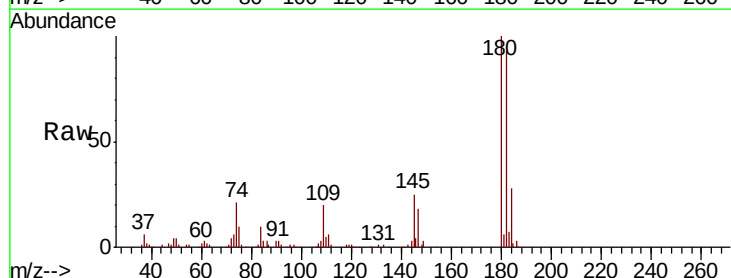
Tgt Ion:180 Resp: 213609

Ion Ratio Lower Upper

180 100

182 93.3 49.9 149.6

145 25.2 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

