

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD071719\
 Data File : VD063132.D
 Acq On : 17 Jul 2019 15:34
 Operator : VA/AP
 Sample : VD0717SBS02
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBS02

Quant Time: Jul 18 06:56:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.04	168	777315	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.21	114	1131727	50.00	ug/l	0.00
63) Chlorobenzene-d5	12.36	117	989921	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	14.52	152	533442	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.45	65	389156	40.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	80.38%	
35) Dibromofluoromethane	6.92	113	425281	37.73	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.46%	
50) Toluene-d8	10.40	98	899737	37.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	74.32%	
62) 4-Bromofluorobenzene	13.55	95	430876	38.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	76.94%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	173284	18.662	ug/l	95
3) Chloromethane	1.74	50	127667	15.825	ug/l #	85
4) Vinyl Chloride	1.83	62	123843	14.928	ug/l	97
5) Bromomethane	2.13	94	56631	15.652	ug/l	90
6) Chloroethane	2.24	64	62331	16.174	ug/l	99
7) Trichlorofluoromethane	2.51	101	276736	16.478	ug/l	99
8) Diethyl Ether	2.86	74	38057	16.109	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	3.13	101	149686	15.457	ug/l	94
10) Methyl Iodide	3.29	142	169708	14.275	ug/l	98
11) Tert butyl alcohol	4.08	59	41960	75.088	ug/l #	94
12) 1,1-Dichloroethene	3.11	96	110667	16.093	ug/l	98
13) Acrolein	3.02	56	14890	88.285	ug/l #	35
14) Allyl chloride	3.60	41	180168	16.670	ug/l	96
15) Acrylonitrile	4.18	53	91572	74.131	ug/l	92
16) Acetone	3.21	43	153279	65.540	ug/l	93
17) Carbon Disulfide	3.35	76	301131	15.299	ug/l	98
18) Methyl Acetate	3.63	43	84627	23.846	ug/l	94
19) Methyl tert-butyl Ether	4.23	73	266053	15.327	ug/l #	91
20) Methylene Chloride	3.80	84	132684	15.017	ug/l	96
21) trans-1,2-Dichloroethene	4.20	96	117182	15.350	ug/l	92
22) Diisopropyl ether	5.11	45	382524	16.279	ug/l	98
23) Vinyl Acetate	5.04	43	1088121	79.373	ug/l	97
24) 1,1-Dichloroethane	4.97	63	241890	16.712	ug/l	98
25) 2-Butanone	6.06	43	165961	74.313	ug/l	100
26) 2,2-Dichloropropane	6.01	77	250365	15.629	ug/l	93
27) cis-1,2-Dichloroethene	6.03	96	137127	15.791	ug/l	82
28) Bromochloromethane	6.43	49	82879	15.783	ug/l	97
29) Tetrahydrofuran	6.45	42	77208	76.265	ug/l	98
30) Chloroform	6.65	83	295548	16.580	ug/l	94
31) Cyclohexane	6.94	56	134196	14.558	ug/l	95
32) 1,1,1-Trichloroethane	6.86	97	287721	16.368	ug/l	95
36) 1,1-Dichloropropene	7.13	75	177950	13.981	ug/l	95
37) Ethyl Acetate	6.18	43	89956	16.514	ug/l	98
38) Carbon Tetrachloride	7.11	117	273595	14.146	ug/l	96

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 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 08:11:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.86	83	141211	12.833	ug/l	93
40) Benzene	7.44	78	406392	15.244	ug/l	100
41) Methacrylonitrile	6.45	41	107085	14.500	ug/l #	92
42) 1,2-Dichloroethane	7.57	62	223209	15.716	ug/l	97
43) Isopropyl Acetate	9.23	43	110971	14.212	ug/l #	92
44) Trichloroethene	8.53	130	157216	15.260	ug/l	94
45) 1,2-Dichloropropane	8.94	63	103252	15.535	ug/l	95
46) Dibromomethane	9.05	93	86803	15.198	ug/l	92
47) Bromodichloromethane	9.37	83	222102	14.902	ug/l #	93
48) Methyl methacrylate	9.11	41	80042	15.610	ug/l	96
49) 1,4-Dioxane	9.08	88	13226	299.090	ug/l #	86
51) 4-Methyl-2-Pentanone	10.30	43	399516	77.146	ug/l	95
52) Toluene	10.50	92	263426	14.798	ug/l	100
53) t-1,3-Dichloropropene	10.91	75	204016	15.977	ug/l	98
54) cis-1,3-Dichloropropene	10.04	75	193136	14.628	ug/l	95
55) 1,1,2-Trichloroethane	11.19	97	95579	15.536	ug/l	96
56) Ethyl methacrylate	11.04	69	99878	14.531	ug/l	96
57) 1,3-Dichloropropane	11.41	76	142543	15.227	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.85	63	235614	61.562	ug/l	98
59) 2-Hexanone	11.53	43	304572	76.260	ug/l	94
60) Dibromochloromethane	11.68	129	185418	15.723	ug/l	98
61) 1,2-Dibromoethane	11.80	107	120629	16.381	ug/l	86
64) Tetrachloroethene	11.26	164	138241	14.392	ug/l	91
65) Chlorobenzene	12.39	112	343256	14.751	ug/l	99
66) 1,1,1,2-Tetrachloroethane	12.51	131	162660	15.077	ug/l	97
67) Ethyl Benzene	12.52	91	614546	15.199	ug/l	99
68) m/p-Xylenes	12.67	106	425140	29.357	ug/l	95
69) o-Xylene	13.05	106	191577	13.951	ug/l	89
70) Styrene	13.07	104	335673	13.965	ug/l	95
71) Bromoform	13.24	173	112412	14.883	ug/l #	97
73) Isopropylbenzene	13.41	105	624027	15.148	ug/l	97
74) N-amyl acetate	13.27	43	161671	14.072	ug/l #	94
75) 1,1,2,2-Tetrachloroethane	13.70	83	111774	14.912	ug/l	96
76) 1,2,3-Trichloropropane	13.73	75	123806	15.087	ug/l	94
77) Bromobenzene	13.67	156	169108	14.475	ug/l	86
78) n-propylbenzene	13.77	91	732011	15.441	ug/l	97
79) 2-Chlorotoluene	13.84	91	450344	15.711	ug/l	97
80) 1,3,5-Trimethylbenzene	13.93	105	565808	15.759	ug/l	100
81) trans-1,4-Dichloro-2-buten	13.47	75	30247	13.997	ug/l	96
82) 4-Chlorotoluene	13.95	91	539174	16.108	ug/l	98
83) tert-Butylbenzene	14.18	119	597265	14.712	ug/l	83
84) 1,2,4-Trimethylbenzene	14.23	105	569026	15.897	ug/l	99
85) sec-Butylbenzene	14.37	105	621473	14.408	ug/l	99
86) p-Isopropyltoluene	14.49	119	602419	14.971	ug/l	98
87) 1,3-Dichlorobenzene	14.46	146	322368	15.451	ug/l	97
88) 1,4-Dichlorobenzene	14.54	146	314432	15.721	ug/l	97
89) n-Butylbenzene	14.79	91	570239	15.375	ug/l	96
90) Hexachloroethane	15.01	117	150371	13.979	ug/l	97
91) 1,2-Dichlorobenzene	14.80	146	279288	15.033	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	20293	14.125	ug/l	91

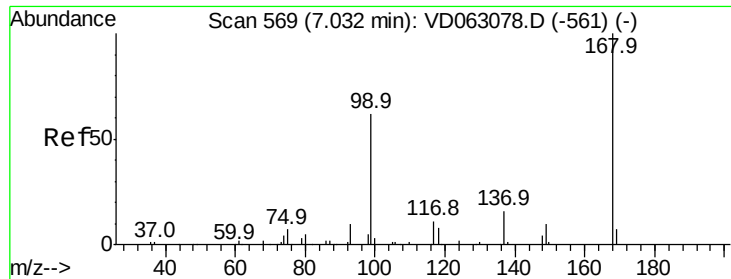
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD071719\
Data File : VD063132.D
Acq On : 17 Jul 2019 15:34
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Sample : VD0717SBSD02
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D071519S.M
Quant Title : SW846 8260
QLast Update : Tue Jul 16 08:11:56 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.95	180	211400	15.146	ug/l	98
94) Hexachlorobutadiene	16.03	225	155221	15.088	ug/l	94
95) Naphthalene	16.12	128	314170	15.388	ug/l	96
96) 1,2,3-Trichlorobenzene	16.27	180	172292	15.345	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.04 min Scan# 570

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

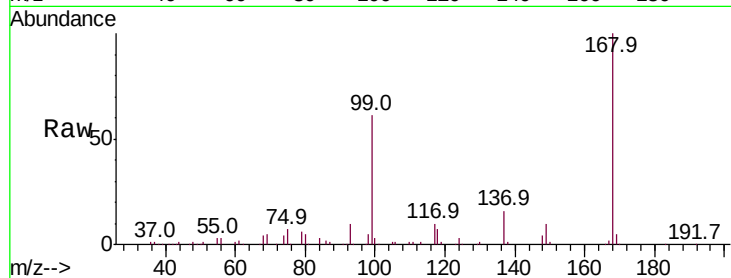
VD0717SBS02

Tot Ion:168 Resp: 777315

Ion Ratio Lower Upper

168 100

99 61.1 50.8 76.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

300000

250000

200000

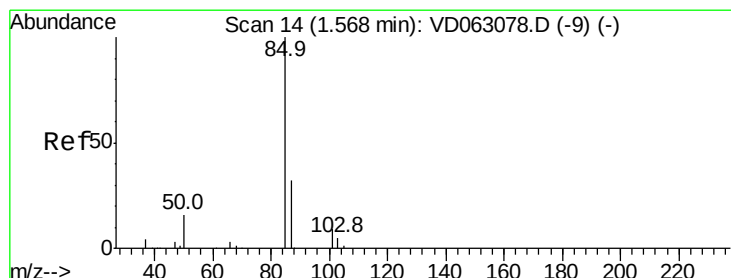
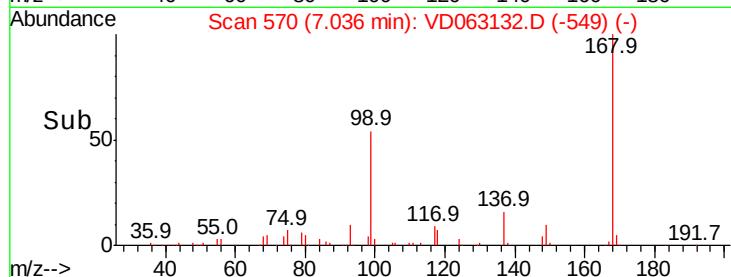
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 18.662 ug/l

RT: 1.56 min Scan# 14

Delta R.T. -0.01 min

Lab File: VD063132.D

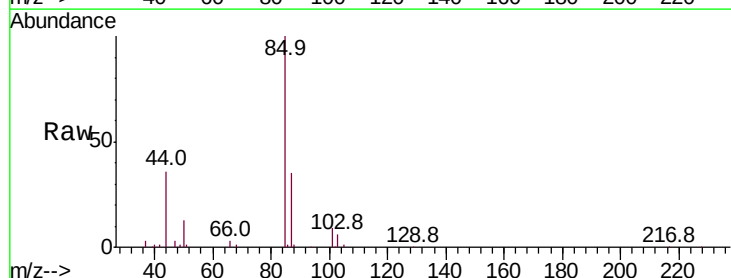
Acq: 17 Jul 2019 15:34

Tgt Ion: 85 Resp: 173284

Ion Ratio Lower Upper

85 100

87 34.7 15.9 47.7



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.56

100000

80000

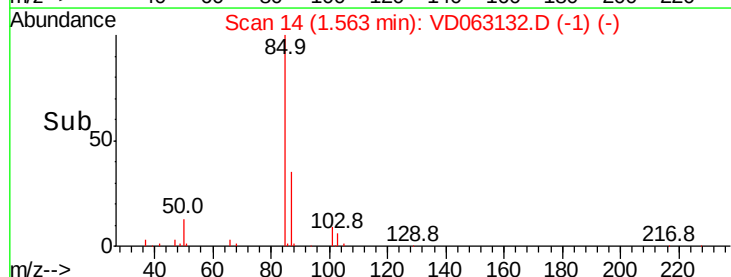
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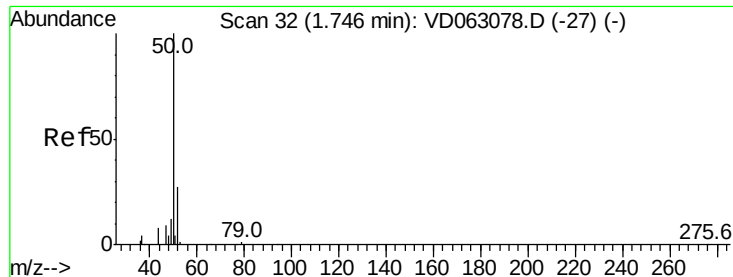
40000

20000

0

Time-->





#3

Chloromethane

Concen: 15.825 ug/l

RT: 1.74 min Scan# 32

Delta R.T. -0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

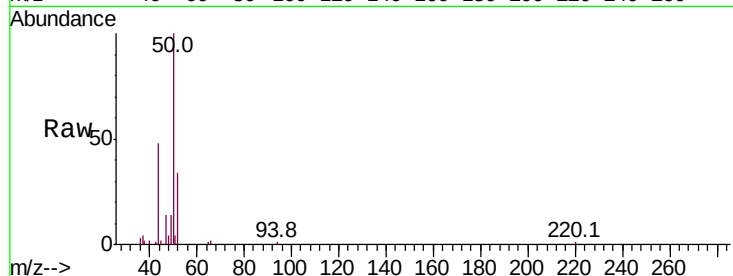
VD0717SBSD02

Tot Ion: 50 Resp: 127667

Ion Ratio Lower Upper

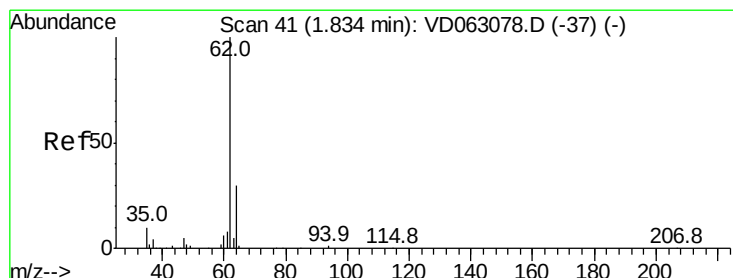
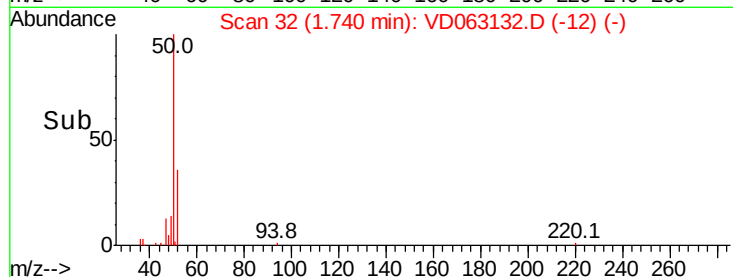
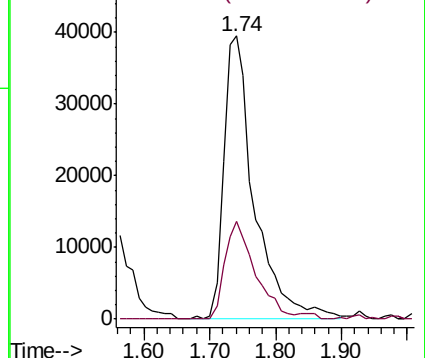
50 100

52 34.3 21.4 32.2#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 14.928 ug/l

RT: 1.83 min Scan# 41

Delta R.T. -0.01 min

Lab File: VD063132.D

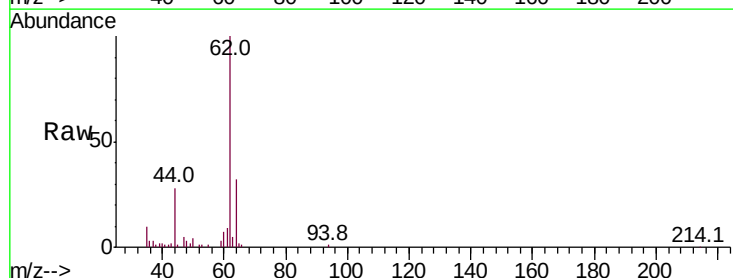
Acq: 17 Jul 2019 15:34

Tgt Ion: 62 Resp: 123843

Ion Ratio Lower Upper

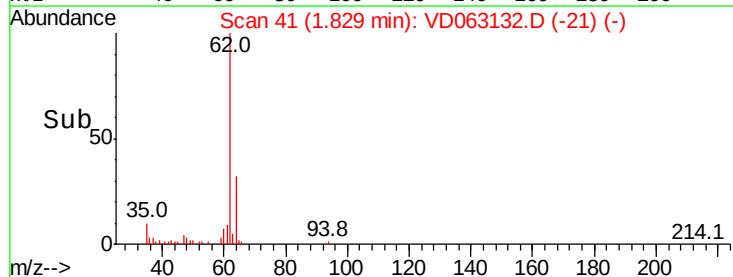
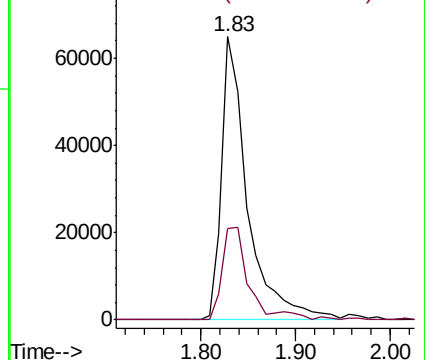
62 100

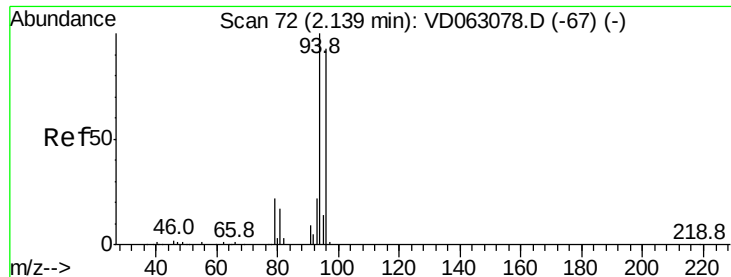
64 32.4 24.4 36.6



Abundance Ion 61.95 (61.65 to 62.65): VDC

Ion 63.95 (63.65 to 64.65): VDC





#5

Bromomethane

Concen: 15.652 ug/l

RT: 2.13 min Scan# 72

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

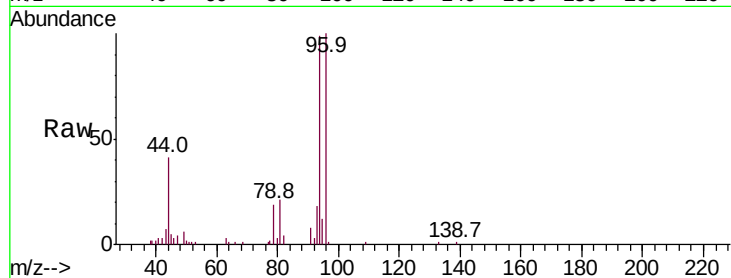
Tot Ion: 94 Resp: 56631

Ion Ratio Lower Upper

94 100

96 102.1 74.2 111.2

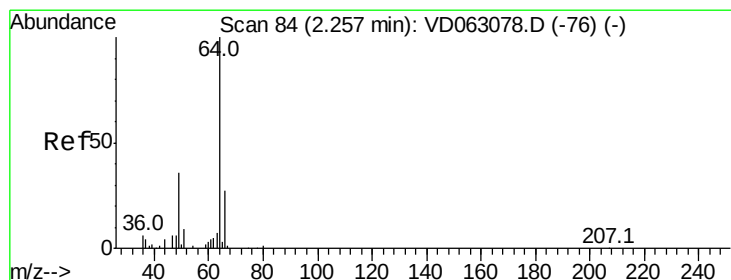
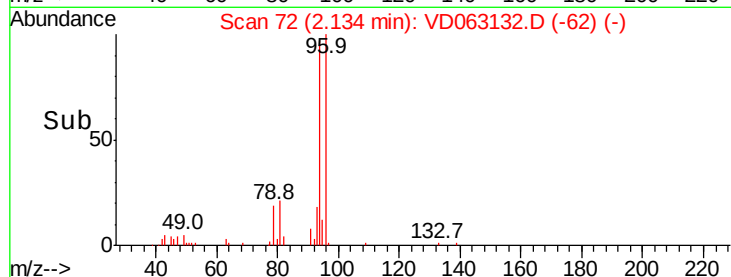
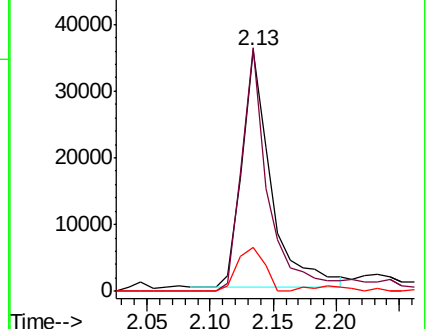
93 18.1 17.8 26.6



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: 16.174 ug/l

RT: 2.24 min Scan# 83

Delta R.T. -0.02 min

Lab File: VD063132.D

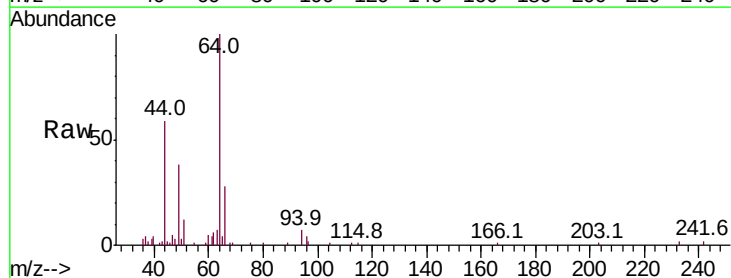
Acq: 17 Jul 2019 15:34

Tgt Ion: 64 Resp: 62331

Ion Ratio Lower Upper

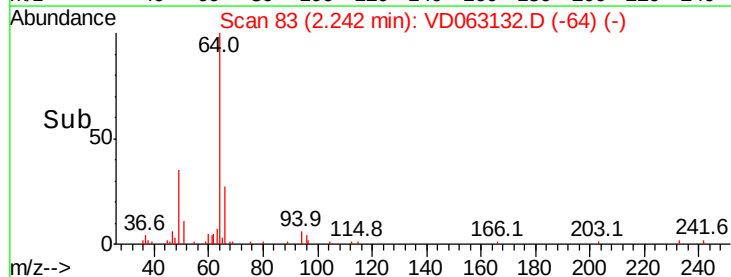
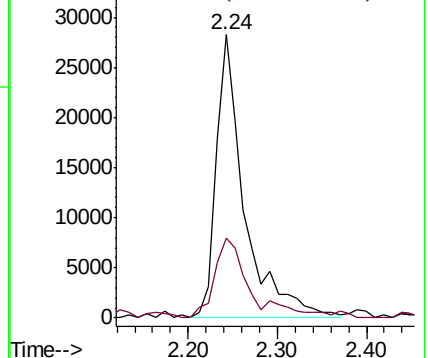
64 100

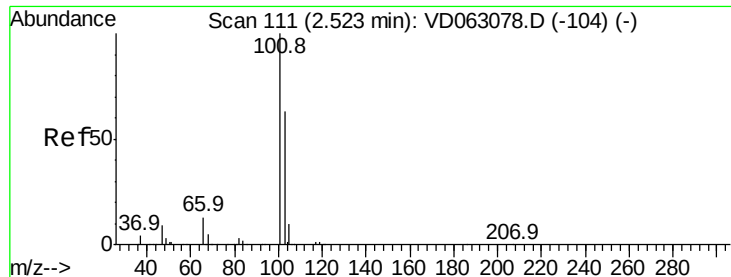
66 28.4 22.5 33.7



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC





#7

Trichlorofluoromethane

Concen: 16.478 ug/l

RT: 2.51 min Scan# 110

Delta R.T. -0.02 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

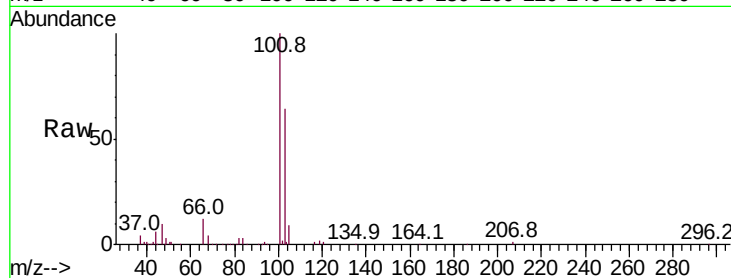
VD0717SBSD02

Tot Ion:101 Resp: 276736

Ion Ratio Lower Upper

101 100

103 64.4 50.6 76.0



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 102.85 (102.55 to 103.55): V

2.51

150000

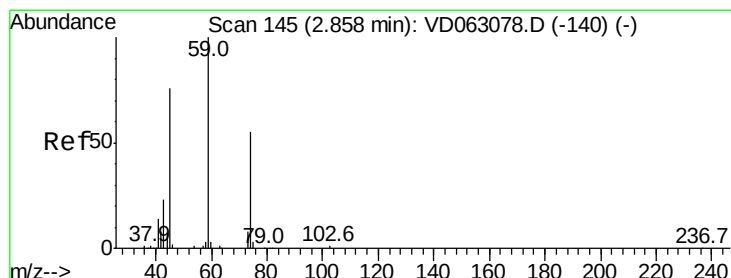
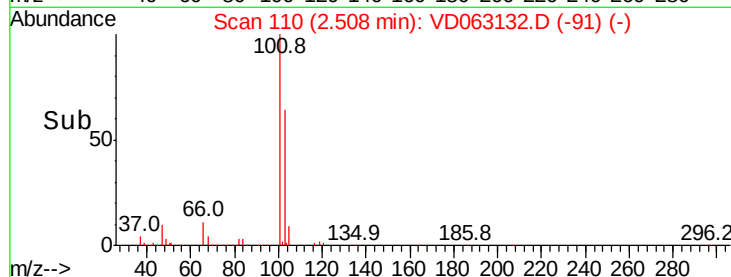
100000

50000

0

Time-->

2.40 2.50 2.60 2.70



#8

Diethyl Ether

Concen: 16.109 ug/l

RT: 2.86 min Scan# 146

Delta R.T. 0.00 min

Lab File: VD063132.D

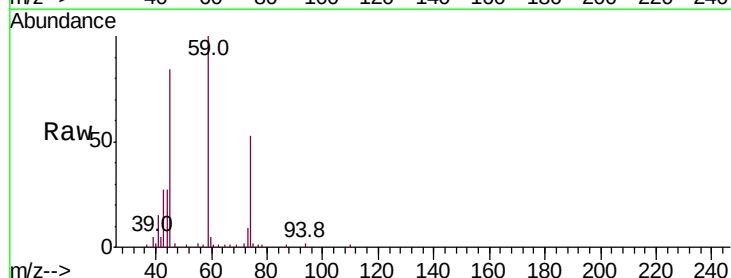
Acq: 17 Jul 2019 15:34

Tgt Ion: 74 Resp: 38057

Ion Ratio Lower Upper

74 100

45 159.4 69.5 208.7



Abundance Ion 74.00 (73.70 to 74.70): VDC

Ion 45.05 (44.75 to 45.75): VDC

30000

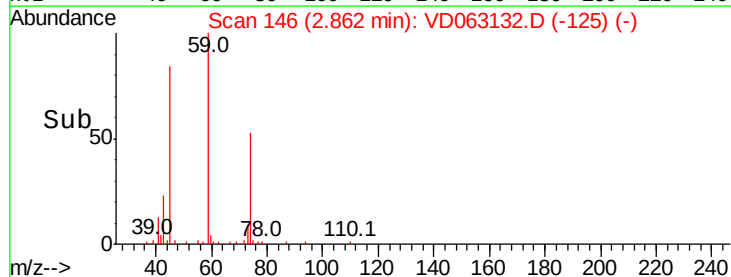
20000

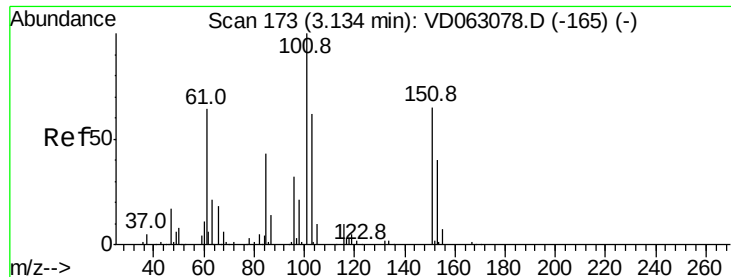
10000

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Time-->

2.75 2.80 2.85 2.90 2.95





#9

1,1,2-Trichlorotrifluoroethane

Concen: 15.457 ug/l

RT: 3.13 min Scan# 173

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBSD02

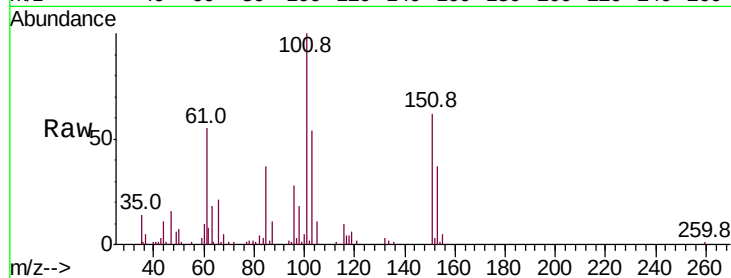
Tot Ion:101 Resp: 149686

Ion Ratio Lower Upper

101 100

85 37.3 34.6 51.8

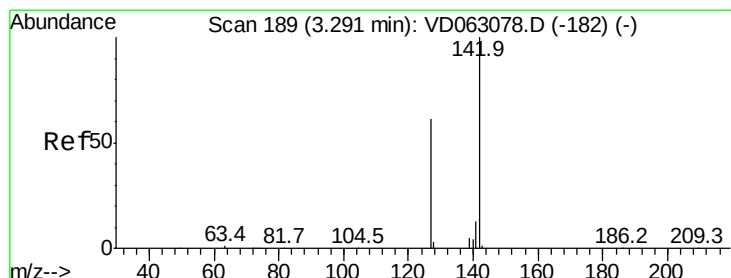
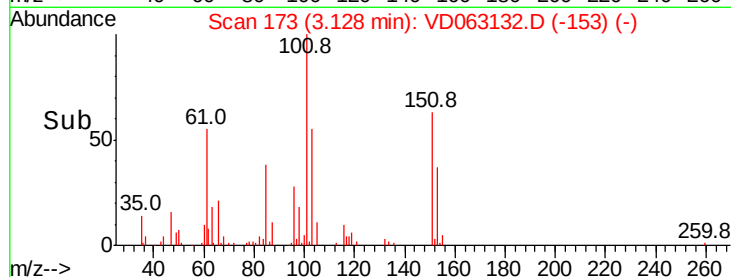
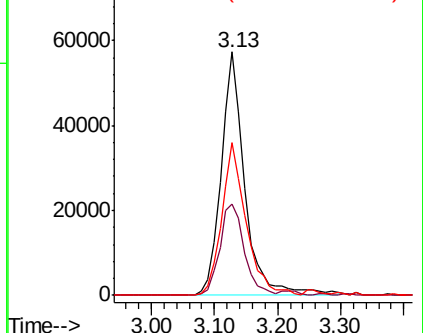
151 62.5 52.4 78.6



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 14.275 ug/l

RT: 3.29 min Scan# 189

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

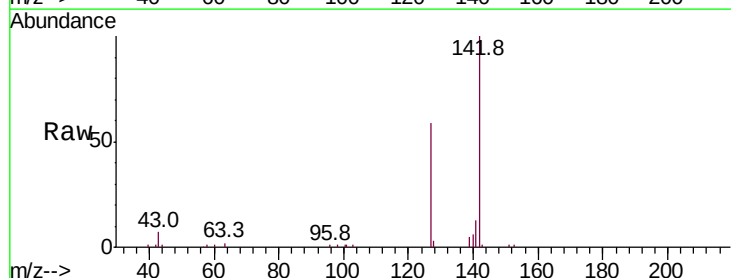
Tgt Ion:142 Resp: 169708

Ion Ratio Lower Upper

142 100

127 58.7 48.6 73.0

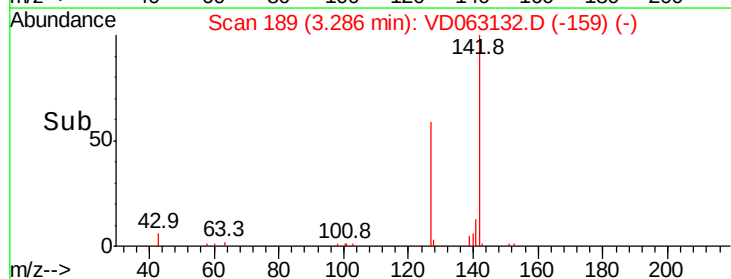
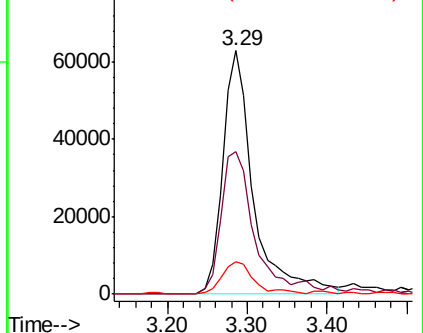
141 13.3 10.6 16.0

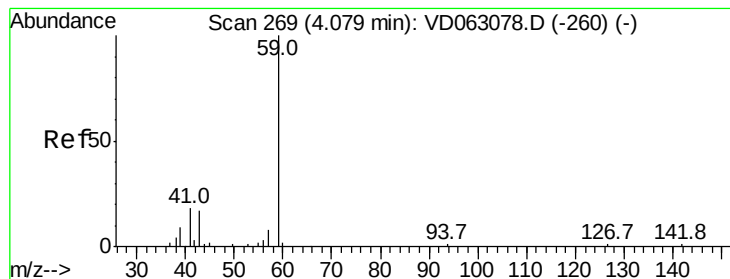


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V



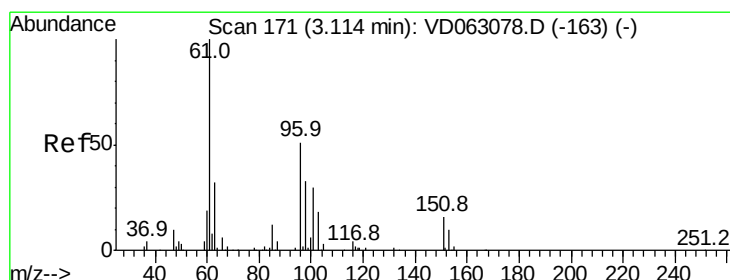
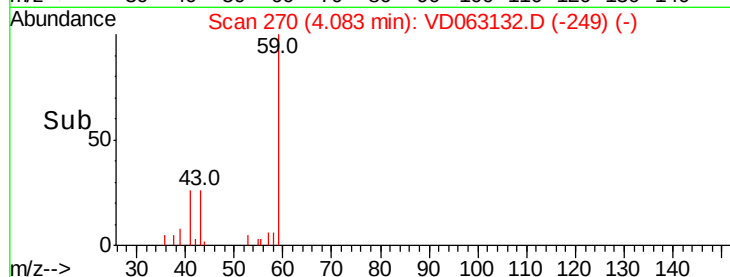
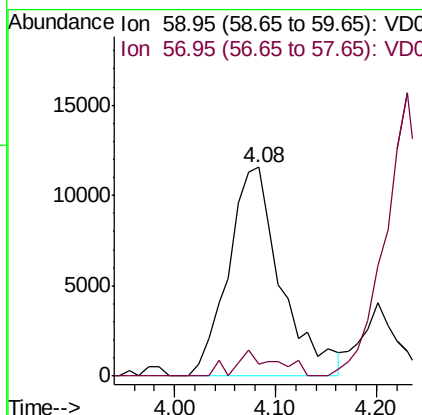
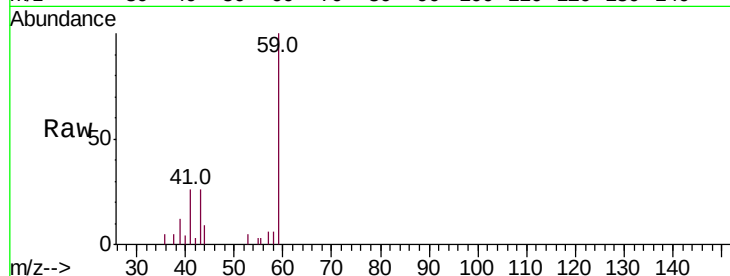


#11

Tert butyl alcohol
 Concen: 75.088 ug/l
 RT: 4.08 min Scan# 270
 Delta R.T. 0.00 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBS02

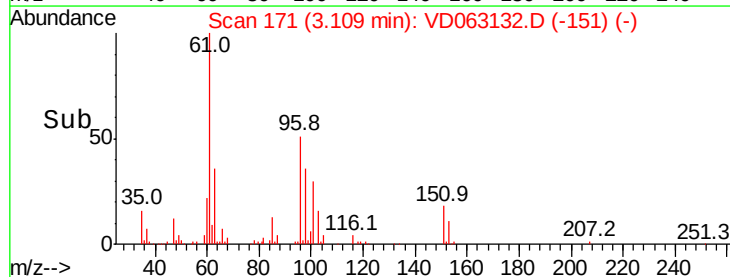
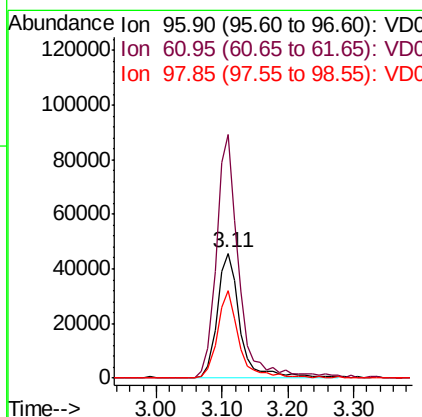
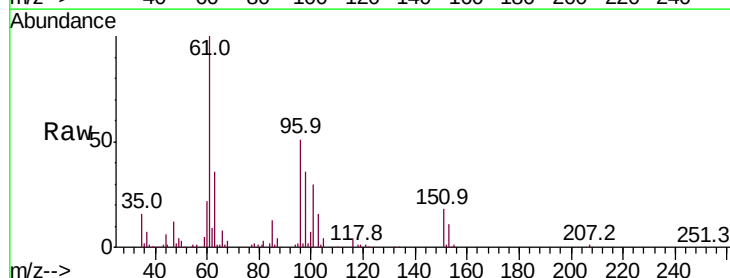
Tot Ion: 59 Resp: 41960
 Ion Ratio Lower Upper
 59 100
 57 5.7 6.4 9.6#

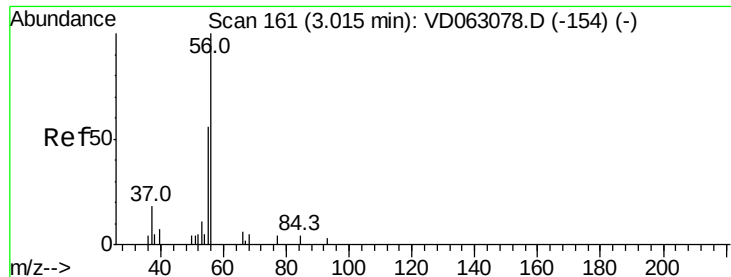


#12

1,1-Dichloroethene
 Concen: 16.093 ug/l
 RT: 3.11 min Scan# 171
 Delta R.T. -0.01 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Tgt Ion: 96 Resp: 110667
 Ion Ratio Lower Upper
 96 100
 61 195.3 155.5 233.3
 98 70.1 51.5 77.3





#13

Acrolein

Concen: 88.285 ug/l

RT: 3.02 min Scan# 162

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

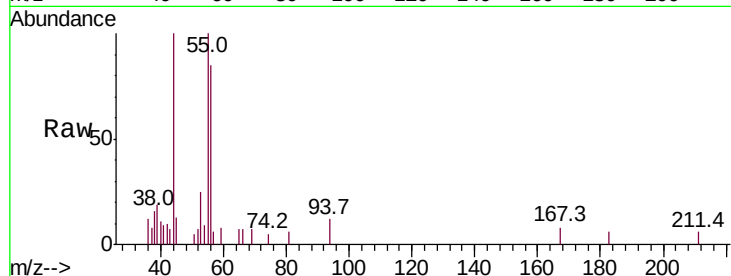
VD0717SBS02

Tot Ion: 56 Resp: 14890

Ion Ratio Lower Upper

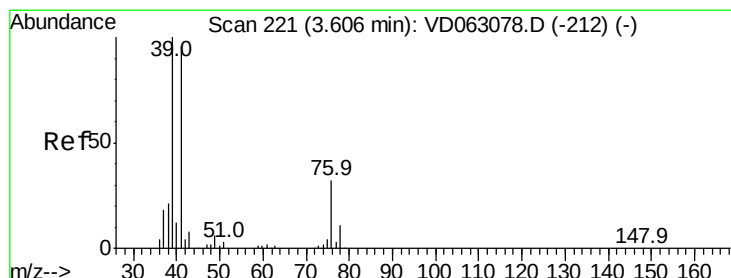
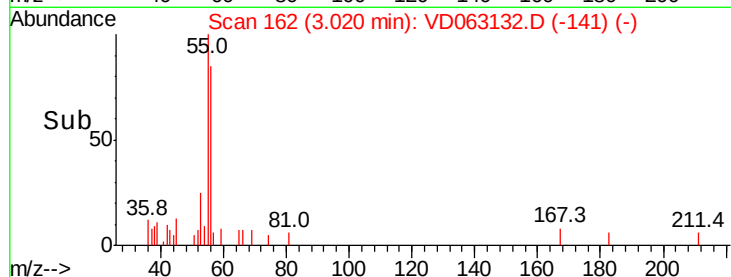
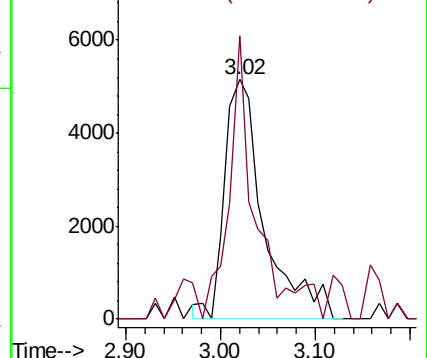
56 100

55 118.1 53.0 79.4#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 16.670 ug/l

RT: 3.60 min Scan# 221

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

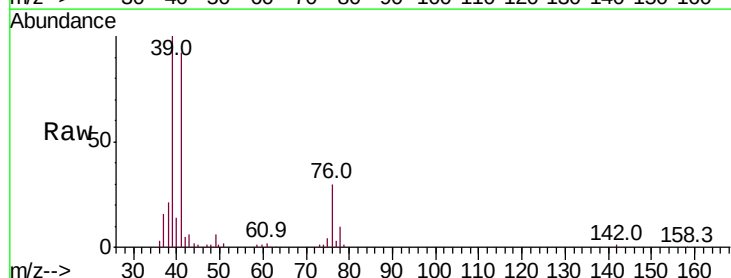
Tgt Ion: 41 Resp: 180168

Ion Ratio Lower Upper

41 100

39 108.6 83.5 125.3

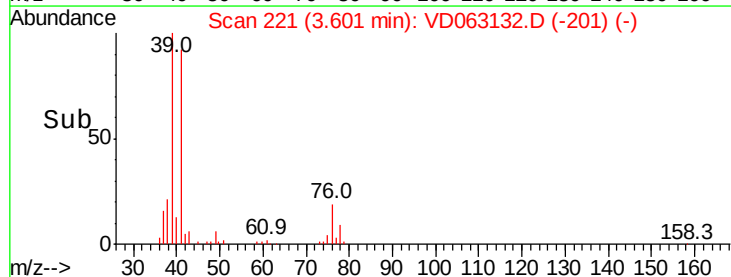
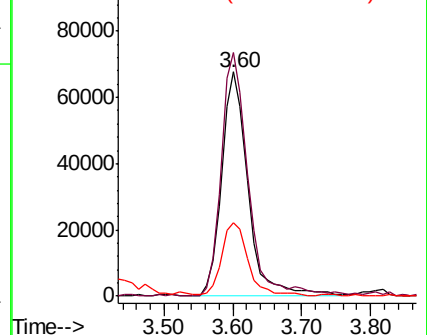
76 32.6 27.8 41.8

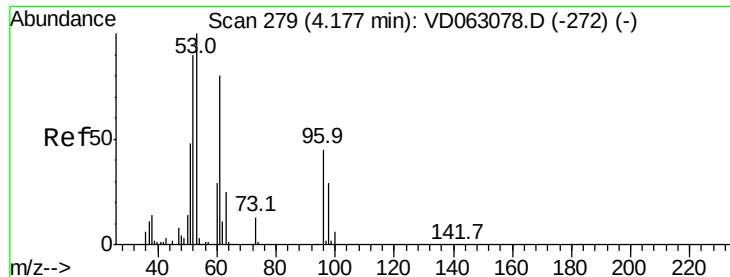


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 74.131 ug/l

RT: 4.18 min Scan# 280

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

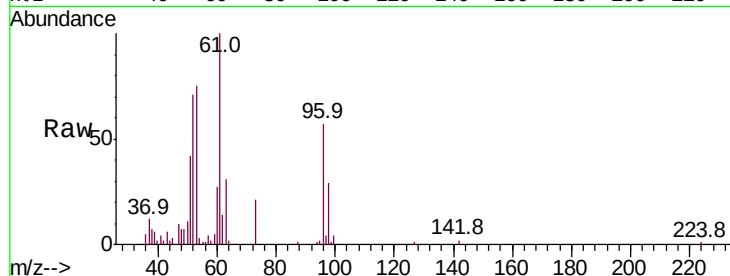
Tot Ion: 53 Resp: 91572

Ion Ratio Lower Upper

53 100

52 95.1 72.3 108.5

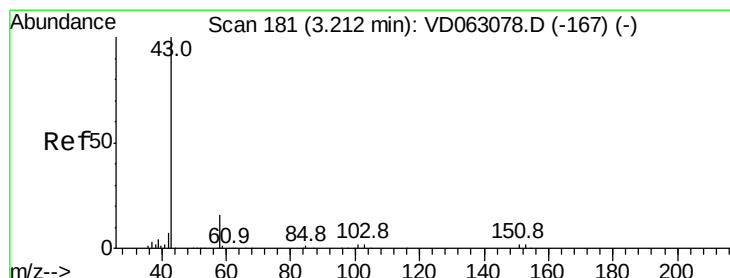
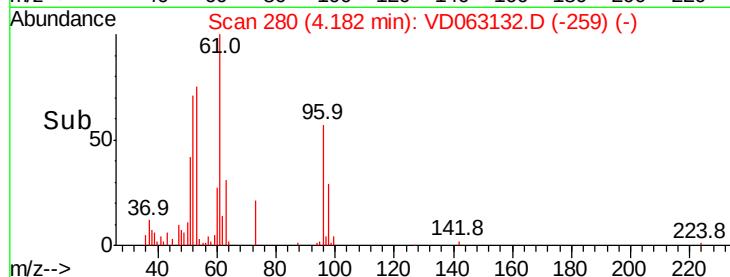
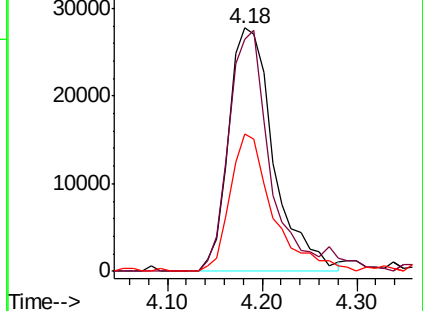
51 56.3 38.0 57.0



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 65.540 ug/l

RT: 3.21 min Scan# 181

Delta R.T. -0.01 min

Lab File: VD063132.D

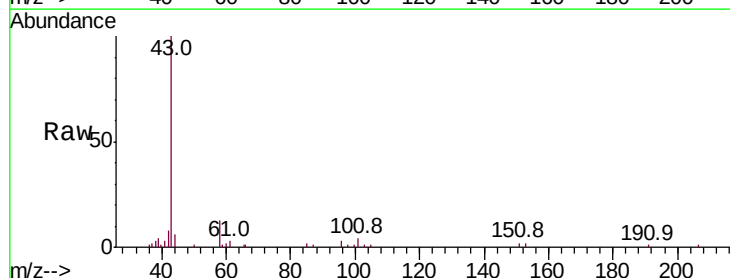
Acq: 17 Jul 2019 15:34

Tgt Ion: 43 Resp: 153279

Ion Ratio Lower Upper

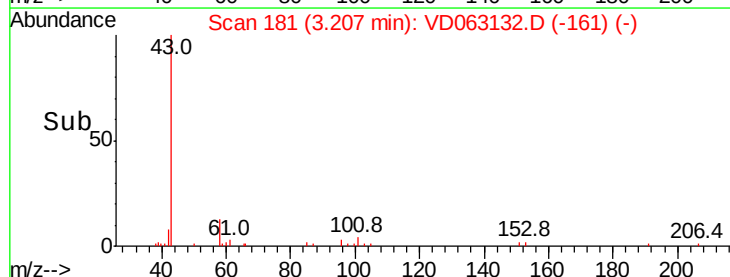
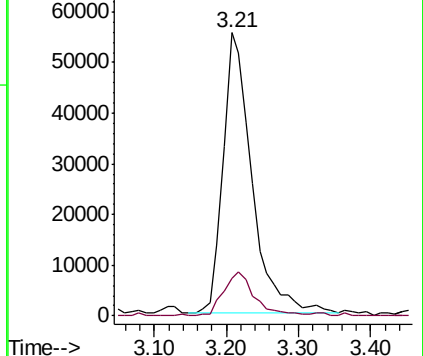
43 100

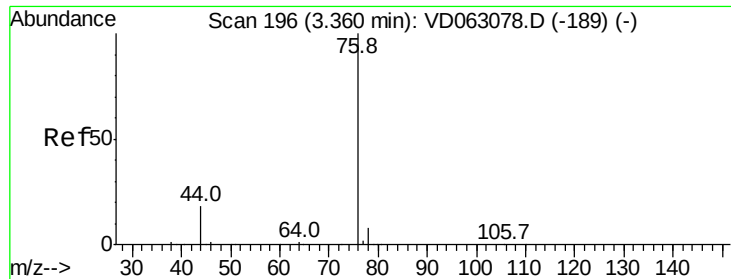
58 13.1 13.0 19.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 15.299 ug/l

RT: 3.35 min Scan# 196

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

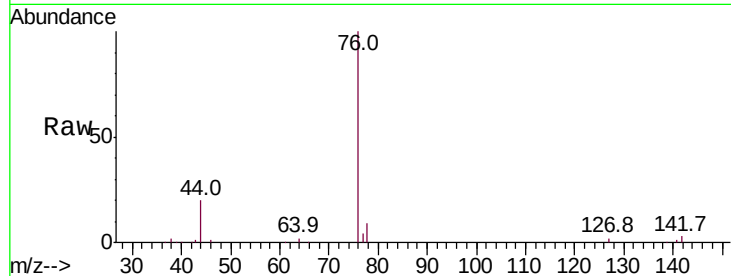
VD0717SBSD02

Tot Ion: 76 Resp: 301131

Ion Ratio Lower Upper

76 100

78 9.0 6.7 10.1



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC

3.35

150000

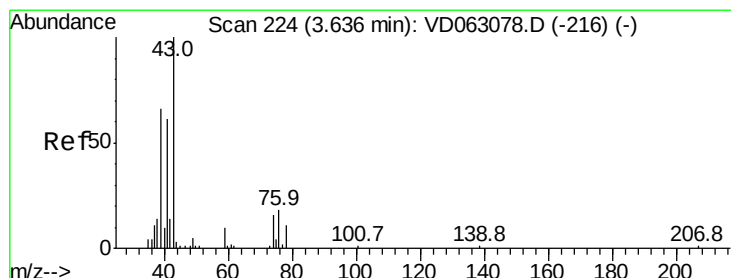
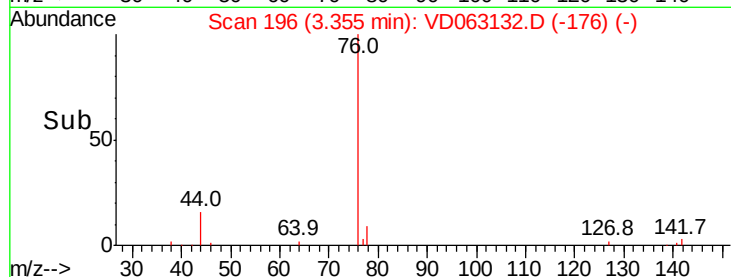
100000

50000

0

Time-->

3.20 3.30 3.40 3.50



#18

Methyl Acetate

Concen: 23.846 ug/l

RT: 3.63 min Scan# 224

Delta R.T. -0.00 min

Lab File: VD063132.D

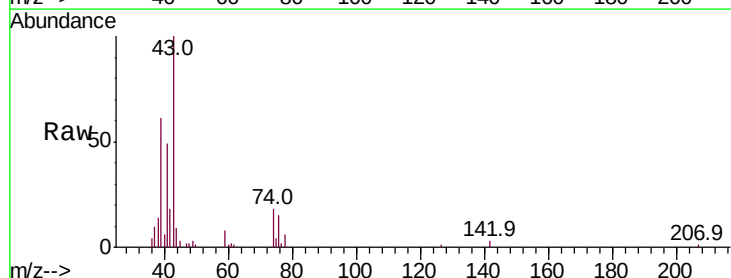
Acq: 17 Jul 2019 15:34

Tgt Ion: 43 Resp: 84627

Ion Ratio Lower Upper

43 100

74 18.2 12.5 18.7



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

3.63

30000

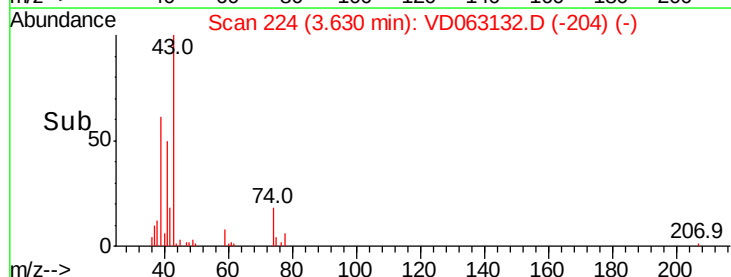
20000

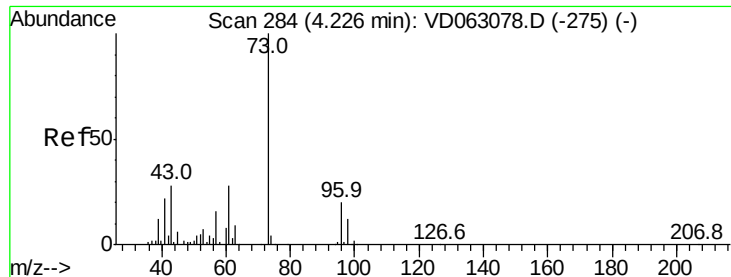
10000

0

Time-->

3.50 3.60 3.70



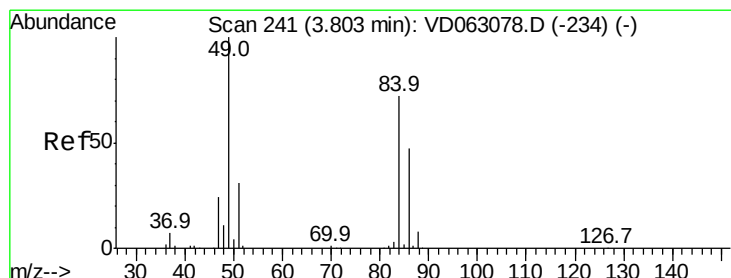
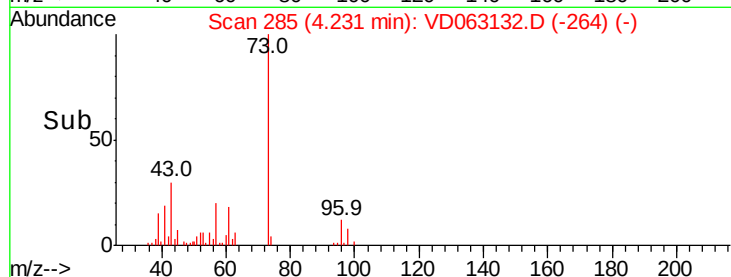
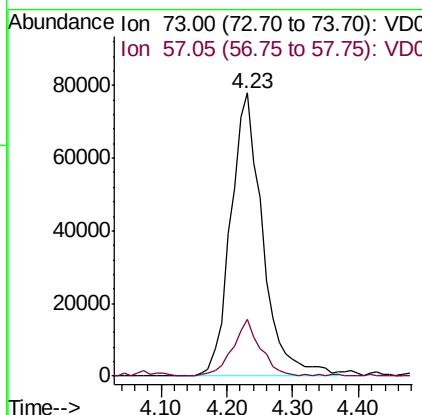
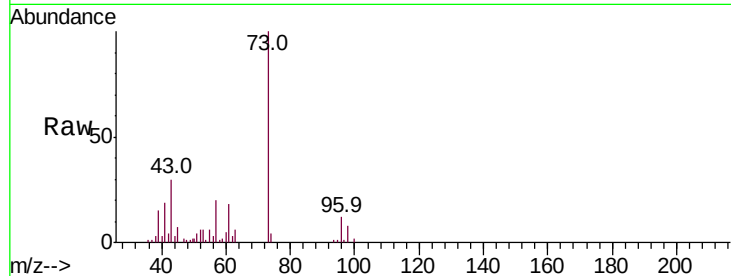


#19

Methyl tert-butyl Ether
 Concen: 15.327 ug/l
 RT: 4.23 min Scan# 285
 Delta R.T. 0.00 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBS02

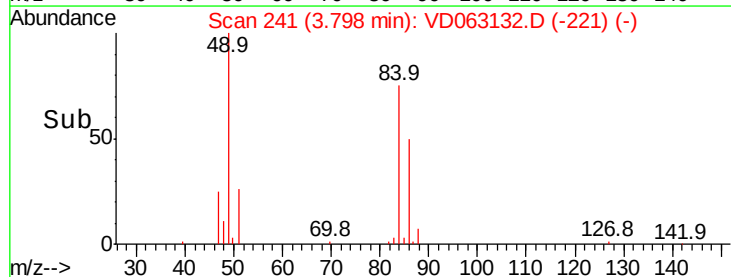
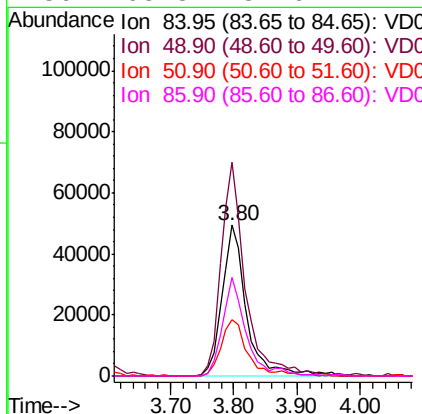
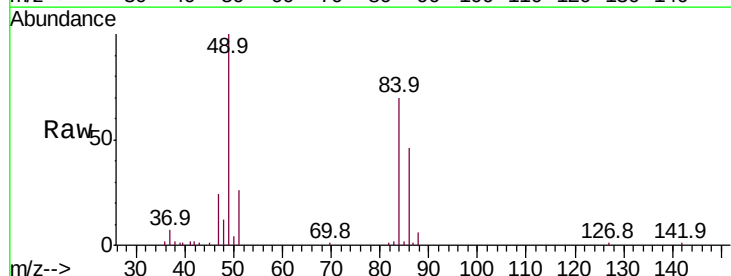
Tot Ion: 73 Resp: 266053
 Ion Ratio Lower Upper
 73 100
 57 20.1 13.1 19.7#

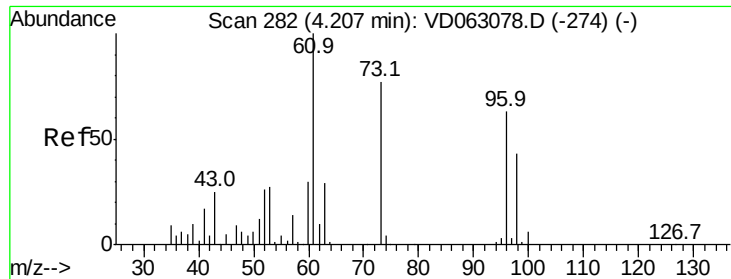


#20

Methylene Chloride
 Concen: 15.017 ug/l
 RT: 3.80 min Scan# 241
 Delta R.T. -0.01 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Tgt Ion: 84 Resp: 132684
 Ion Ratio Lower Upper
 84 100
 49 141.8 110.5 165.7
 51 37.4 34.6 51.8
 86 65.8 51.6 77.4





#21

trans-1,2-Dichloroethene

Concen: 15.350 ug/l

RT: 4.20 min Scan# 282

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

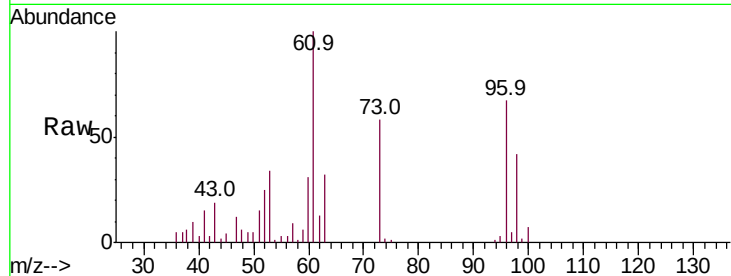
Tot Ion: 96 Resp: 117182

Ion Ratio Lower Upper

96 100

61 149.5 128.0 192.0

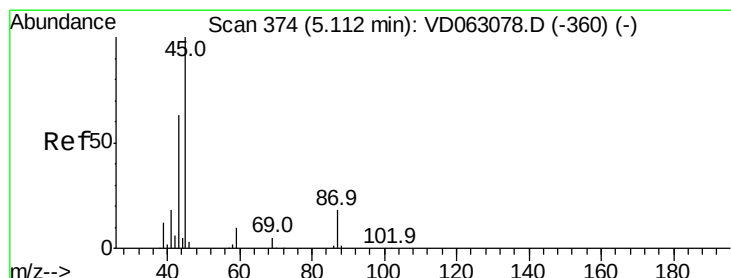
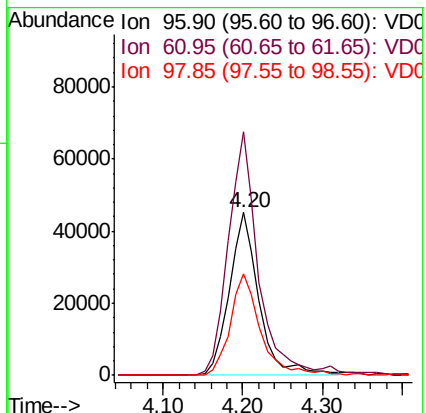
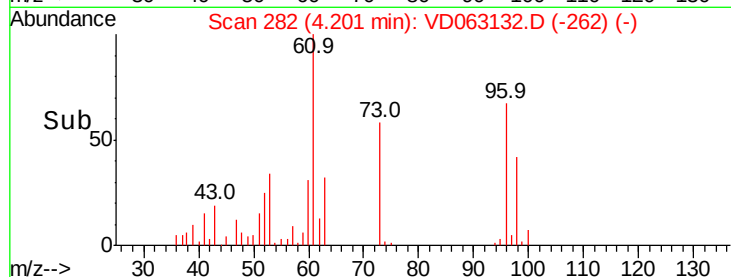
98 62.2 55.2 82.8



Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 16.279 ug/l

RT: 5.11 min Scan# 374

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Tgt Ion: 45 Resp: 382524

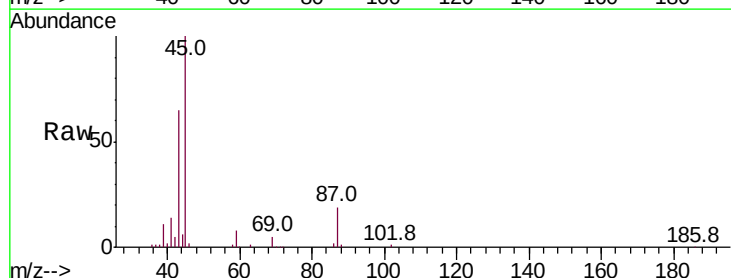
Ion Ratio Lower Upper

45 100

43 65.1 50.5 75.7

87 19.4 15.1 22.7

59 7.9 7.6 11.4

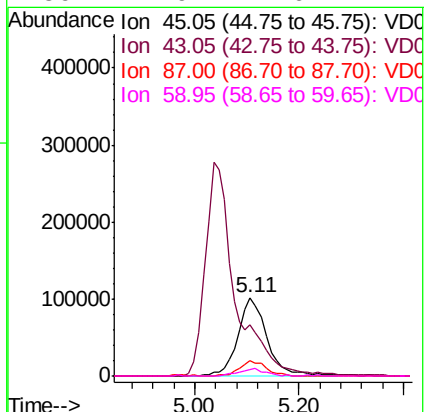
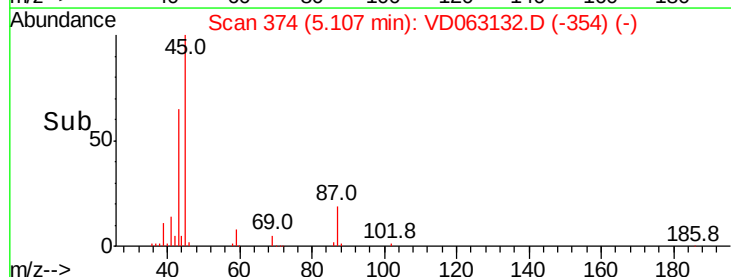


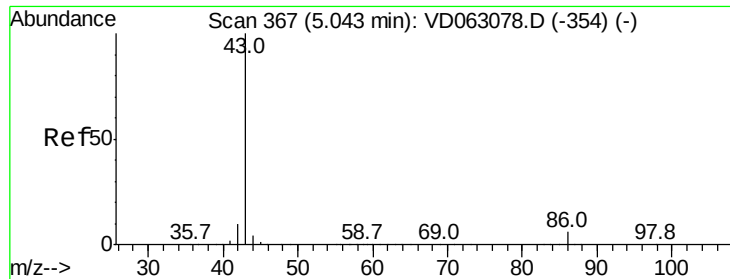
Abundance Ion 45.05 (44.75 to 45.75): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 87.00 (86.70 to 87.70): VDC

Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 79.373 ug/l

RT: 5.04 min Scan# 367

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

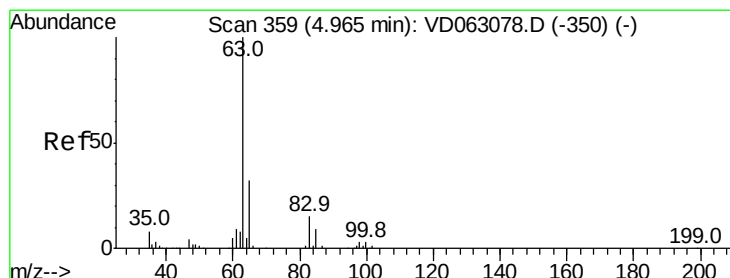
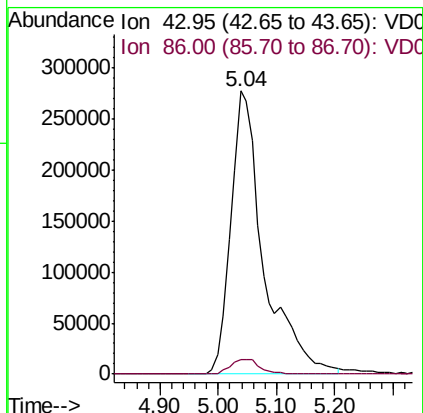
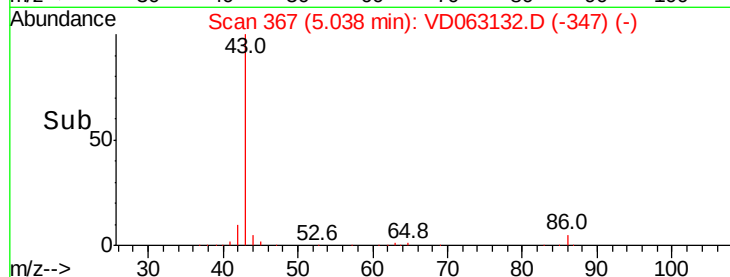
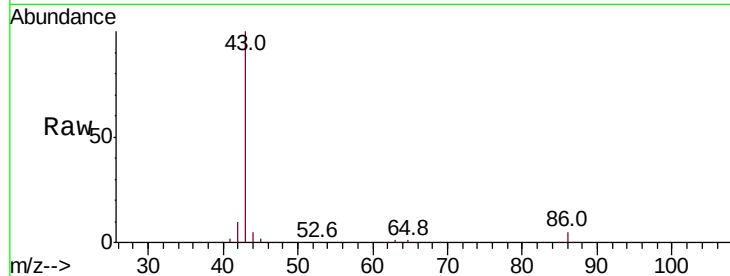
VD0717SBS02

Tot Ion: 43 Resp: 1088121

Ion Ratio Lower Upper

43 100

86 5.3 5.0 7.6



#24

1,1-Dichloroethane

Concen: 16.712 ug/l

RT: 4.97 min Scan# 360

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

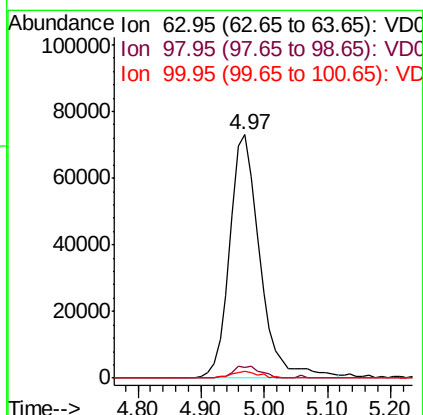
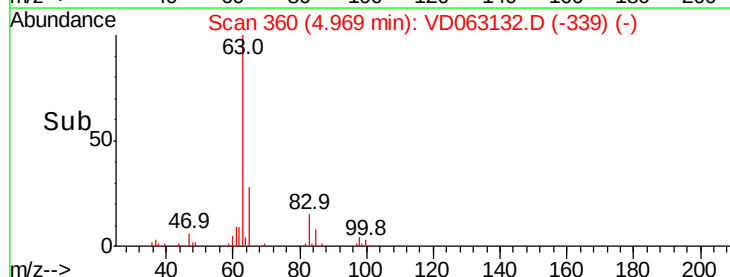
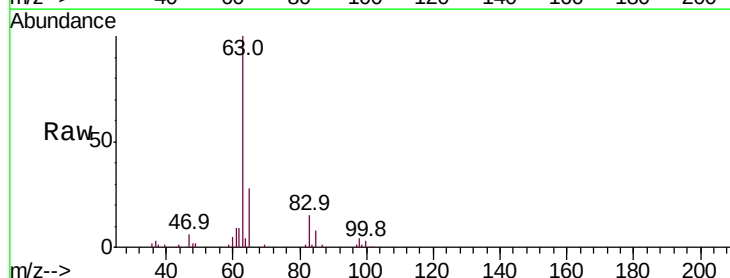
Tgt Ion: 63 Resp: 241890

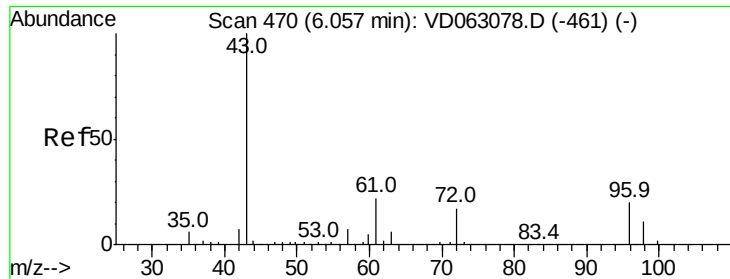
Ion Ratio Lower Upper

63 100

98 4.2 1.7 5.1

100 2.6 1.5 4.5





#25

2-Butanone

Concen: 74.313 ug/l

RT: 6.06 min Scan# 471

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

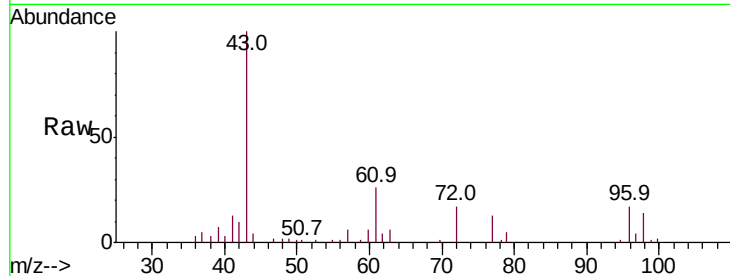
VD0717SBS02

Tot Ion: 43 Resp: 165961

Ion Ratio Lower Upper

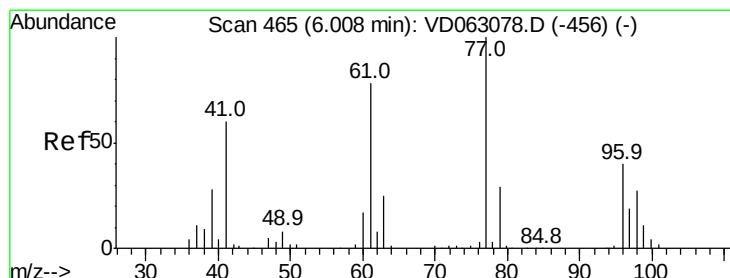
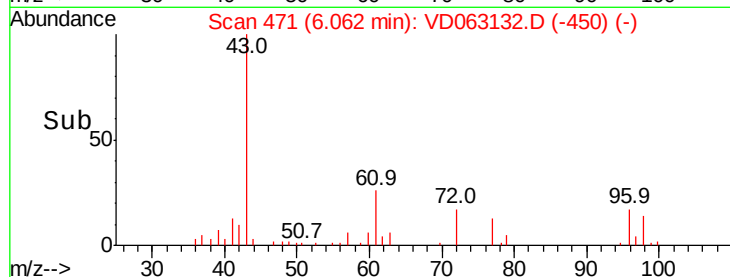
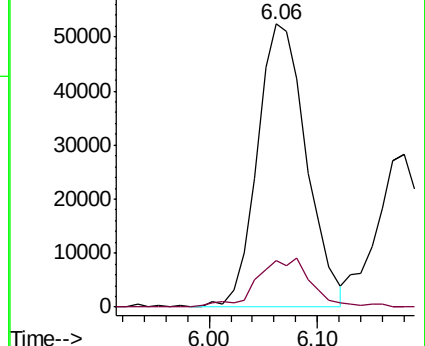
43 100

72 16.7 13.4 20.0



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 15.629 ug/l

RT: 6.01 min Scan# 466

Delta R.T. 0.00 min

Lab File: VD063132.D

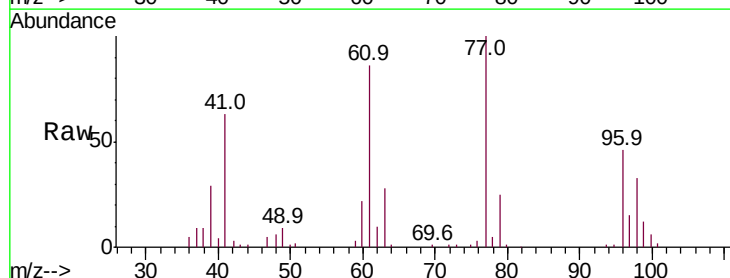
Acq: 17 Jul 2019 15:34

Tgt Ion: 77 Resp: 250365

Ion Ratio Lower Upper

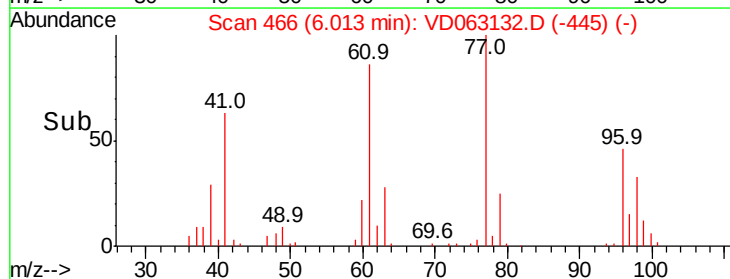
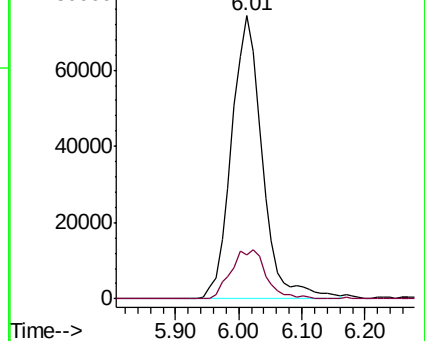
77 100

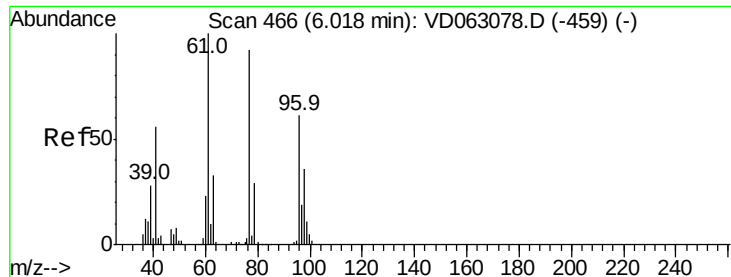
97 15.4 9.3 27.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



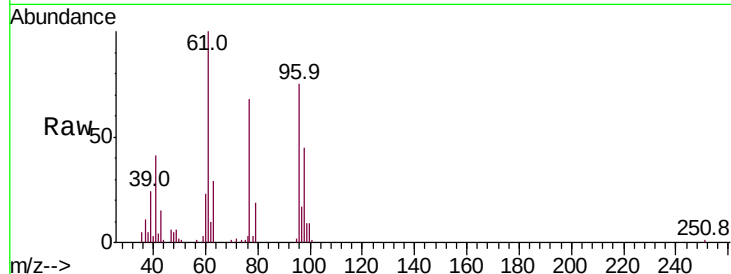


#27

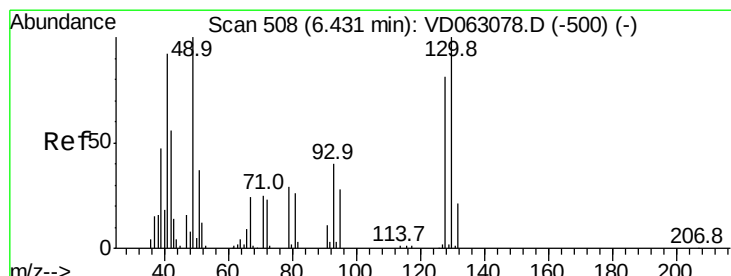
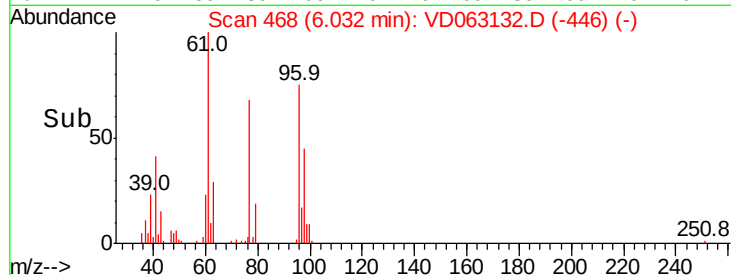
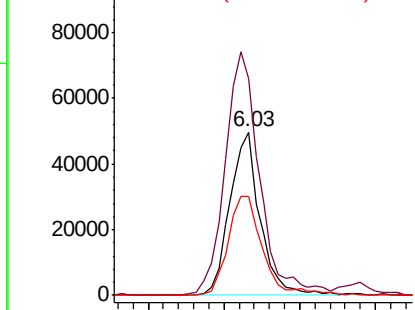
cis-1,2-Dichloroethene
Concen: 15.791 ug/l
RT: 6.03 min Scan# 468
Delta R.T. 0.01 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS02

Tot Ion: 96 Resp: 137127
Ion Ratio Lower Upper
96 100
61 132.6 0.0 329.6
98 60.3 0.0 118.4



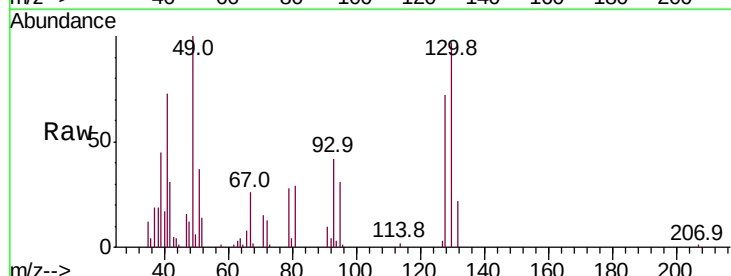
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



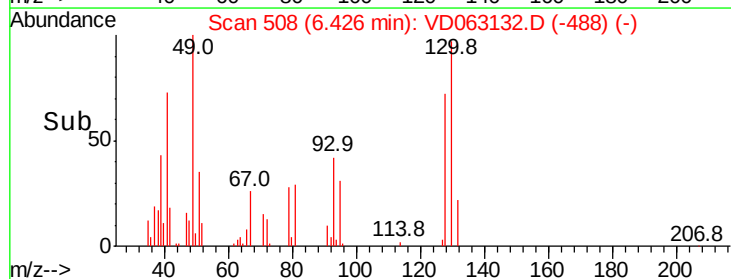
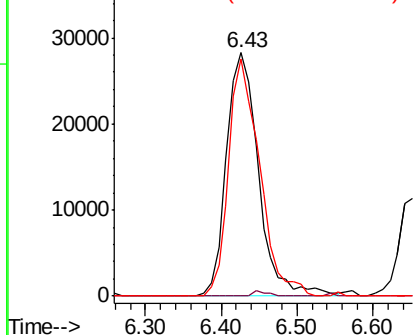
#28

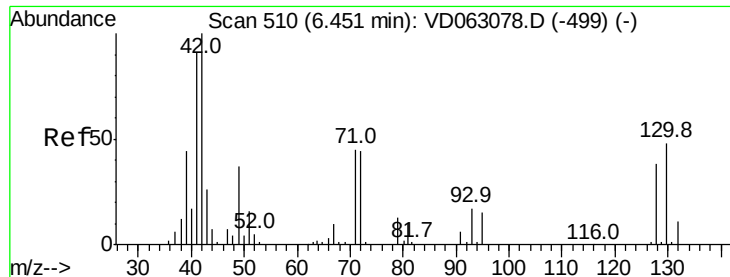
Bromochloromethane
Concen: 15.783 ug/l
RT: 6.43 min Scan# 508
Delta R.T. -0.01 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion: 49 Resp: 82879
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 97.3 80.3 120.5



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





#29

Tetrahydrofuran

Concen: 76.265 ug/l

RT: 6.45 min Scan# 510

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

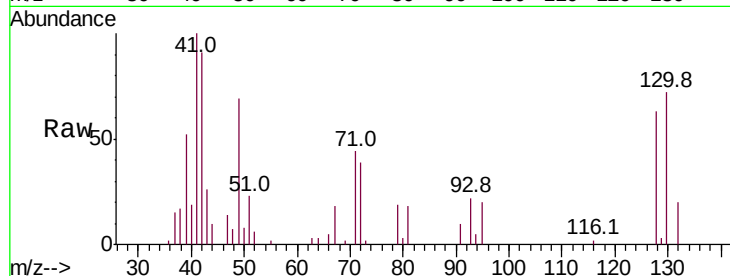
Tot Ion: 42 Resp: 77208

Ion Ratio Lower Upper

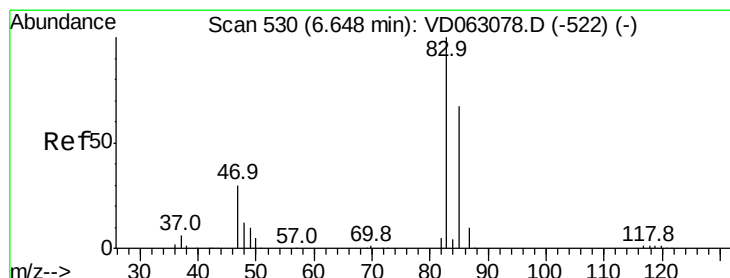
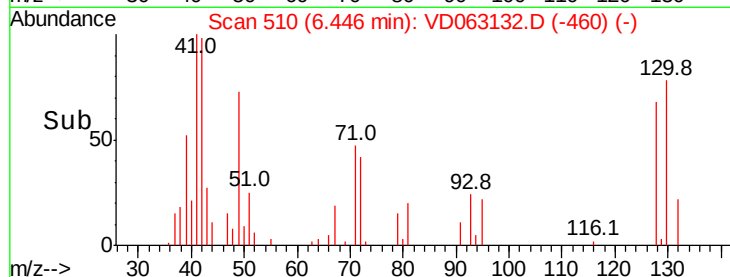
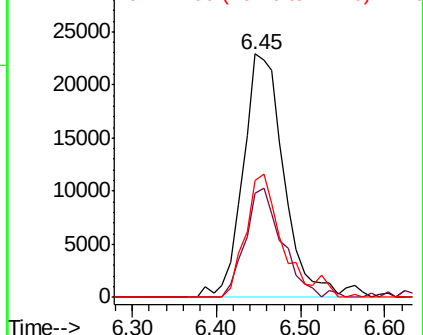
42 100

72 41.0 33.7 50.5

71 43.7 34.2 51.2



Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC



#30

Chloroform

Concen: 16.580 ug/l

RT: 6.65 min Scan# 531

Delta R.T. 0.00 min

Lab File: VD063132.D

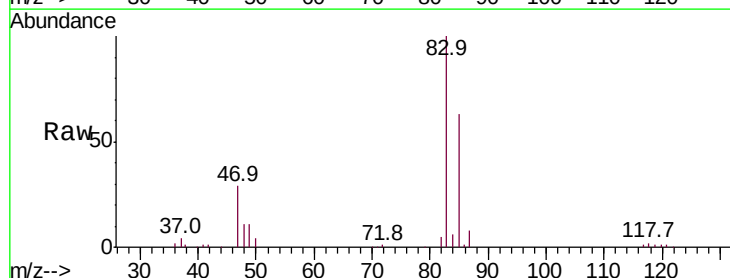
Acq: 17 Jul 2019 15:34

Tgt Ion: 83 Resp: 295548

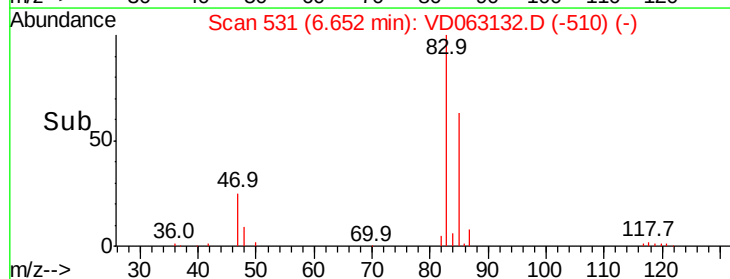
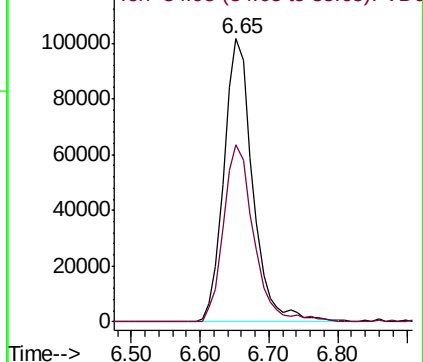
Ion Ratio Lower Upper

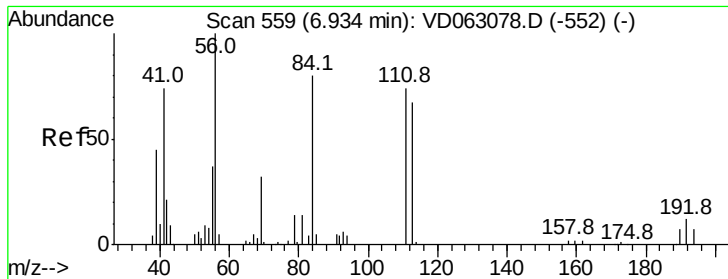
83 100

85 62.7 53.8 80.8



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

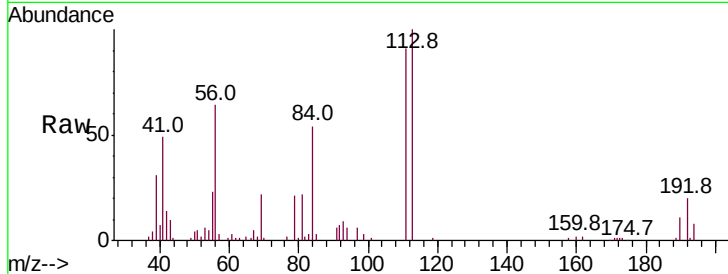




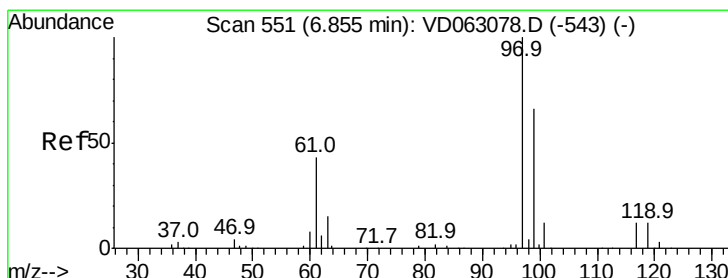
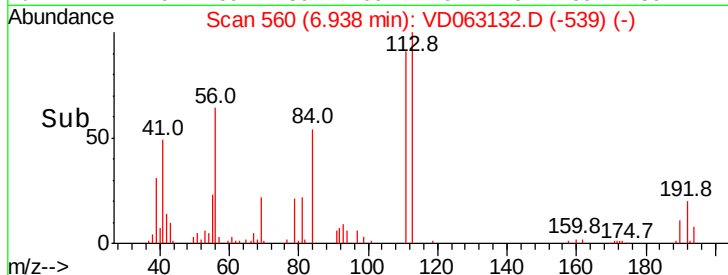
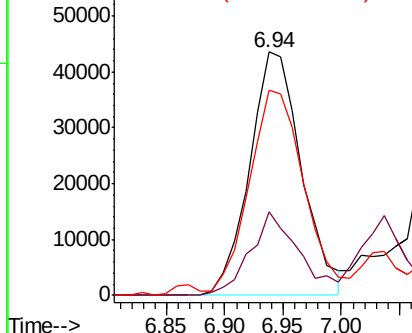
#31
Cyclohexane
Concen: 14.558 ug/l
RT: 6.94 min Scan# 560
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS02

Tot Ion: 56 Resp: 134196
Ion Ratio Lower Upper
56 100
69 34.6 25.3 37.9
84 84.1 64.2 96.4

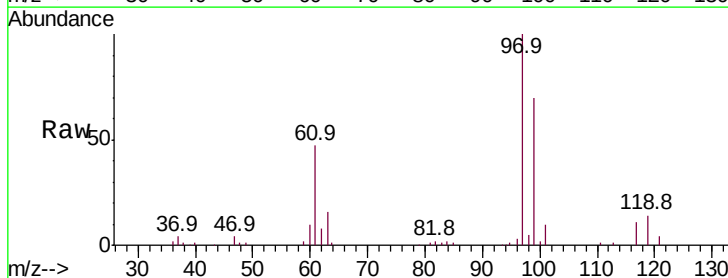


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

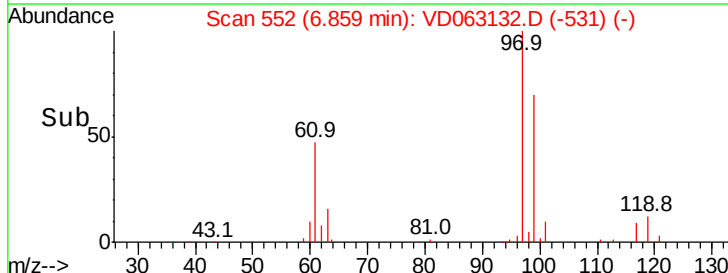
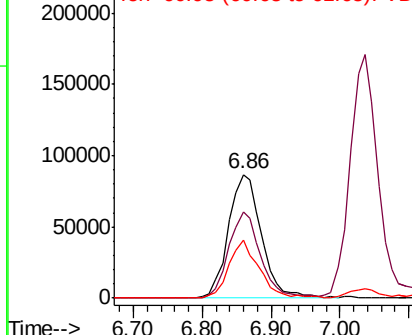


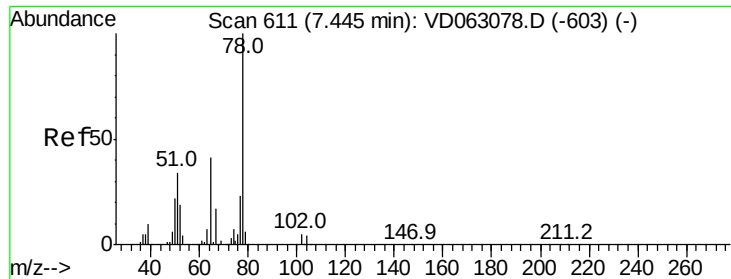
#32
1,1,1-Trichloroethane
Concen: 16.368 ug/l
RT: 6.86 min Scan# 552
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion: 97 Resp: 287721
Ion Ratio Lower Upper
97 100
99 69.6 52.9 79.3
61 47.1 34.4 51.6



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





#33

1,2-Dichloroethane-d4

Concen: 40.190 ug/l

RT: 7.45 min Scan# 612

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

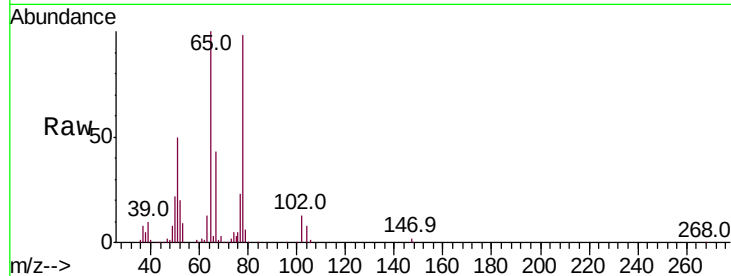
VD0717SBS02

Tot Ion: 65 Resp: 389156

Ion Ratio Lower Upper

65 100

67 42.8 0.0 86.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.45

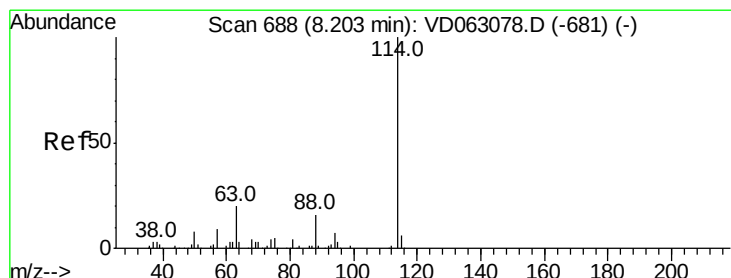
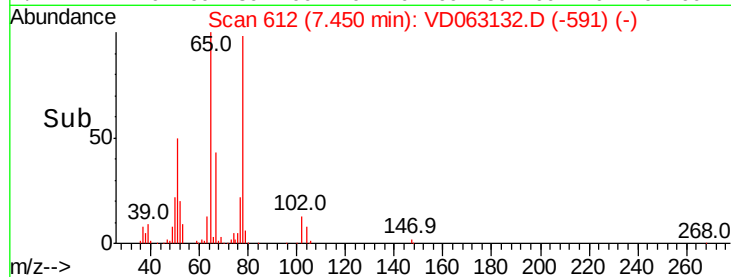
150000

100000

50000

0

Time--> 7.30 7.40 7.50



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.21 min Scan# 689

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

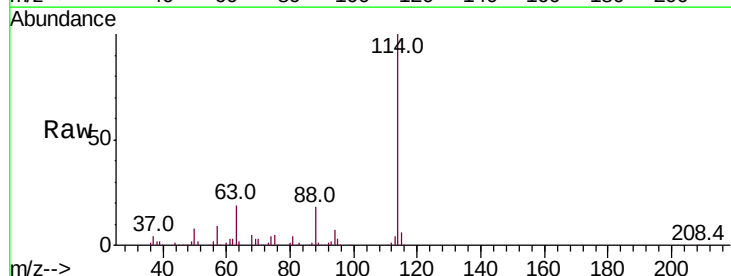
Tgt Ion: 114 Resp: 1131727

Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.6

88 17.7 0.0 32.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

8.21

600000

500000

400000

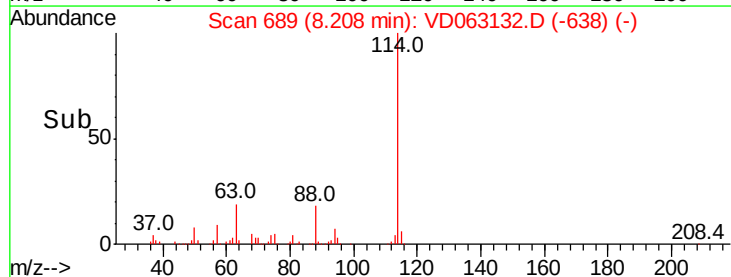
300000

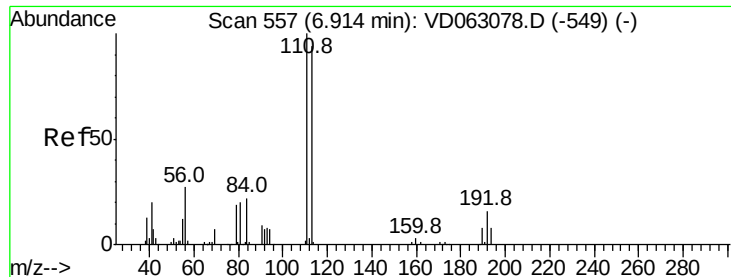
200000

100000

0

Time--> 8.00 8.20 8.40





#35

Dibromofluoromethane

Concen: 37.728 ug/l

RT: 6.92 min Scan# 558

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBSD02

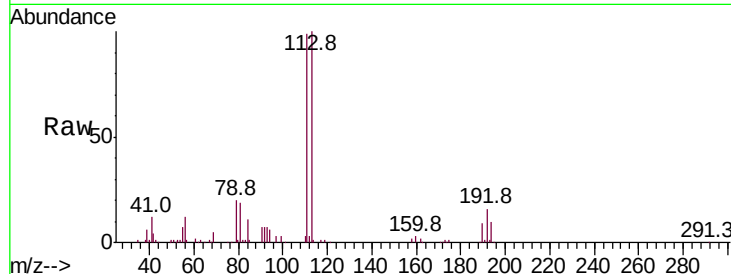
Tot Ion:113 Resp: 425281

Ion Ratio Lower Upper

113 100

111 98.9 84.8 127.2

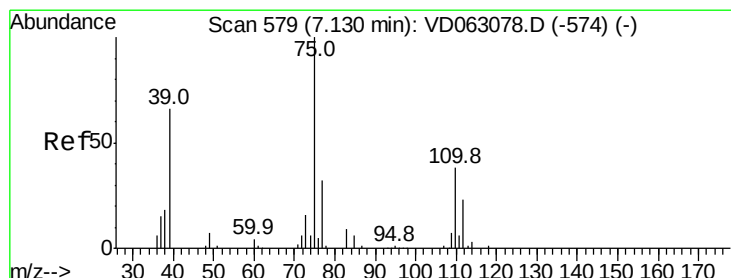
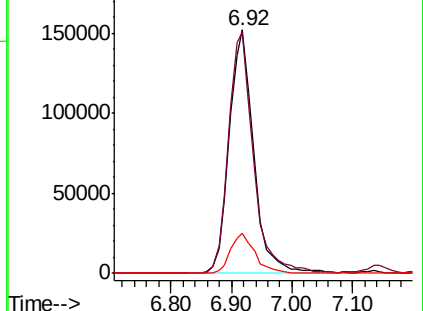
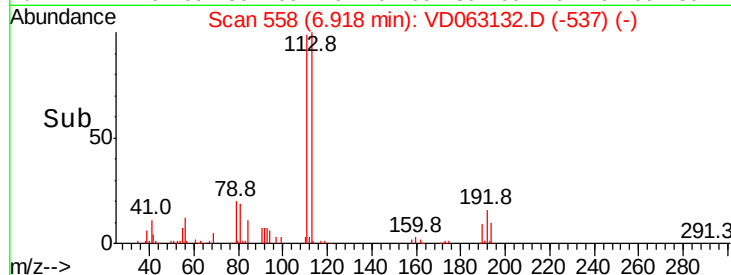
192 16.3 13.4 20.0



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 13.981 ug/l

RT: 7.13 min Scan# 580

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

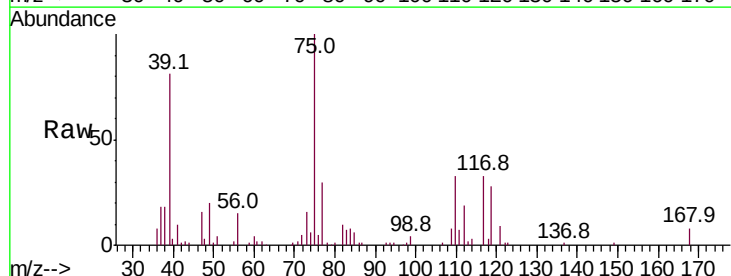
Tgt Ion: 75 Resp: 177950

Ion Ratio Lower Upper

75 100

110 33.4 18.9 56.5

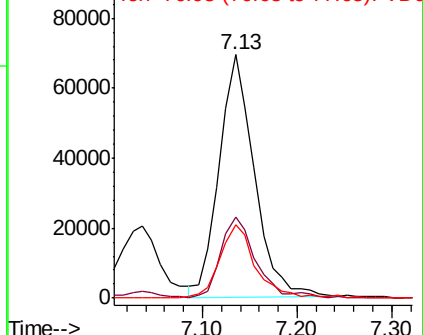
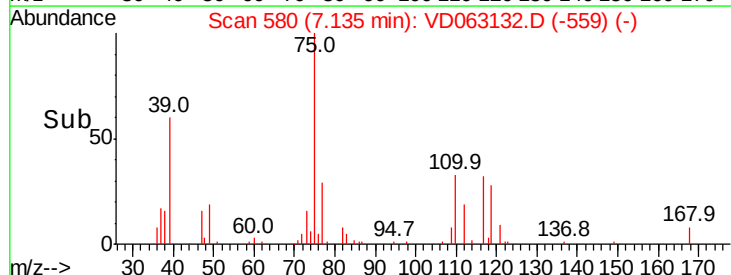
77 30.3 25.2 37.8

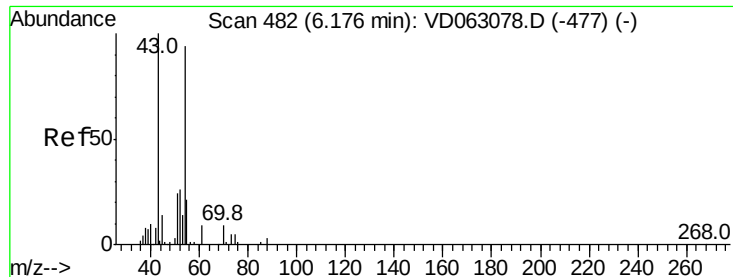


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

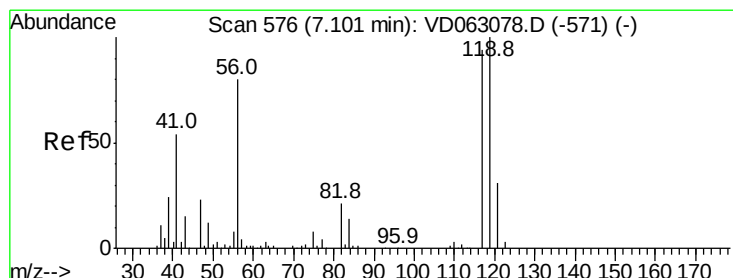
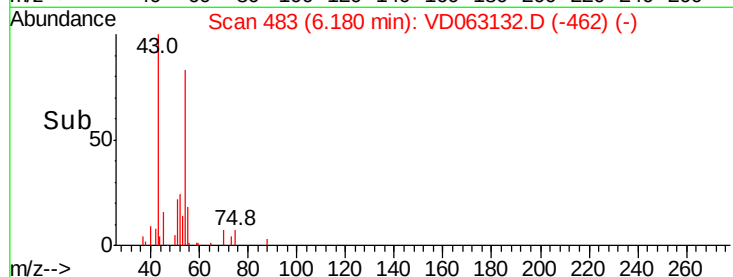
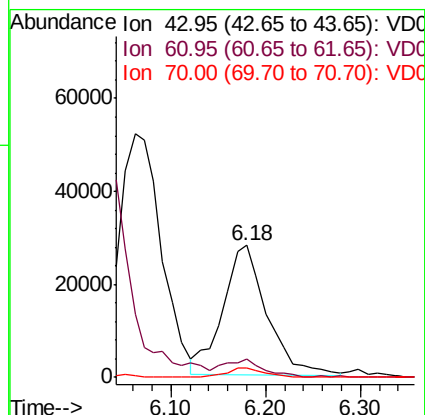
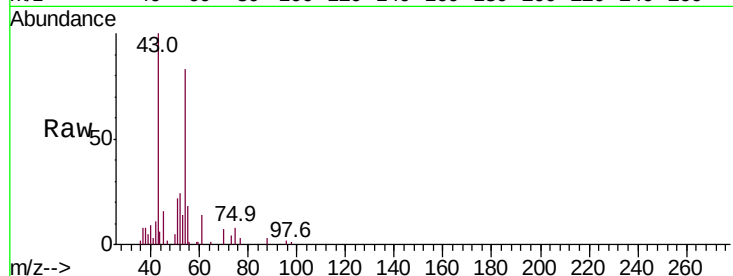




#37
Ethyl Acetate
Concen: 16.514 ug/l
RT: 6.18 min Scan# 483
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

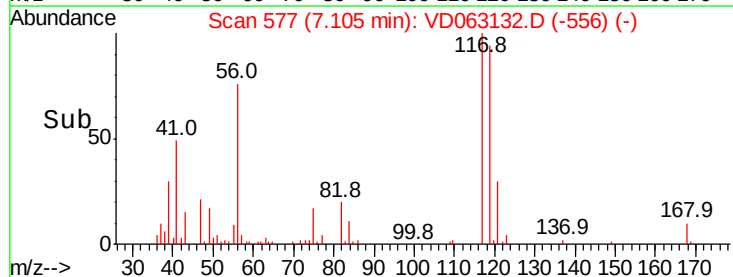
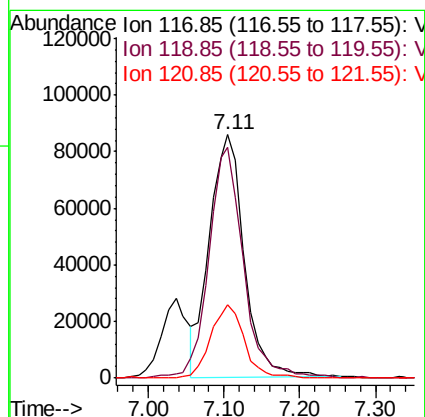
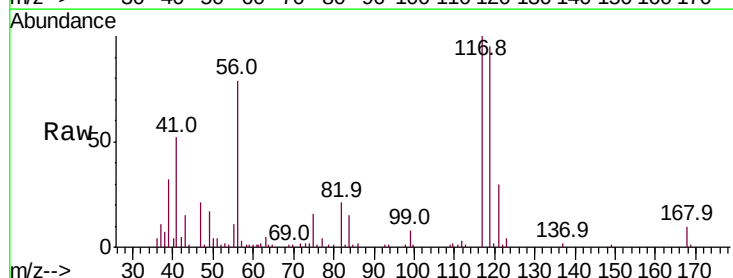
Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS02

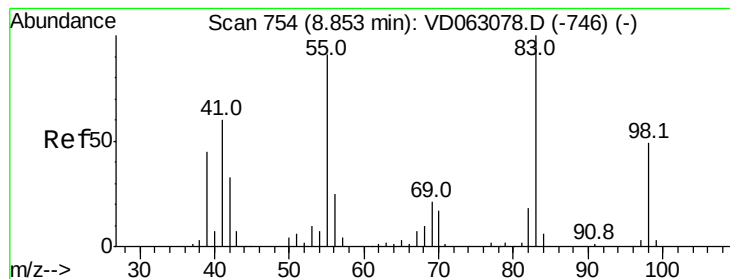
Tot Ion: 43 Resp: 89956
Ion Ratio Lower Upper
43 100
61 14.1 10.6 16.0
70 7.2 6.6 9.8



#38
Carbon Tetrachloride
Concen: 14.146 ug/l
RT: 7.11 min Scan# 577
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion: 117 Resp: 273595
Ion Ratio Lower Upper
117 100
119 94.9 80.0 120.0
121 30.1 25.0 37.4





#39

Methylvlcyclohexane

Concen: 12.833 ug/l

RT: 8.86 min Scan# 755

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

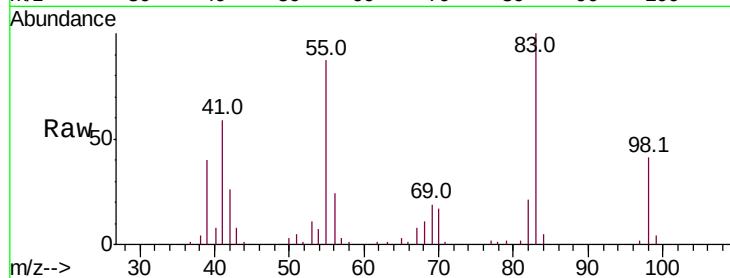
Tot Ion: 83 Resp: 141211

Ion Ratio Lower Upper

83 100

55 87.4 73.0 109.4

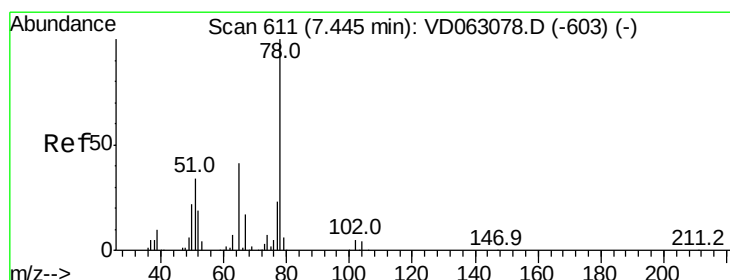
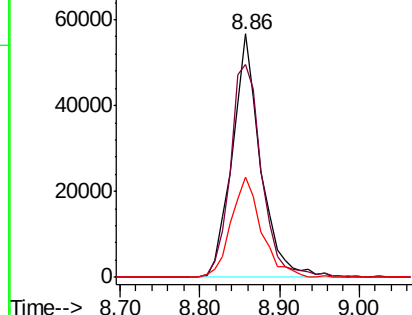
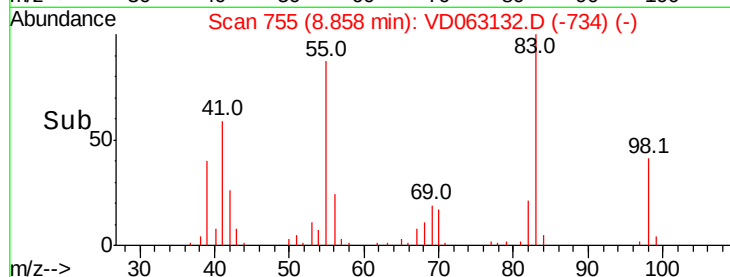
98 41.2 39.4 59.0



Abundance Ion 83.05 (82.75 to 83.75): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 98.05 (97.75 to 98.75): VDC



#40

Benzene

Concen: 15.244 ug/l

RT: 7.44 min Scan# 611

Delta R.T. -0.01 min

Lab File: VD063132.D

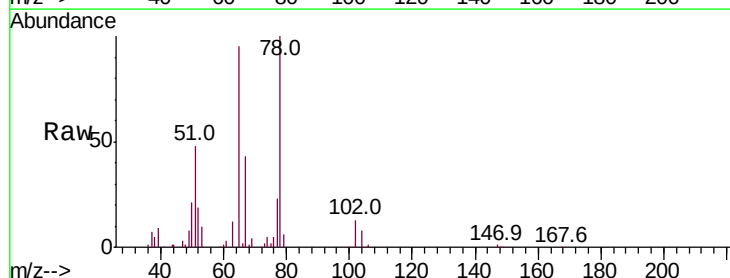
Acq: 17 Jul 2019 15:34

Tgt Ion: 78 Resp: 406392

Ion Ratio Lower Upper

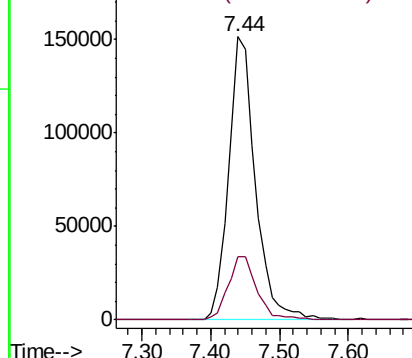
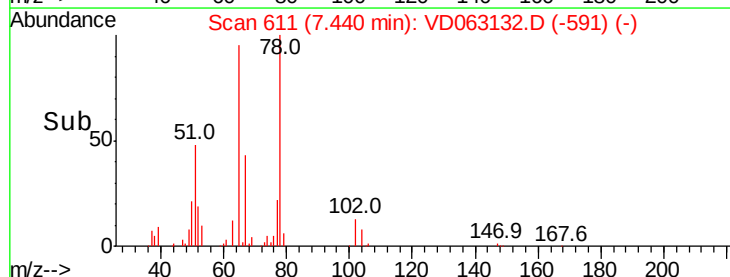
78 100

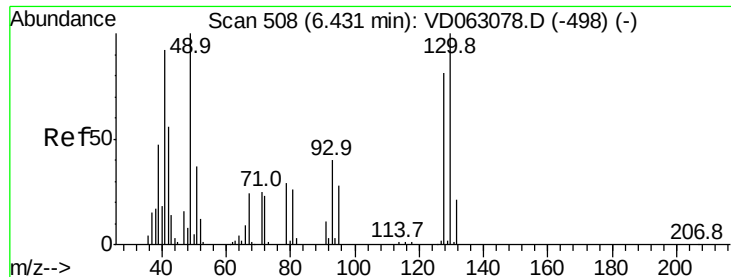
77 22.5 18.1 27.1



Abundance Ion 77.95 (77.65 to 78.65): VDC

Ion 76.95 (76.65 to 77.65): VDC

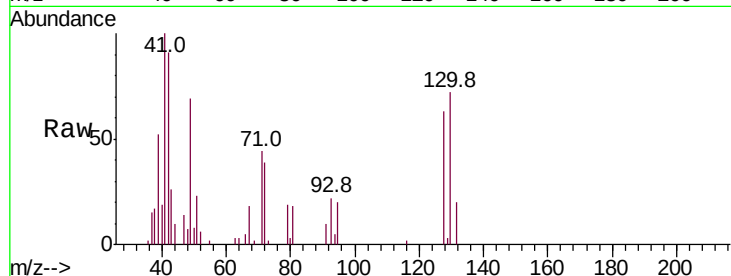




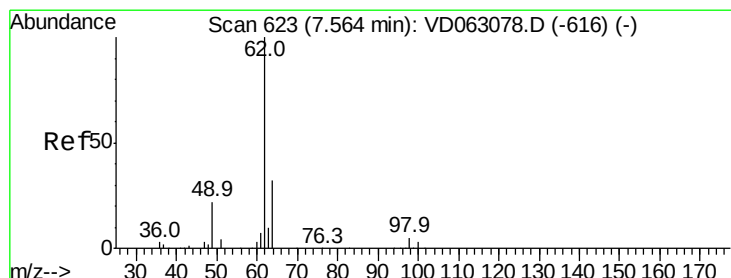
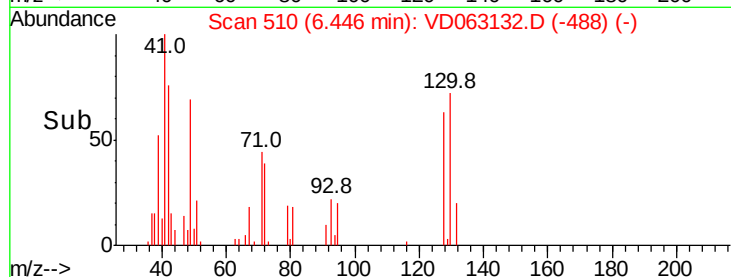
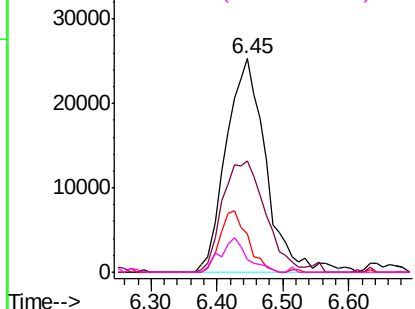
#41
Methacrylonitrile
Concen: 14.500 ug/l
RT: 6.45 min Scan# 510
Delta R.T. 0.01 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBSD02

Tot Ion: 41 Resp: 107085
Ion Ratio Lower Upper
41 100
39 52.1 41.0 61.6
67 17.7 21.3 31.9#
52 6.0 10.5 15.7#

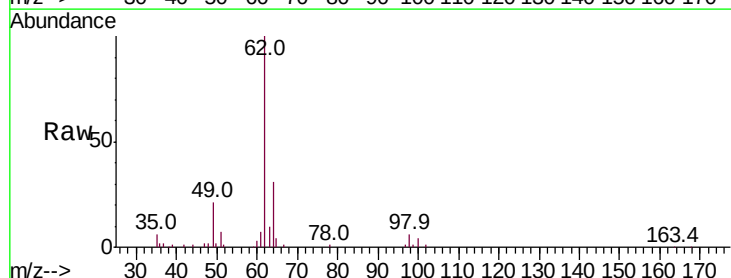


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

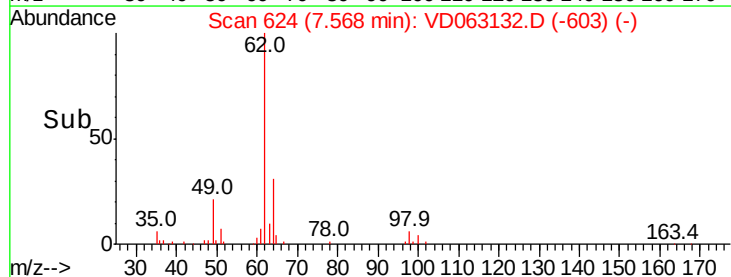
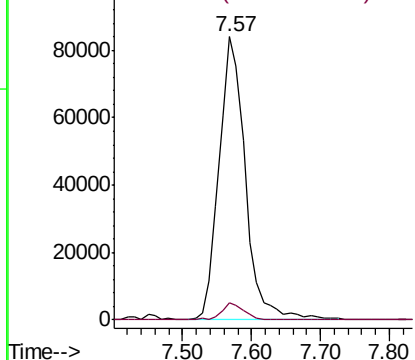


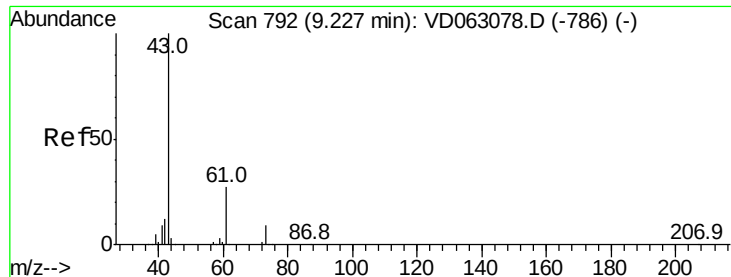
#42
1,2-Dichloroethane
Concen: 15.716 ug/l
RT: 7.57 min Scan# 624
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion: 62 Resp: 223209
Ion Ratio Lower Upper
62 100
98 5.9 0.0 9.6



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





#43

Isopropyl Acetate

Concen: 14.212 ug/l

RT: 9.23 min Scan# 793

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

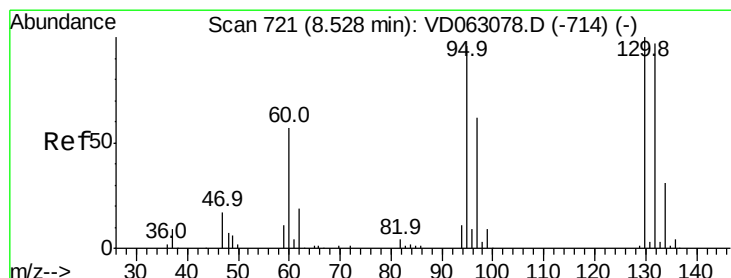
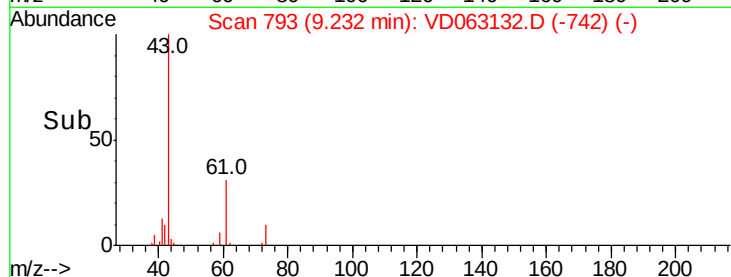
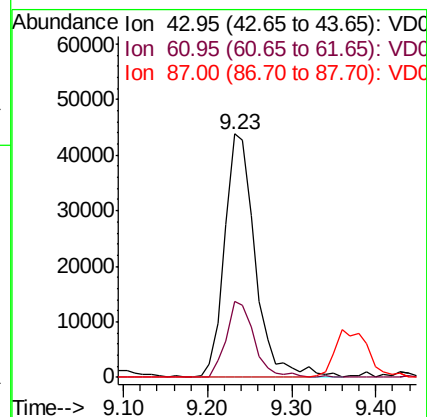
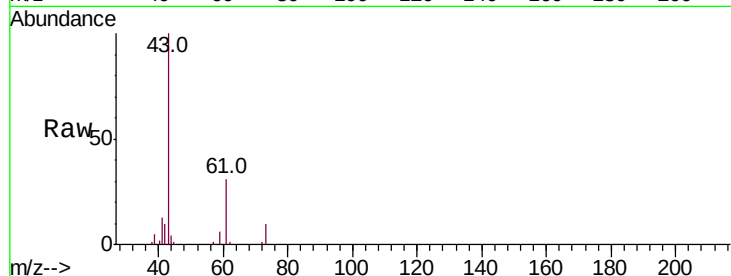
Tot Ion: 43 Resp: 110971

Ion Ratio Lower Upper

43 100

61 31.3 21.7 32.5

87 0.0 0.2 0.4#



#44

Trichloroethene

Concen: 15.260 ug/l

RT: 8.53 min Scan# 722

Delta R.T. 0.00 min

Lab File: VD063132.D

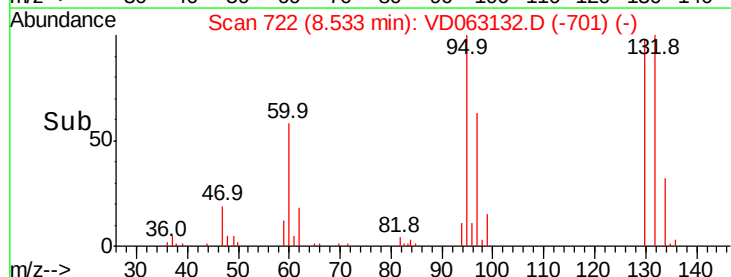
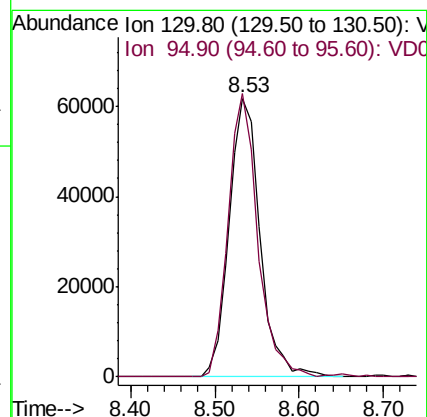
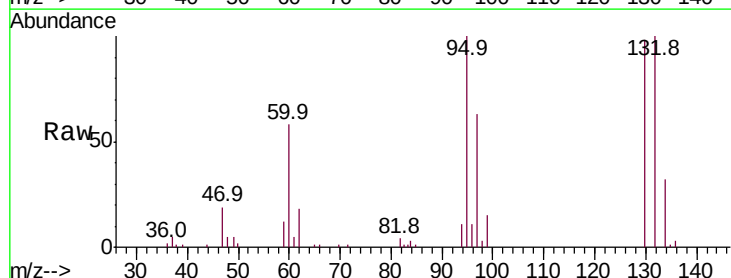
Acq: 17 Jul 2019 15:34

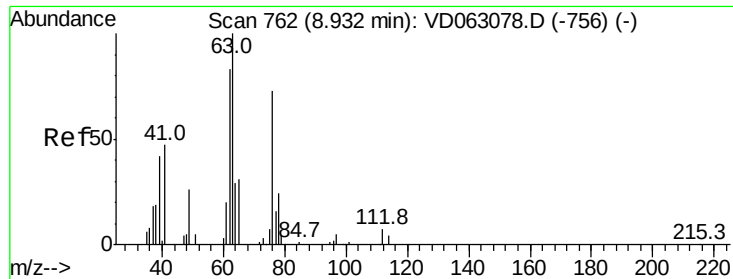
Tgt Ion:130 Resp: 157216

Ion Ratio Lower Upper

130 100

95 101.6 0.0 191.4





#45

1,2-Dichloropropane

Concen: 15.535 ug/l

RT: 8.94 min Scan# 763

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

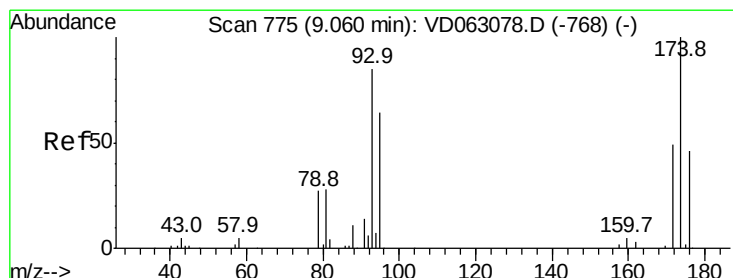
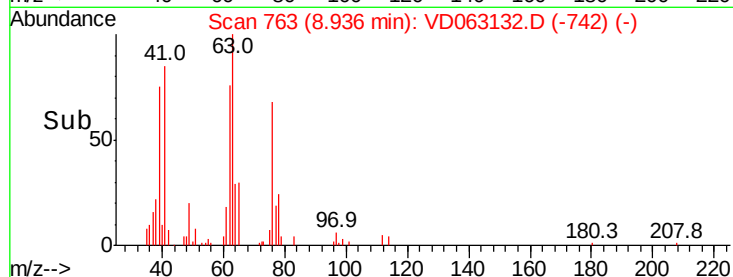
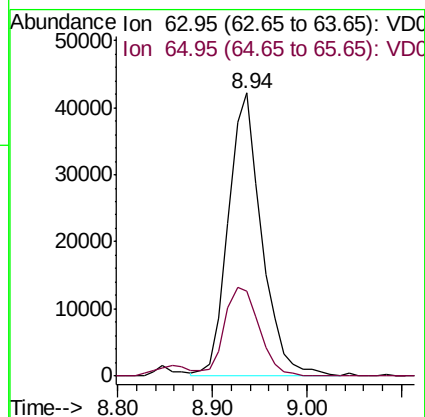
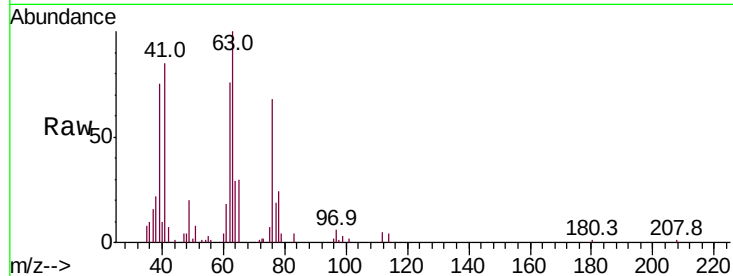
VD0717SBS02

Tot Ion: 63 Resp: 103252

Ion Ratio Lower Upper

63 100

65 29.9 26.3 39.5



#46

Dibromomethane

Concen: 15.198 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

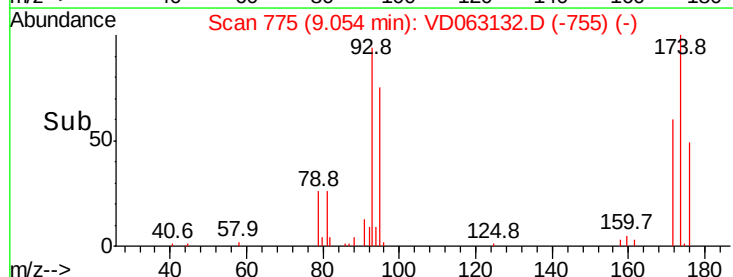
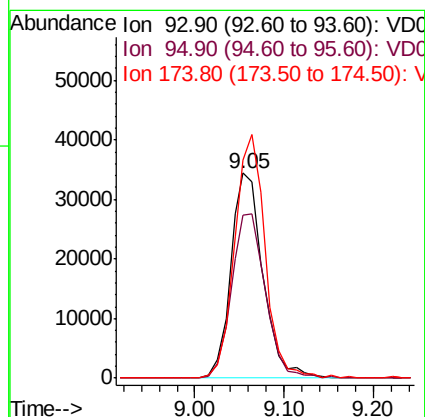
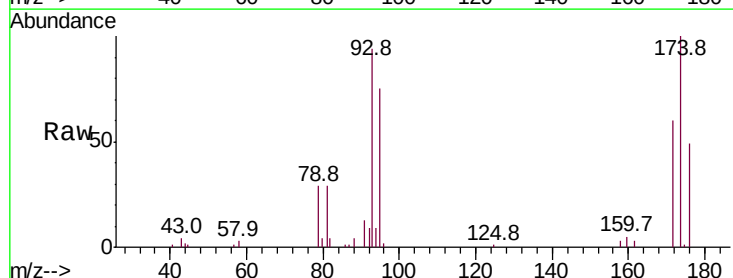
Tgt Ion: 93 Resp: 86803

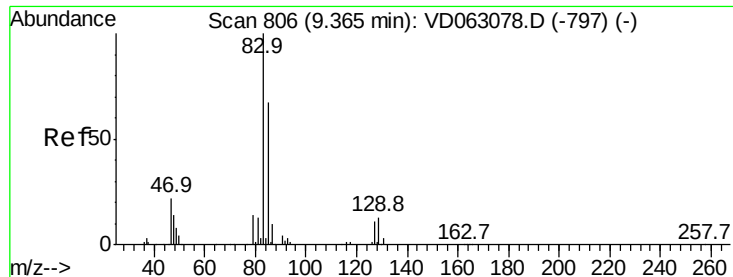
Ion Ratio Lower Upper

93 100

95 79.5 59.7 89.5

174 106.4 93.9 140.9





#47

Bromodichloromethane

Concen: 14.902 ug/l

RT: 9.37 min Scan# 807

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

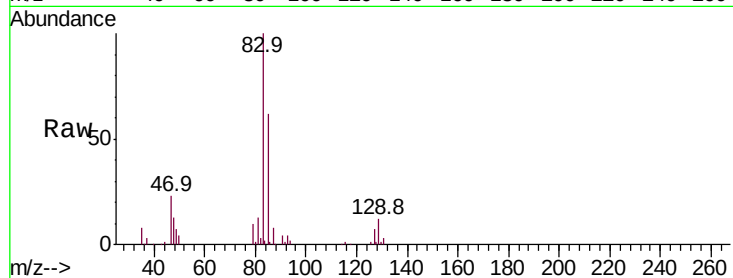
Tot Ion: 83 Resp: 222102

Ion Ratio Lower Upper

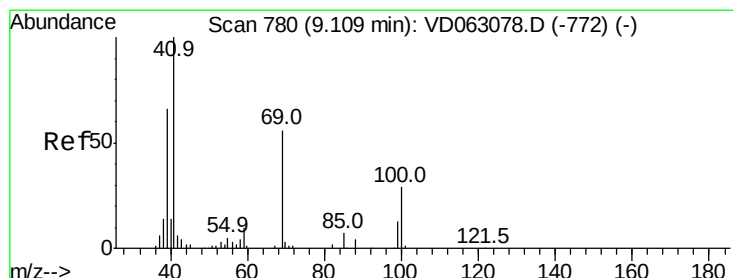
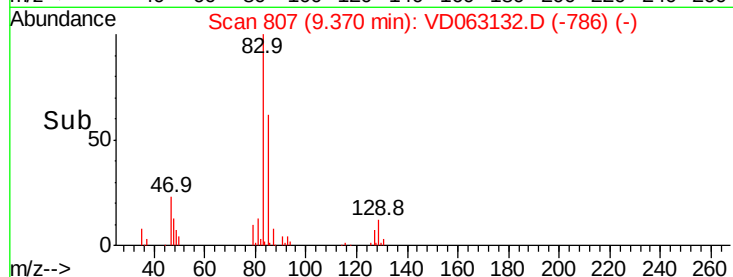
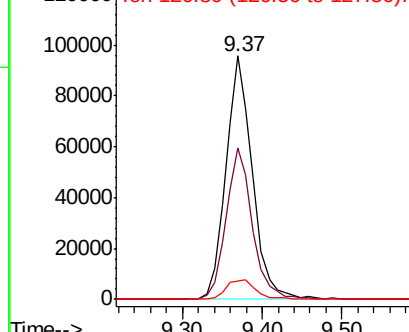
83 100

85 62.1 53.7 80.5

127 7.3 9.0 13.6#



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



#48

Methyl methacrylate

Concen: 15.610 ug/l

RT: 9.11 min Scan# 781

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

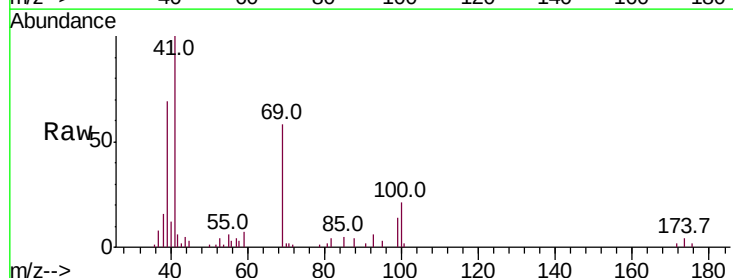
Tgt Ion: 41 Resp: 80042

Ion Ratio Lower Upper

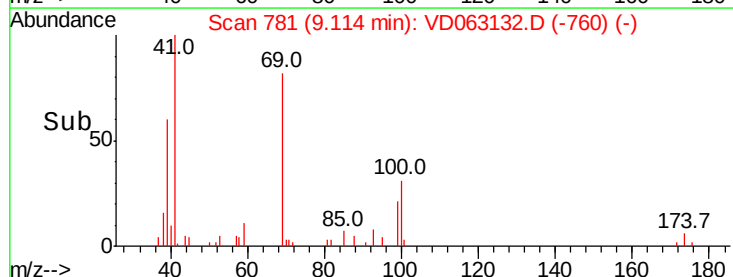
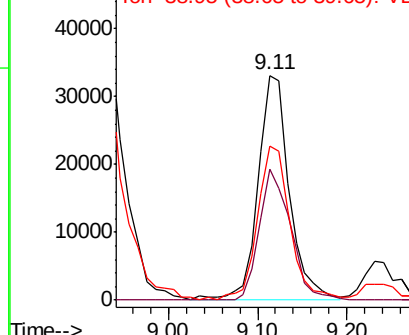
41 100

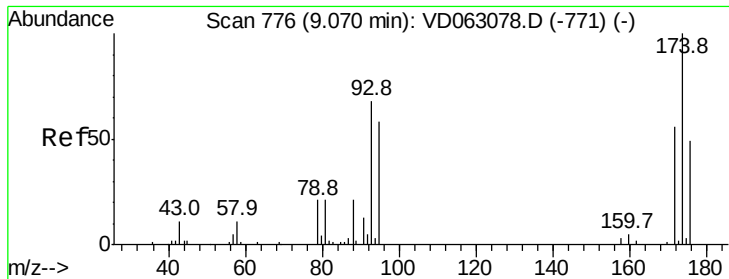
69 58.5 44.3 66.5

39 68.5 52.6 78.8



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

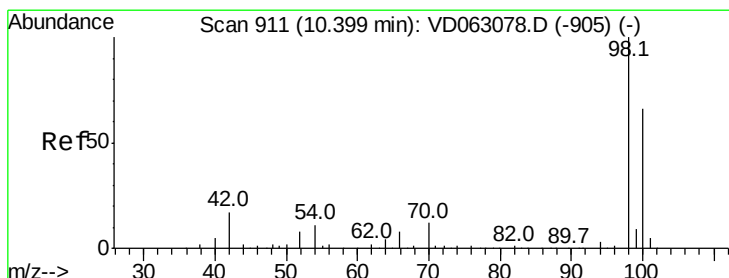
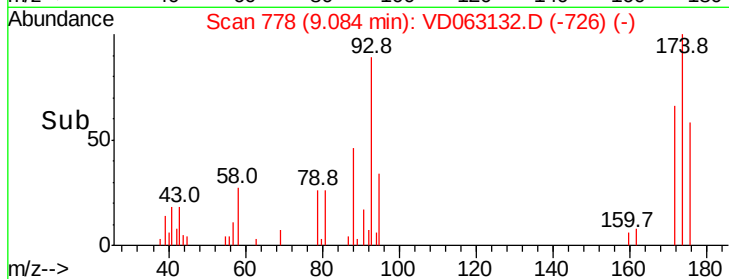
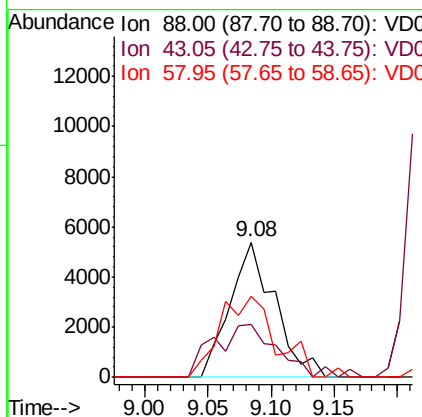
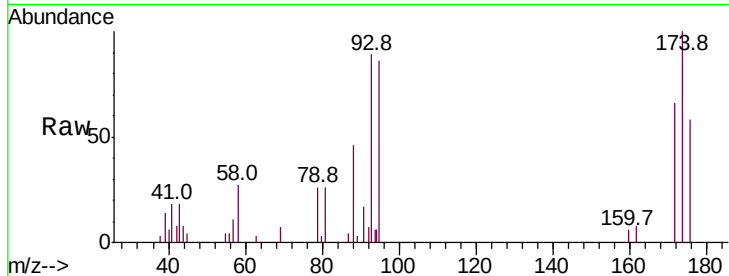




#49
1,4-Dioxane
Concen: 299.090 ug/l
RT: 9.08 min Scan# 778
Delta R.T. 0.01 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

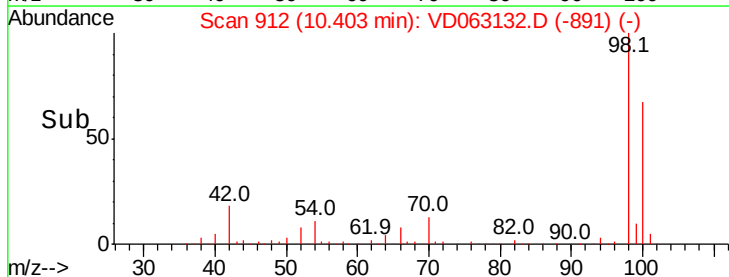
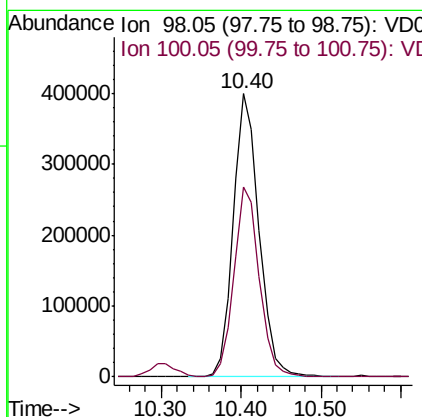
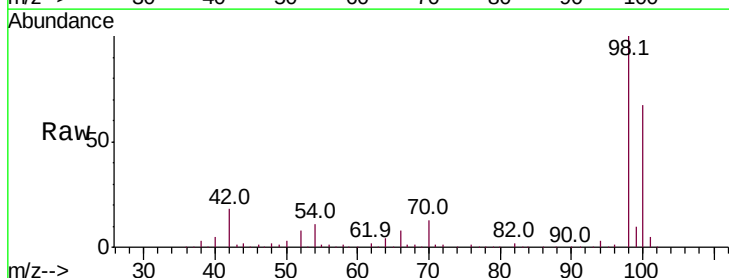
Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS02

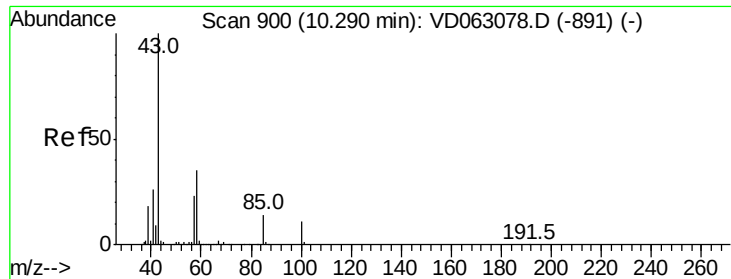
Tot Ion: 88 Resp: 13226
Ion Ratio Lower Upper
88 100
43 39.2 40.2 60.4#
58 60.4 41.6 62.4



#50
Toluene-d8
Concen: 37.159 ug/l
RT: 10.40 min Scan# 912
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion: 98 Resp: 899737
Ion Ratio Lower Upper
98 100
100 67.1 53.5 80.3





#51

4-Methyl-2-Pentanone

Concen: 77.146 ug/l

RT: 10.30 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

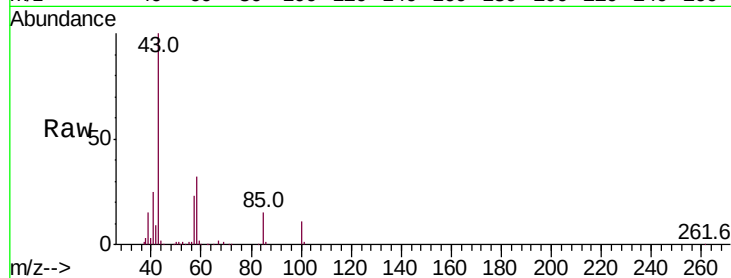
VD0717SBS02

Tot Ion: 43 Resp: 399516

Ion Ratio Lower Upper

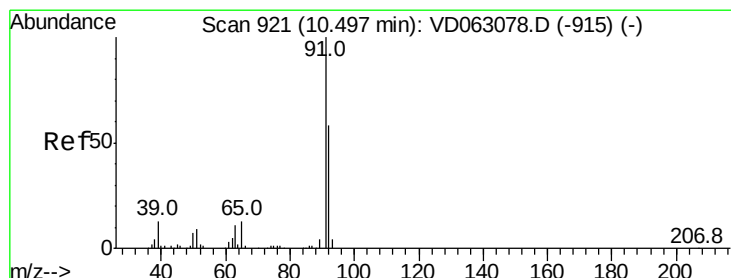
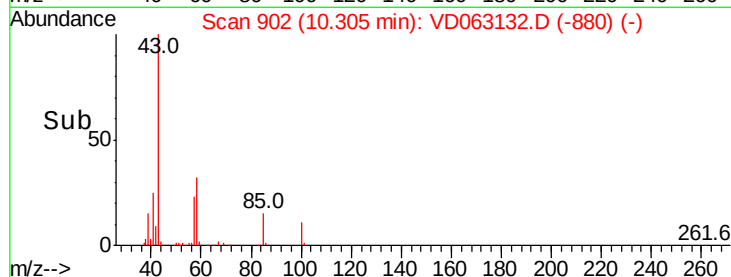
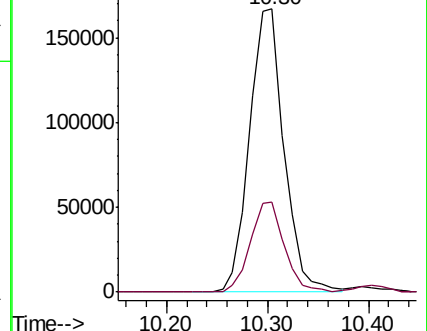
43 100

58 31.8 27.8 41.6



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#52

Toluene

Concen: 14.798 ug/l

RT: 10.50 min Scan# 922

Delta R.T. 0.00 min

Lab File: VD063132.D

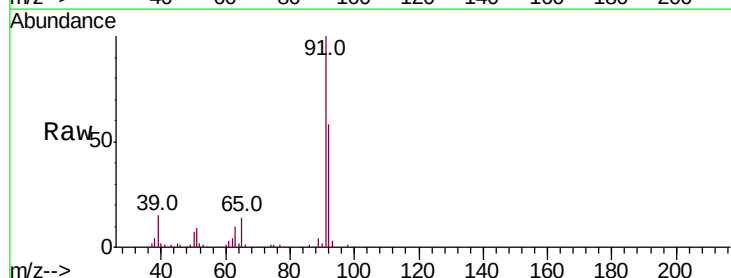
Acq: 17 Jul 2019 15:34

Tgt Ion: 92 Resp: 263426

Ion Ratio Lower Upper

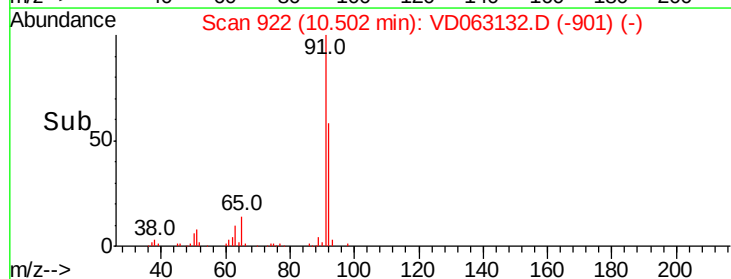
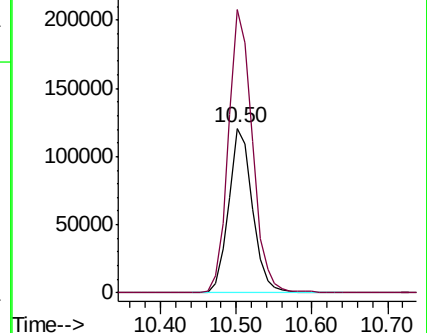
92 100

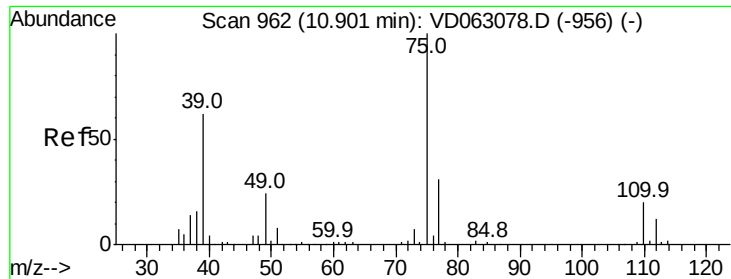
91 172.1 137.9 206.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 15.977 ug/l

RT: 10.91 min Scan# 963

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

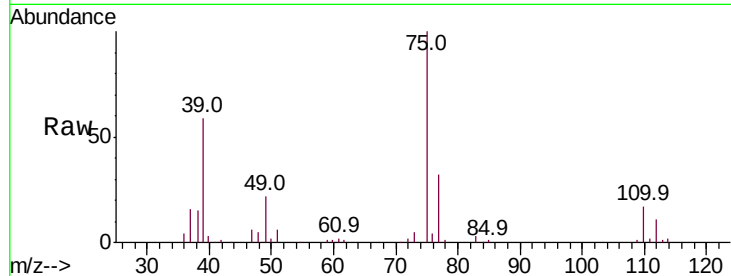
VD0717SBS02

Tot Ion: 75 Resp: 204016

Ion Ratio Lower Upper

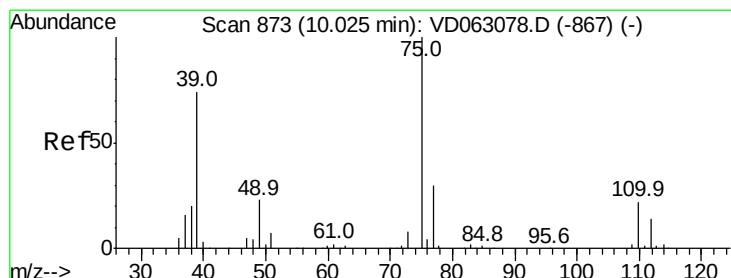
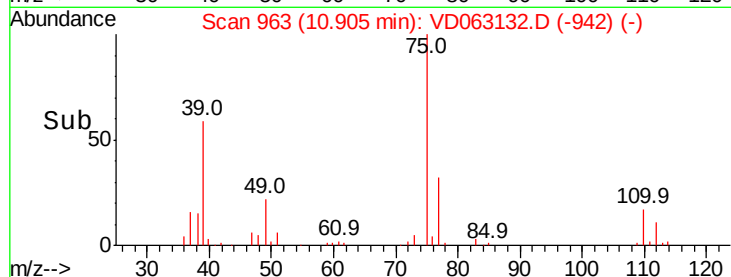
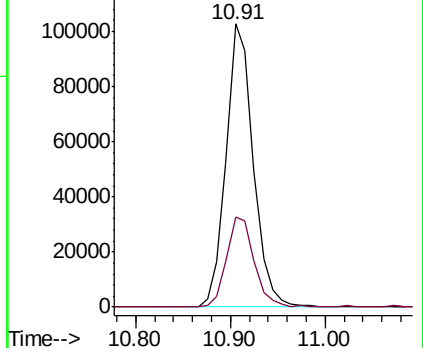
75 100

77 32.0 24.9 37.3



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



#54

cis-1,3-Dichloropropene

Concen: 14.628 ug/l

RT: 10.04 min Scan# 875

Delta R.T. 0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

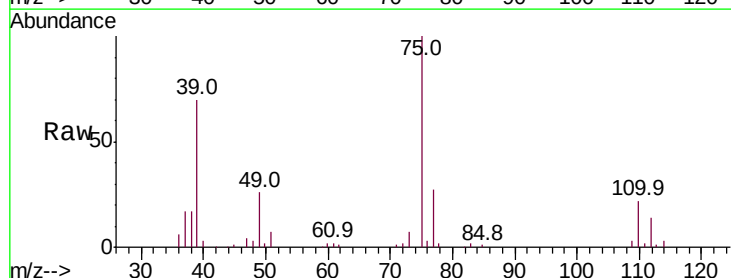
Tgt Ion: 75 Resp: 193136

Ion Ratio Lower Upper

75 100

77 27.2 23.9 35.9

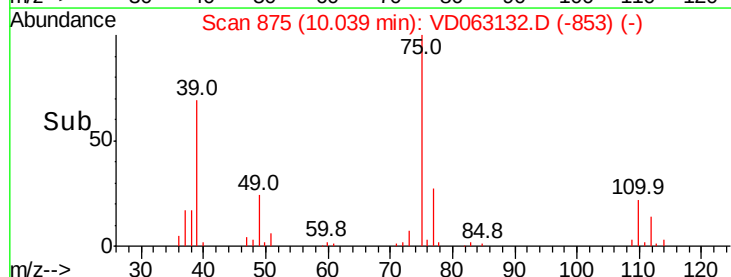
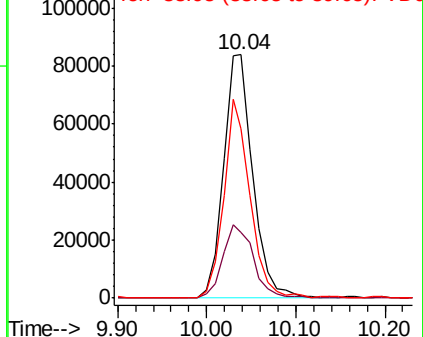
39 69.7 59.4 89.0

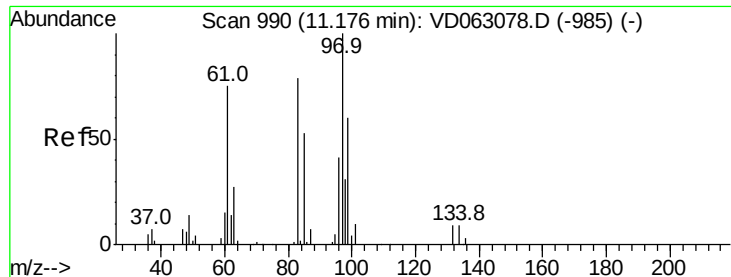


Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

Ion 38.95 (38.65 to 39.65): VDC

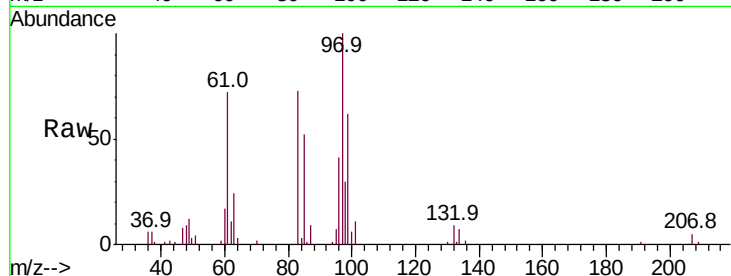




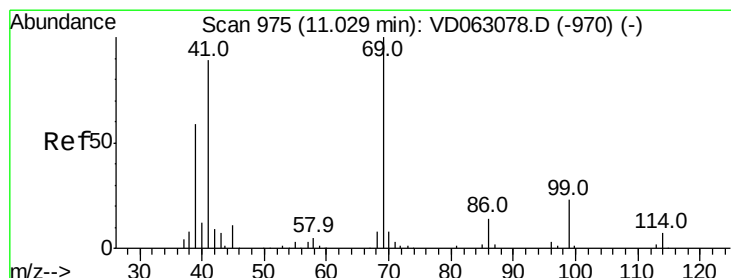
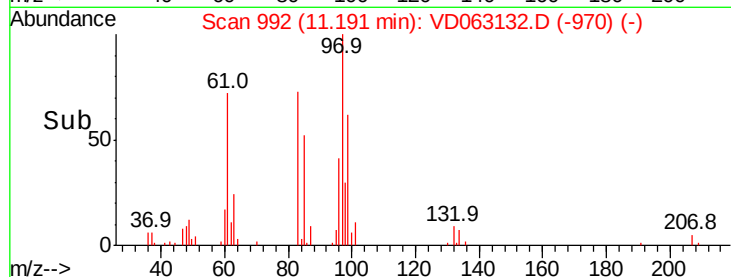
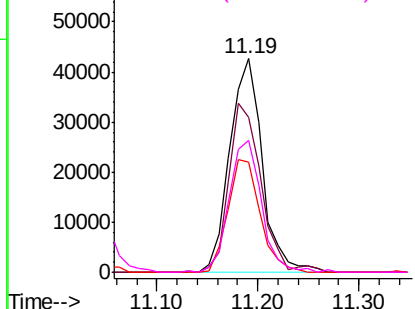
#55
 1,1,2-Trichloroethane
 Concen: 15.536 ug/l
 RT: 11.19 min Scan# 992
 Delta R.T. 0.01 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBS02

Tot Ion:	97	Resp:	95579
Ion	Ratio	Lower	Upper
97	100		
83	72.8	63.2	94.8
85	51.7	42.0	63.0
99	61.5	48.3	72.5

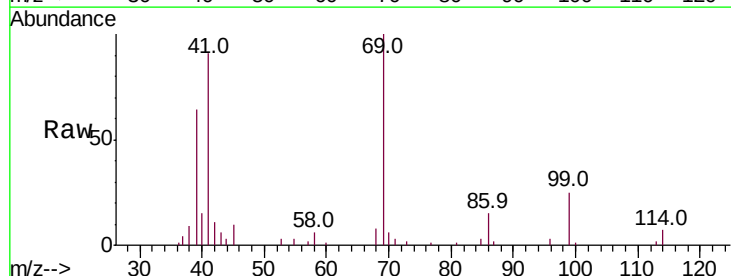


Abundance Ion 96.85 (96.55 to 97.55): VDC
 Ion 82.95 (82.65 to 83.65): VDC
 Ion 84.95 (84.65 to 85.65): VDC
 Ion 98.85 (98.55 to 99.55): VDC

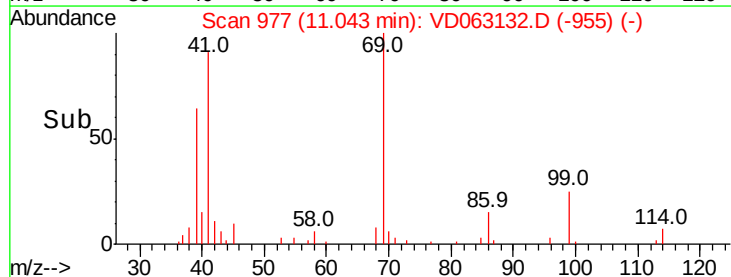
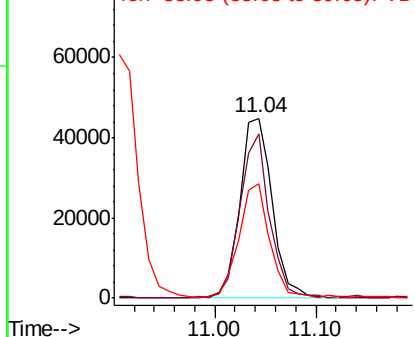


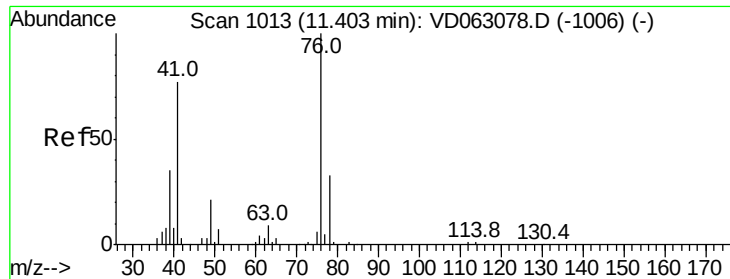
#56
 Ethyl methacrylate
 Concen: 14.531 ug/l
 RT: 11.04 min Scan# 977
 Delta R.T. 0.01 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Tgt Ion:	69	Resp:	99878
Ion	Ratio	Lower	Upper
69	100		
41	91.5	71.0	106.4
39	63.7	47.7	71.5



Abundance Ion 69.00 (68.70 to 69.70): VDC
 Ion 41.05 (40.75 to 41.75): VDC
 Ion 38.95 (38.65 to 39.65): VDC





#57

1,3-Dichloropropane

Concen: 15.227 ug/l

RT: 11.41 min Scan# 1014

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

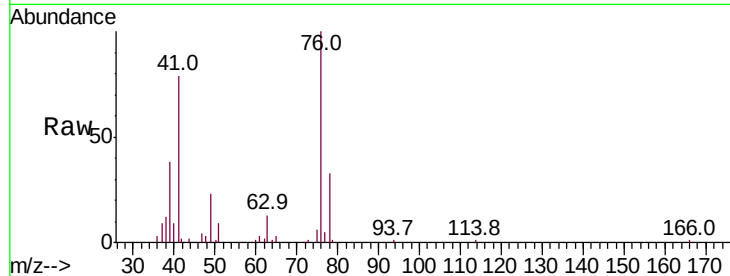
VD0717SBS02

Tot Ion: 76 Resp: 142543

Ion Ratio Lower Upper

76 100

78 33.2 26.8 40.2



Abundance Ion 75.95 (75.65 to 76.65): VDC

Ion 77.95 (77.65 to 78.65): VDC

11.41

80000

60000

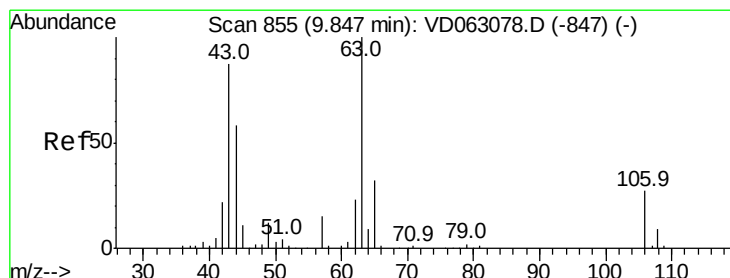
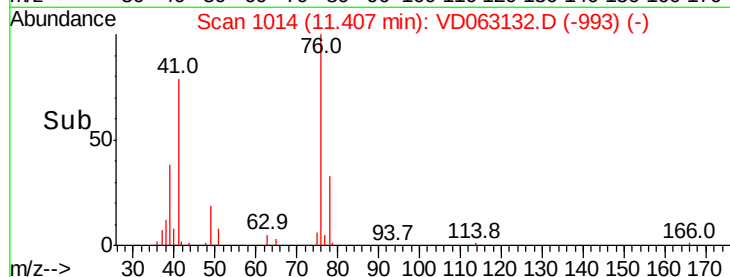
40000

20000

0

Time-->

11.30 11.40 11.50



#58

2-Chloroethyl Vinyl ether

Concen: 61.562 ug/l

RT: 9.85 min Scan# 856

Delta R.T. 0.00 min

Lab File: VD063132.D

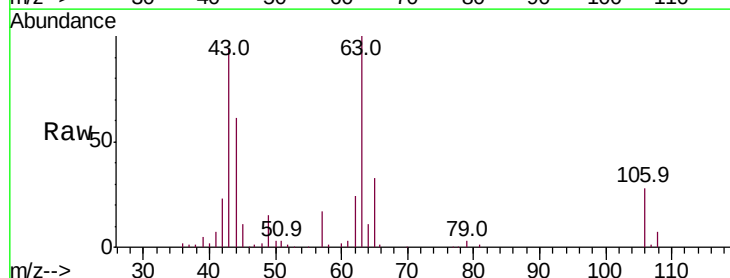
Acq: 17 Jul 2019 15:34

Tgt Ion: 63 Resp: 235614

Ion Ratio Lower Upper

63 100

106 27.8 21.3 31.9



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): V

9.85

120000

100000

80000

60000

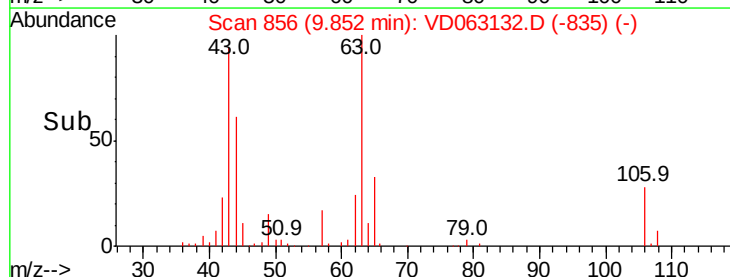
40000

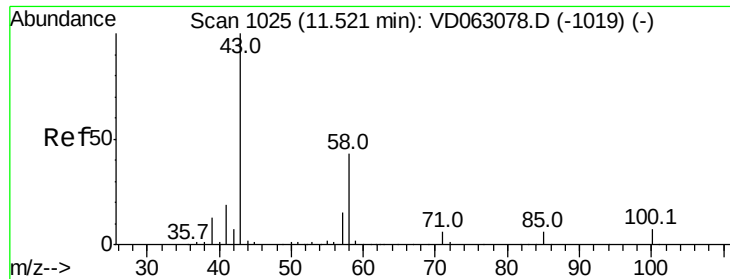
20000

0

Time-->

9.70 9.80 9.90 10.00

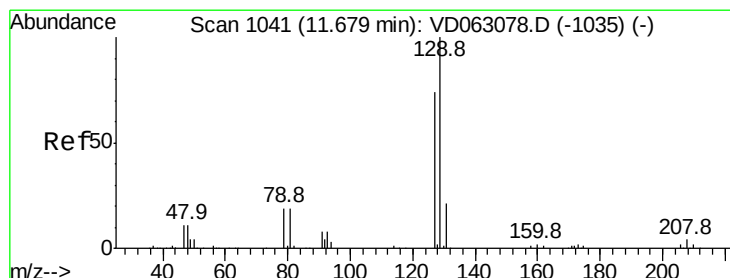
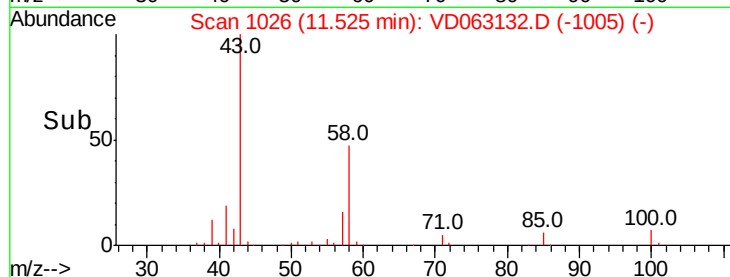
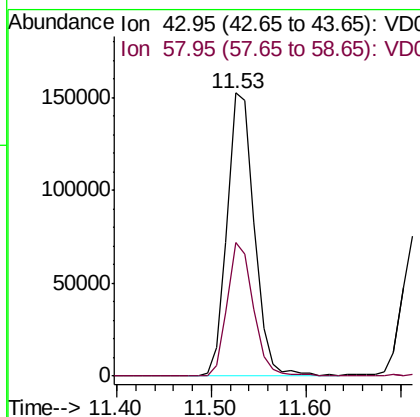
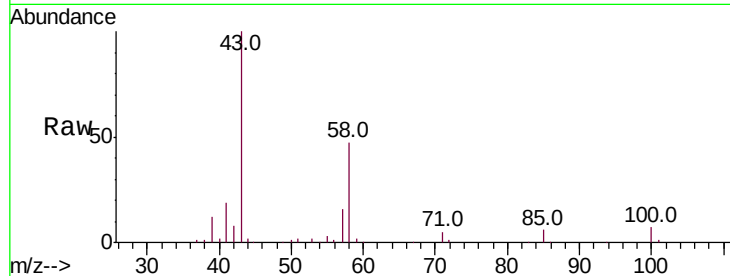




#59
2-Hexanone
Concen: 76.260 ug/l
RT: 11.53 min Scan# 1026
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

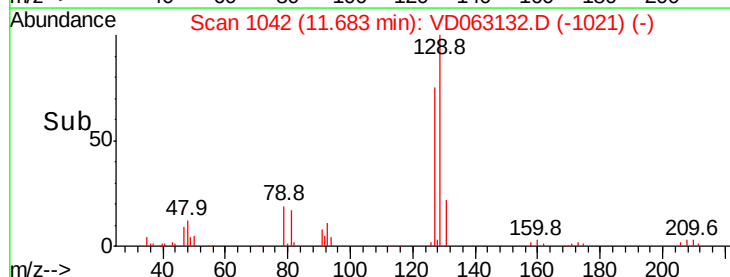
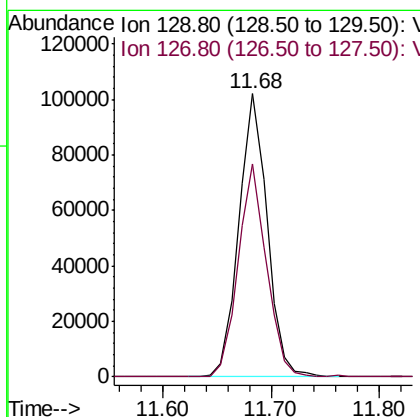
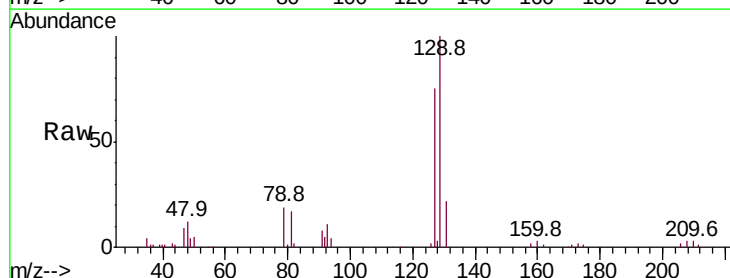
Instrument :
MSVOA_D
ClientSampleId :
VD0717SBSD02

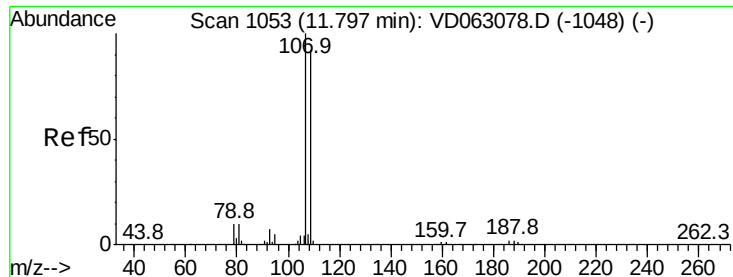
Tot Ion: 43 Resp: 304572
Ion Ratio Lower Upper
43 100
58 47.1 21.7 65.1



#60
Dibromochloromethane
Concen: 15.723 ug/l
RT: 11.68 min Scan# 1042
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion: 129 Resp: 185418
Ion Ratio Lower Upper
129 100
127 75.2 37.0 110.9





#61

1,2-Dibromoethane

Concen: 16.381 ug/l

RT: 11.80 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

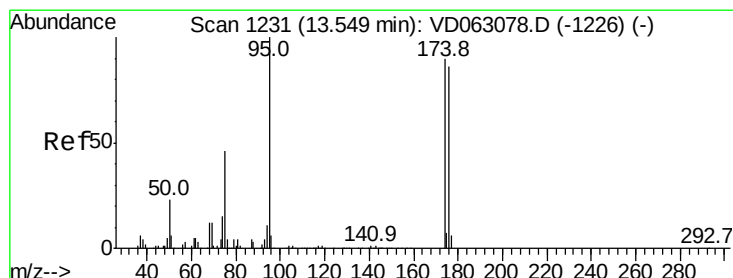
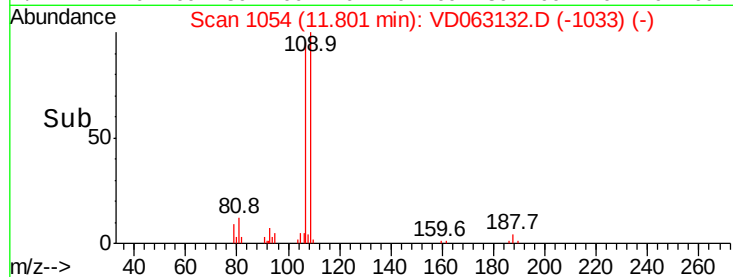
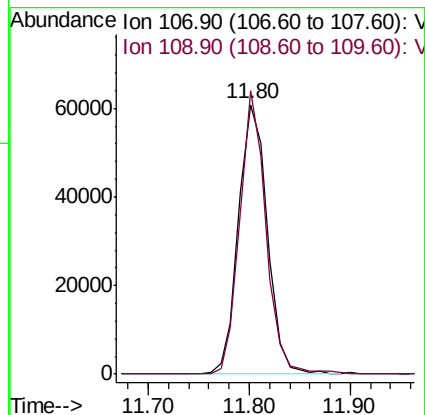
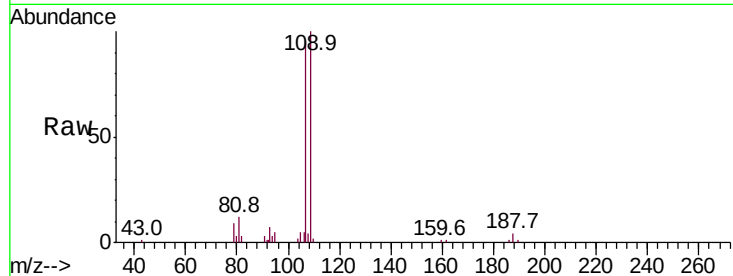
VD0717SBS02

Tot Ion:107 Resp: 120629

Ion Ratio Lower Upper

107 100

109 105.1 73.6 110.4



#62

4-Bromofluorobenzene

Concen: 38.465 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

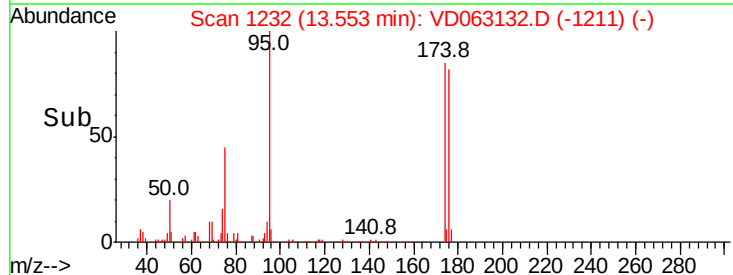
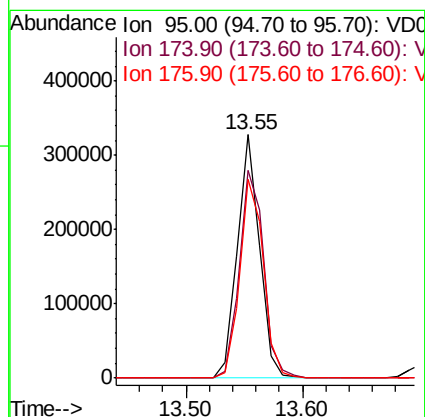
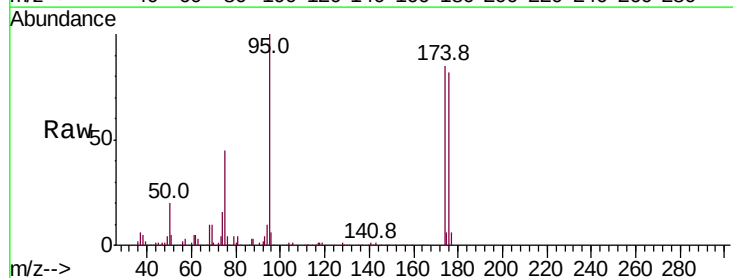
Tgt Ion: 95 Resp: 430876

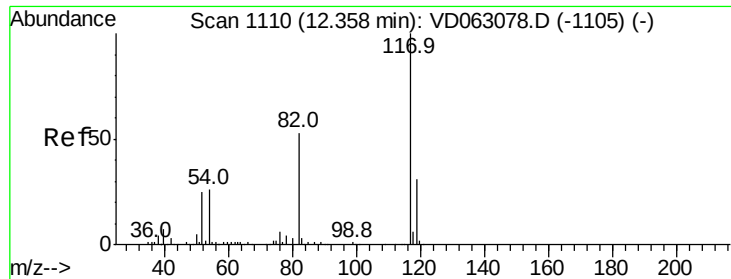
Ion Ratio Lower Upper

95 100

174 85.3 0.0 180.6

176 81.6 0.0 172.2

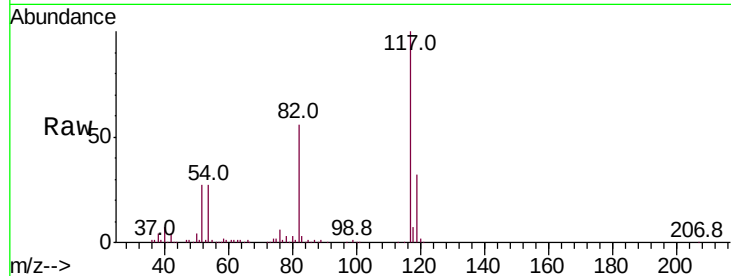




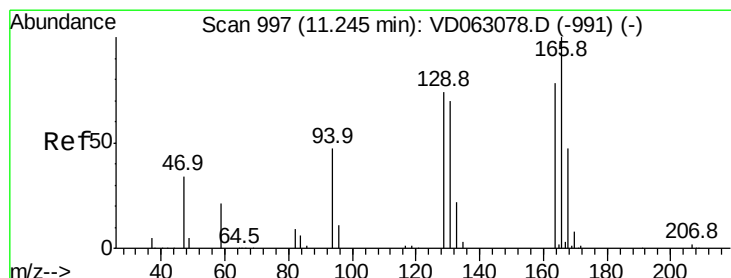
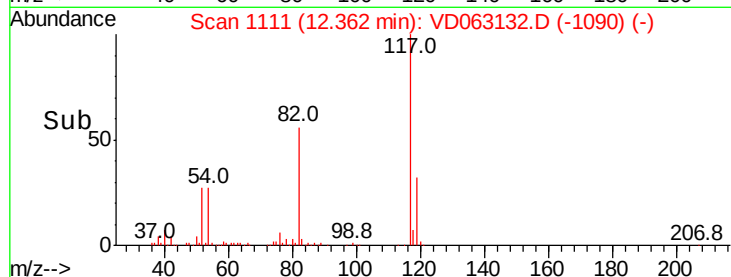
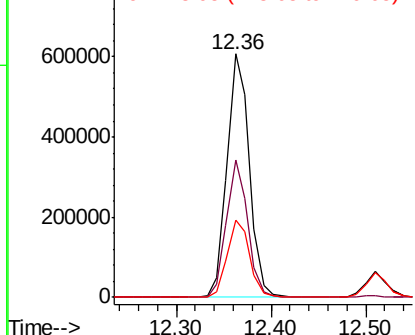
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.36 min Scan# 1111
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBSD02

Tot Ion:117 Resp: 989921
Ion Ratio Lower Upper
117 100
82 56.4 42.3 63.5
119 31.8 25.2 37.8



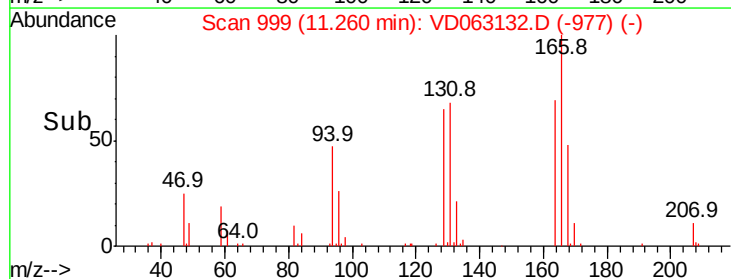
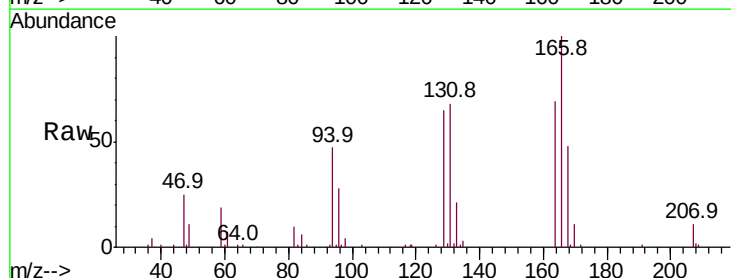
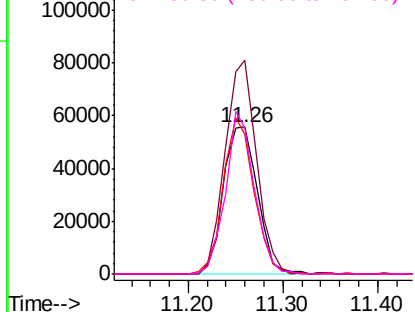
Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

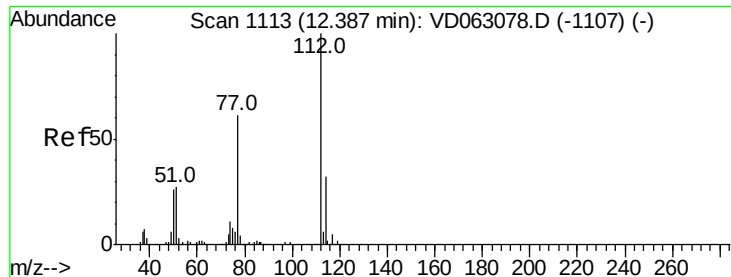


#64
Tetrachloroethene
Concen: 14.392 ug/l
RT: 11.26 min Scan# 999
Delta R.T. 0.01 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion:164 Resp: 138241
Ion Ratio Lower Upper
164 100
166 145.5 102.8 154.2
129 95.3 76.4 114.6
131 99.4 71.7 107.5

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

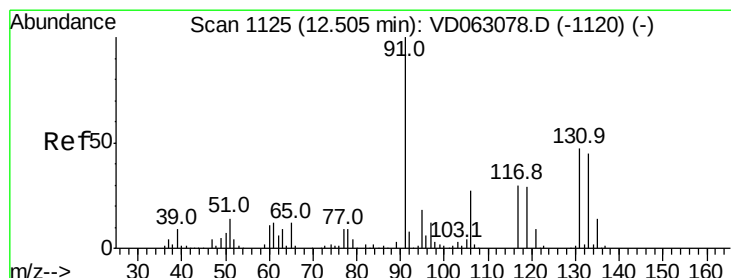
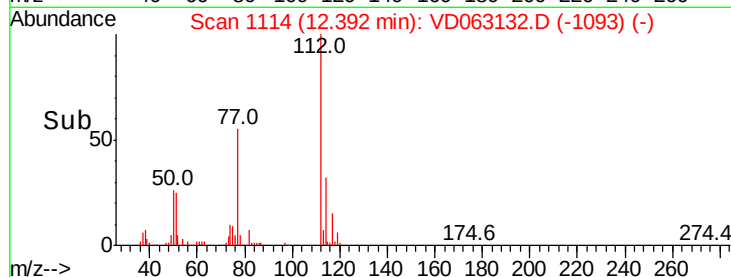
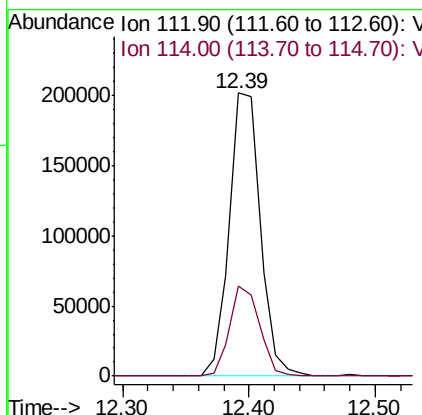
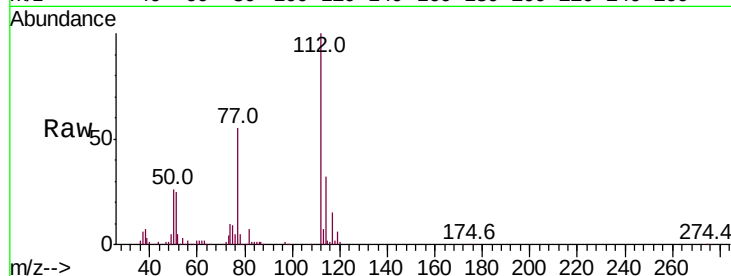




#65
Chlorobenzene
Concen: 14.751 ug/l
RT: 12.39 min Scan# 1114
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

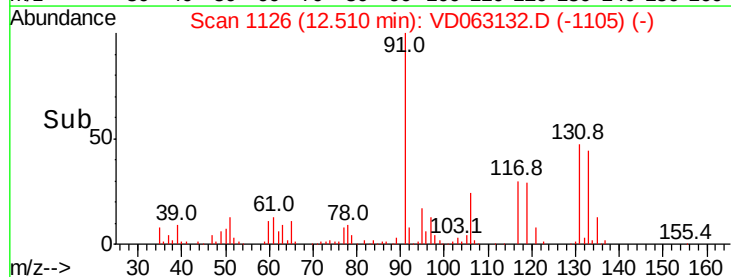
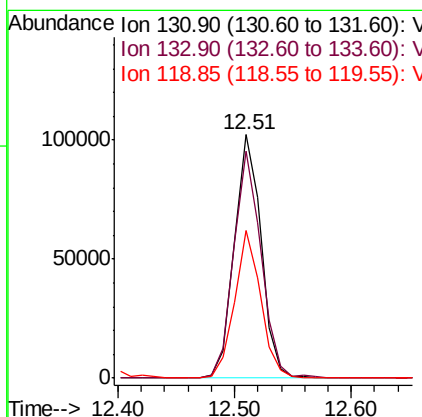
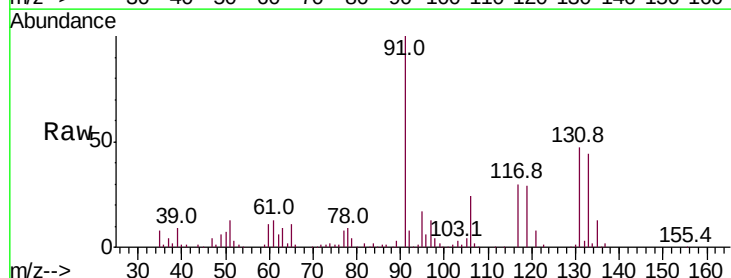
Instrument :
MSVOA_D
ClientSampleId :
VD0717SBSD02

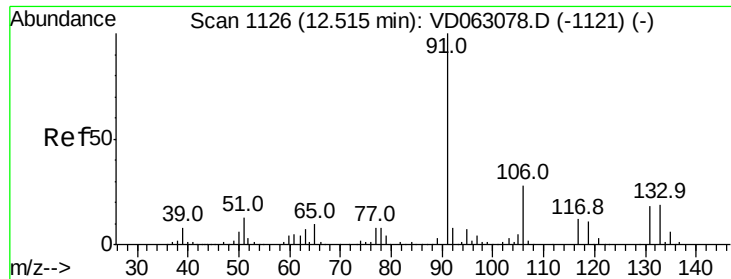
Tot Ion:112 Resp: 343256
Ion Ratio Lower Upper
112 100
114 31.7 25.9 38.9



#66
1,1,1,2-Tetrachloroethane
Concen: 15.077 ug/l
RT: 12.51 min Scan# 1126
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion:131 Resp: 162660
Ion Ratio Lower Upper
131 100
133 93.2 48.5 145.6
119 60.9 30.8 92.3

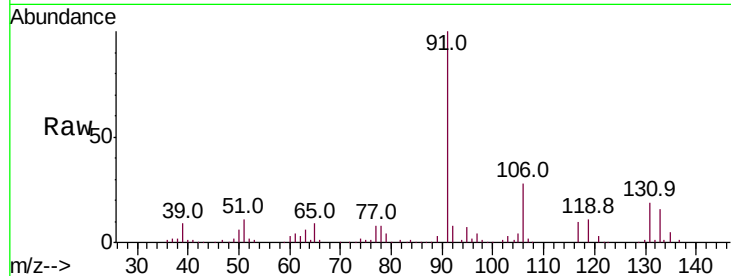




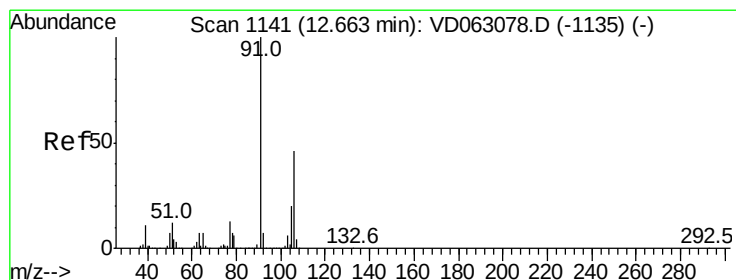
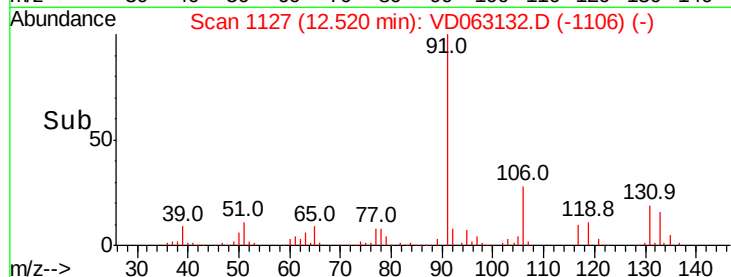
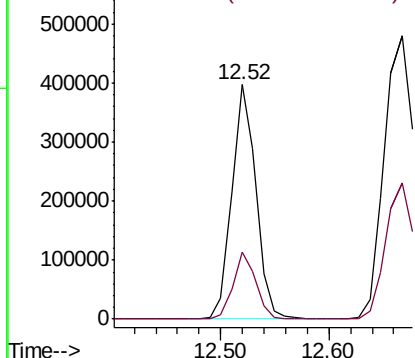
#67
Ethyl Benzene
Concen: 15.199 ug/l
RT: 12.52 min Scan# 1127
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS02

Tot Ion: 91 Resp: 614546
Ion Ratio Lower Upper
91 100
106 28.5 22.5 33.7

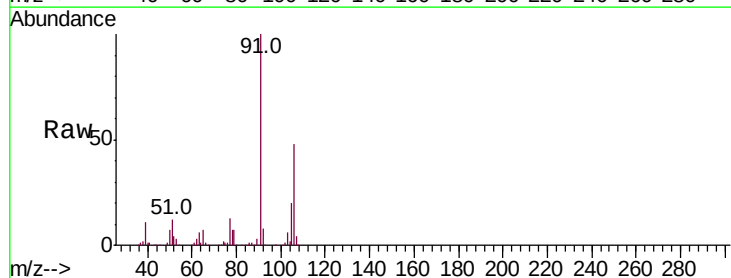


Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 106.05 (105.75 to 106.75): V

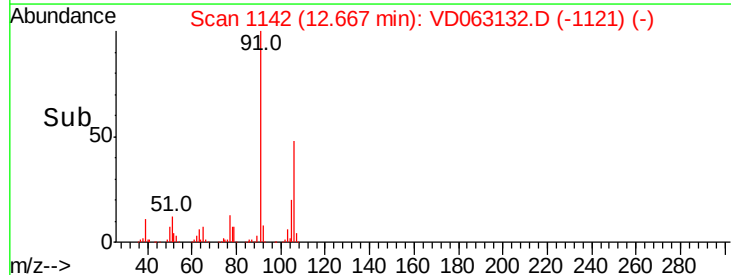
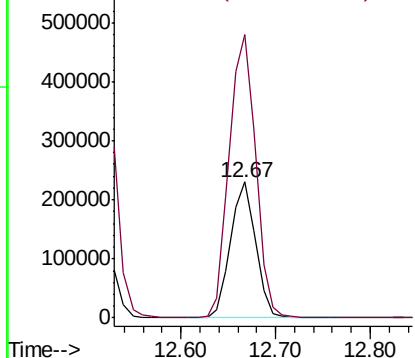


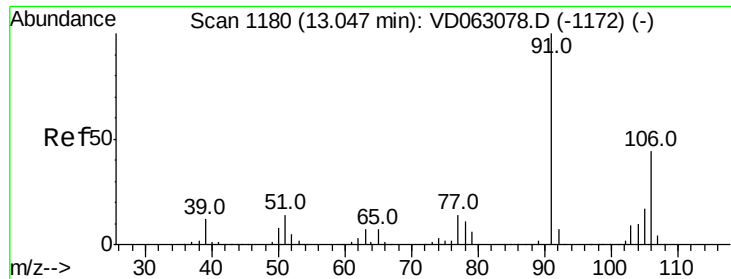
#68
m/p-Xylenes
Concen: 29.357 ug/l
RT: 12.67 min Scan# 1142
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion: 106 Resp: 425140
Ion Ratio Lower Upper
106 100
91 208.1 173.0 259.6



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

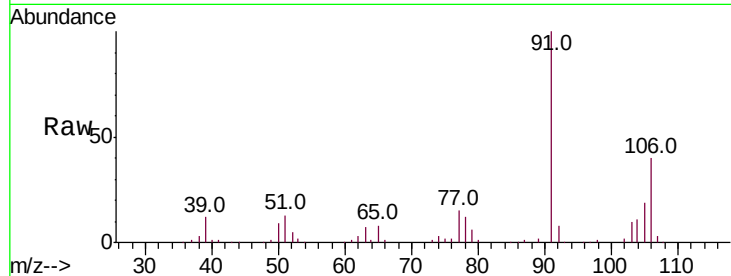




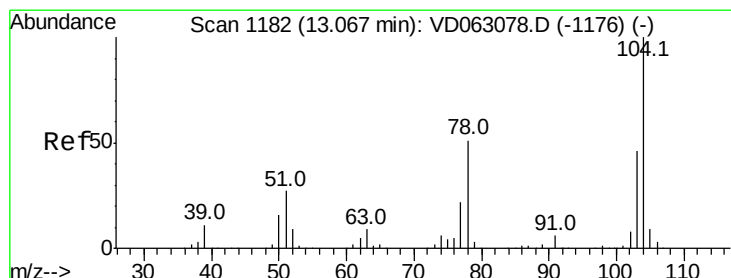
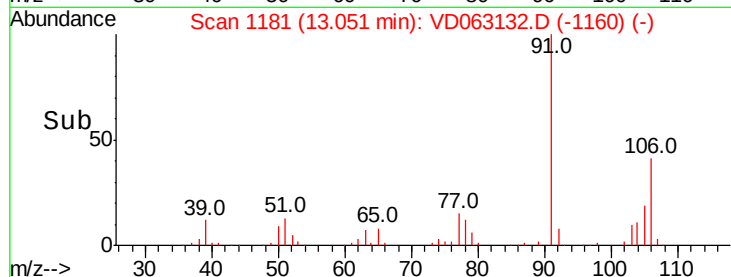
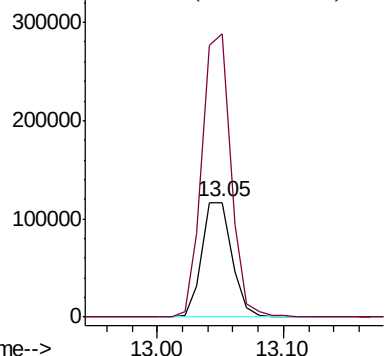
#69
o-Xylene
Concen: 13.951 ug/l
RT: 13.05 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS02

Tot Ion:106 Resp: 191577
Ion Ratio Lower Upper
106 100
91 247.3 114.9 344.7

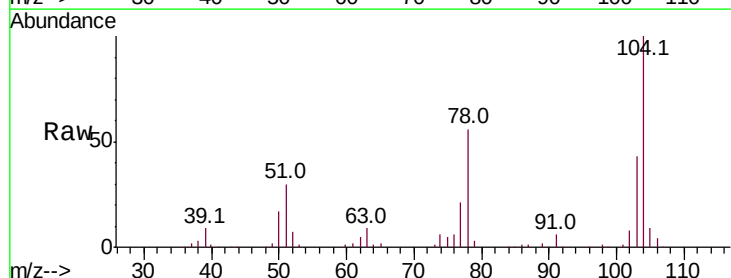


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

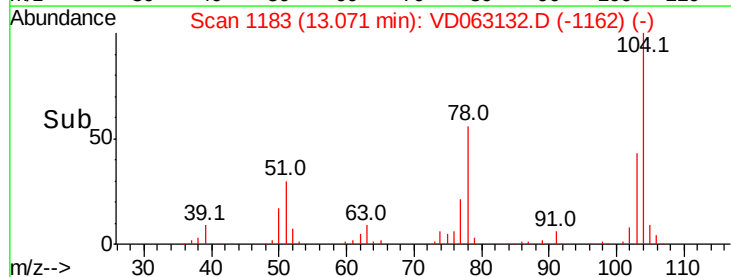
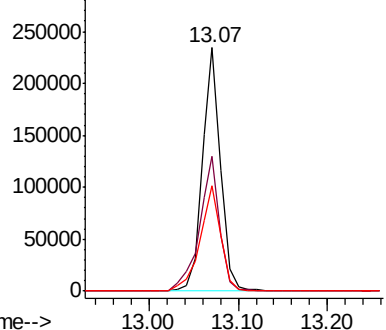


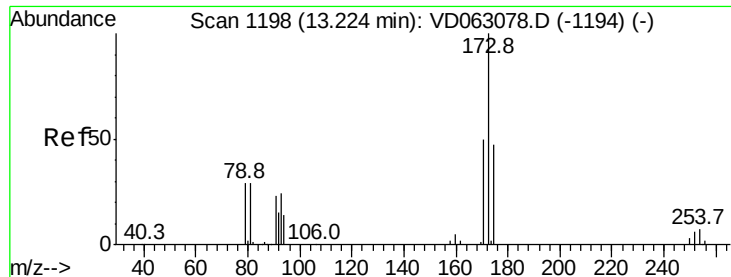
#70
Styrene
Concen: 13.965 ug/l
RT: 13.07 min Scan# 1183
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion:104 Resp: 335673
Ion Ratio Lower Upper
104 100
78 55.6 41.1 61.7
103 43.4 37.0 55.6



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





#71

Bromoform

Concen: 14.883 ug/l

RT: 13.24 min Scan# 1200

Delta R.T. 0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

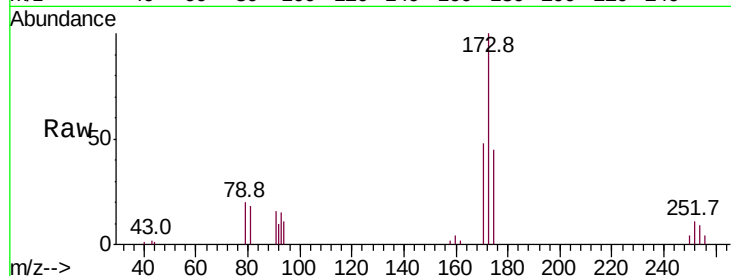
Tot Ion:173 Resp: 112412

Ion Ratio Lower Upper

173 100

175 44.7 23.4 70.2

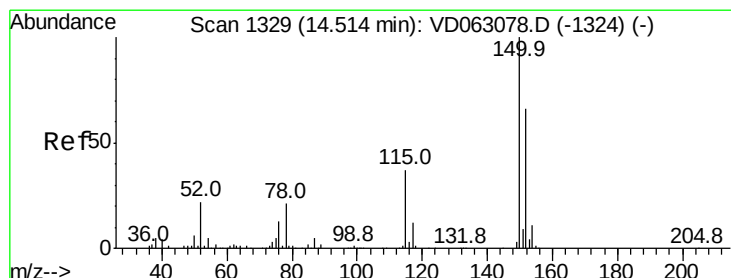
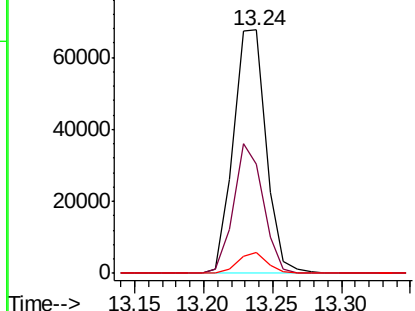
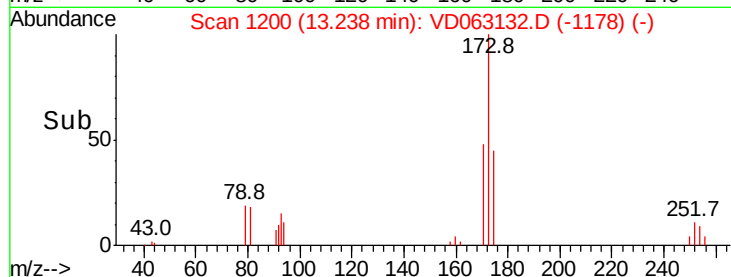
254 8.8 5.4 8.0#



Abundance Ion 172.80 (172.50 to 173.50): V

Ion 174.80 (174.50 to 175.50): V

Ion 253.70 (253.40 to 254.40): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

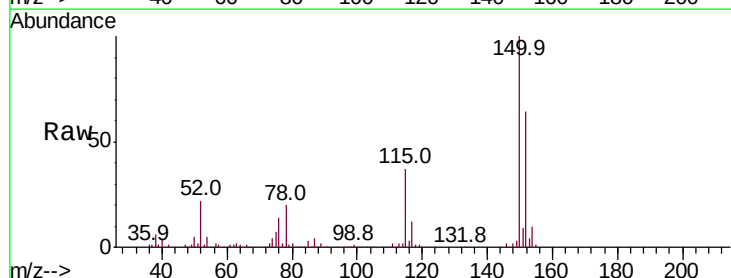
Tgt Ion:152 Resp: 533442

Ion Ratio Lower Upper

152 100

115 58.3 28.9 86.8

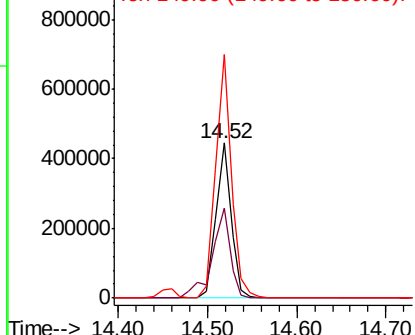
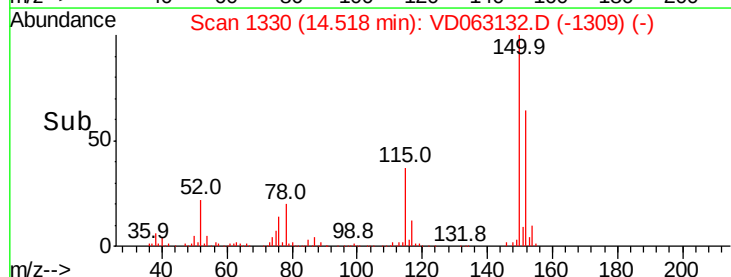
150 157.0 0.0 313.8

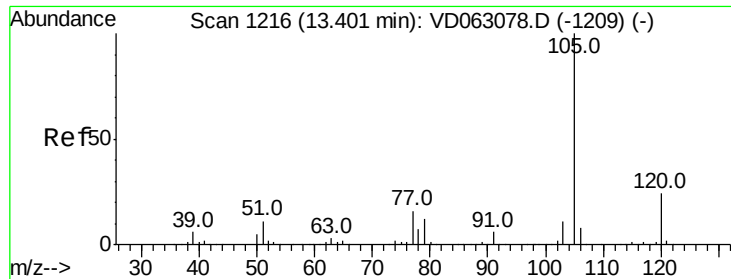


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 15.148 ug/l

RT: 13.41 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

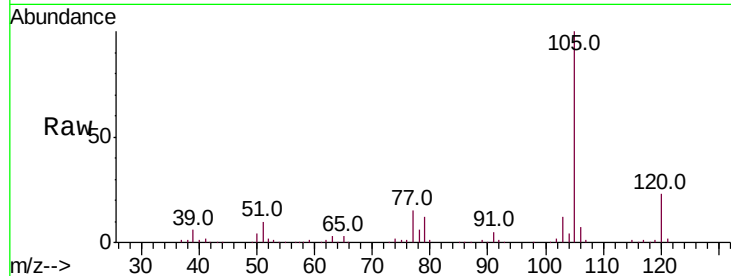
VD0717SBSD02

Tot Ion:105 Resp: 624027

Ion Ratio Lower Upper

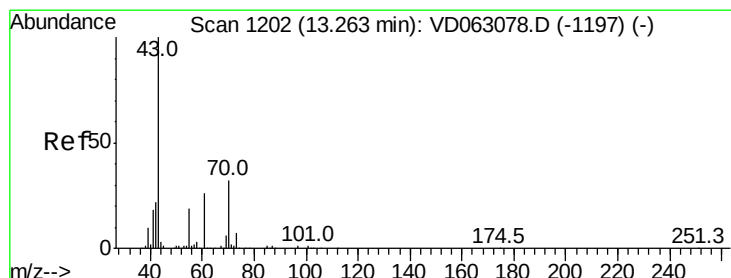
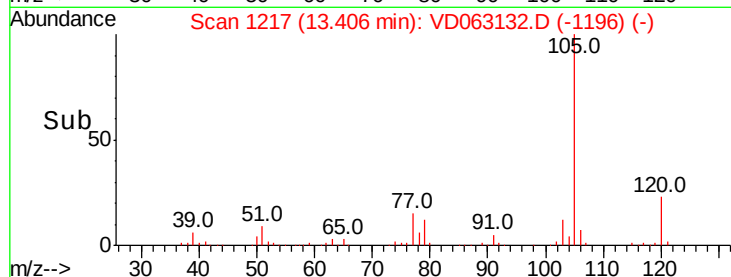
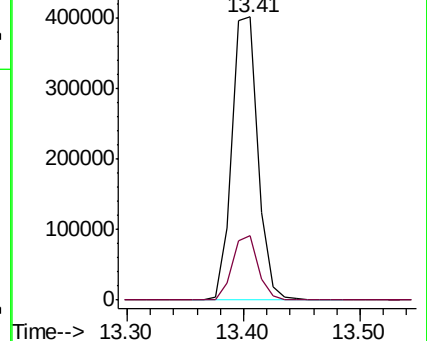
105 100

120 23.0 12.2 36.4



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 14.072 ug/l

RT: 13.27 min Scan# 1203

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Tgt Ion: 43 Resp: 161671

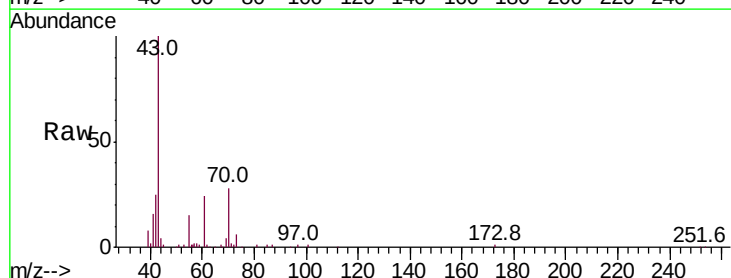
Ion Ratio Lower Upper

43 100

70 28.4 25.5 38.3

55 14.9 15.4 23.0#

61 23.9 20.6 31.0

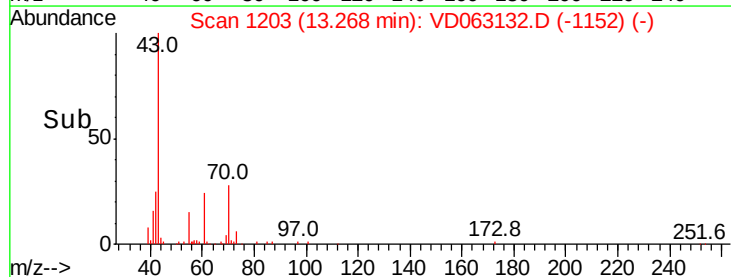
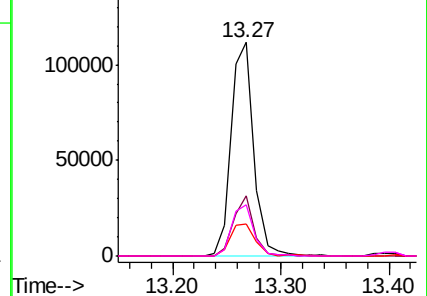


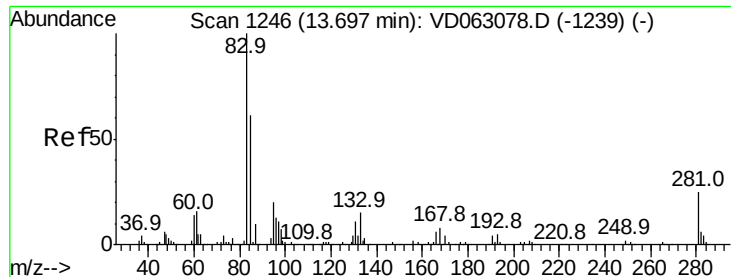
Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 14.912 ug/l

RT: 13.70 min Scan# 1247

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

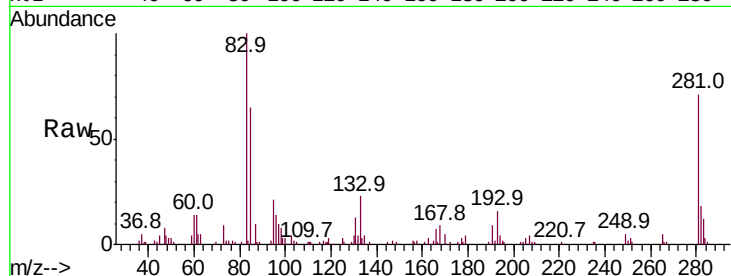
Tot Ion: 83 Resp: 111774

Ion Ratio Lower Upper

83 100

131 12.9 5.5 16.7

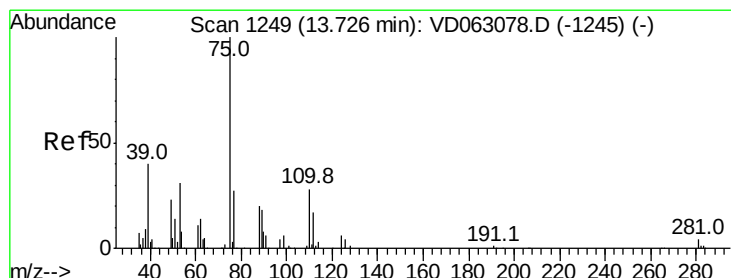
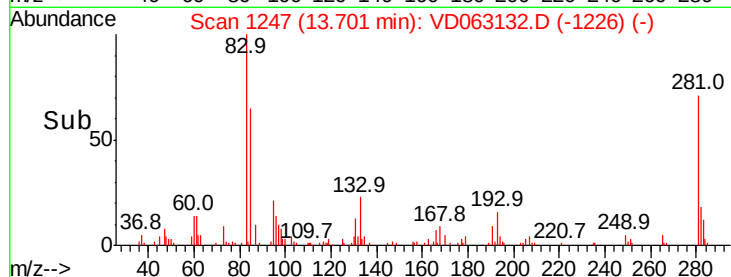
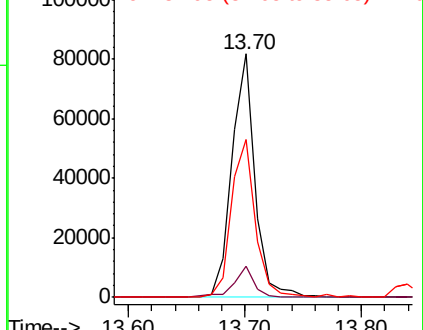
85 64.6 30.7 92.1



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): VDC

Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 15.087 ug/l

RT: 13.73 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VD063132.D

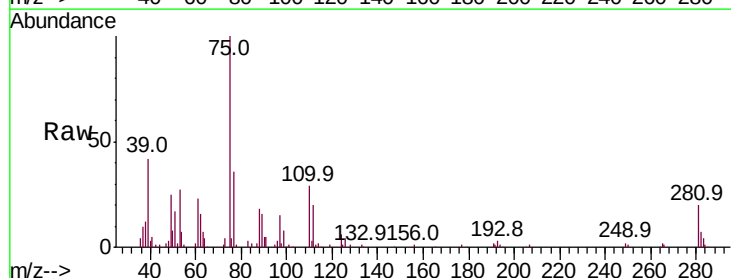
Acq: 17 Jul 2019 15:34

Tgt Ion: 75 Resp: 123806

Ion Ratio Lower Upper

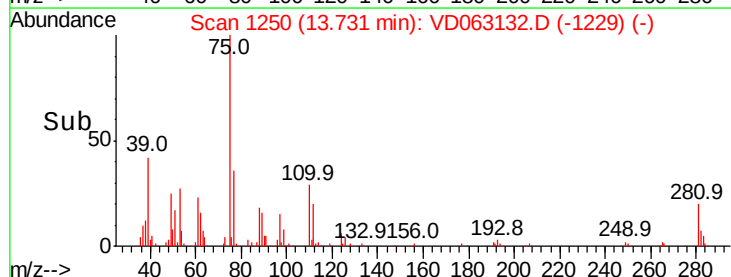
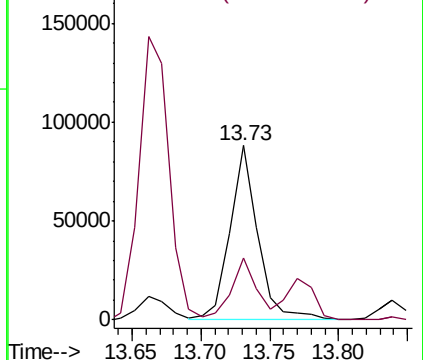
75 100

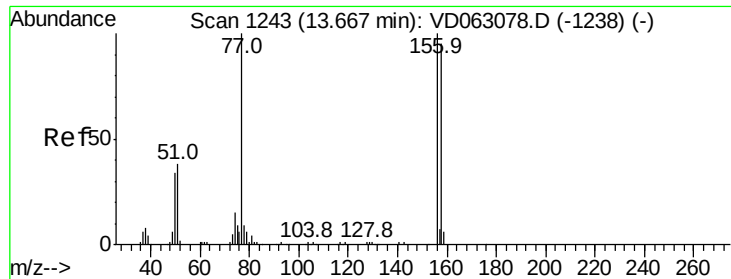
77 35.8 16.3 48.8



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

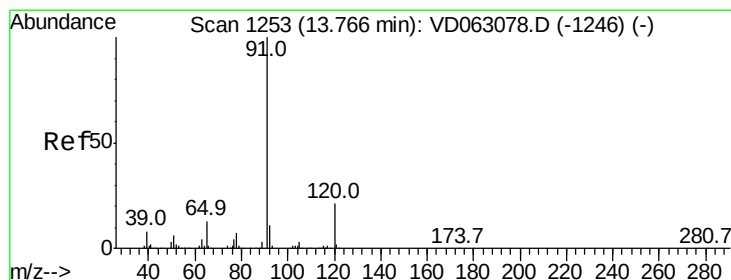
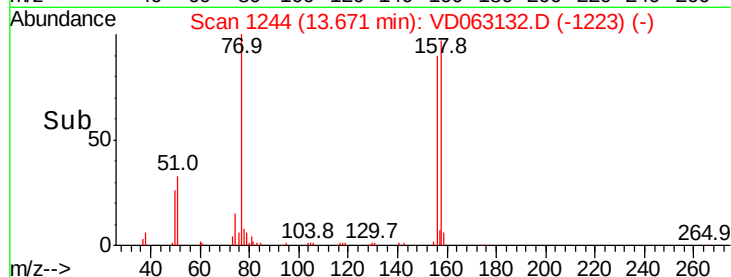
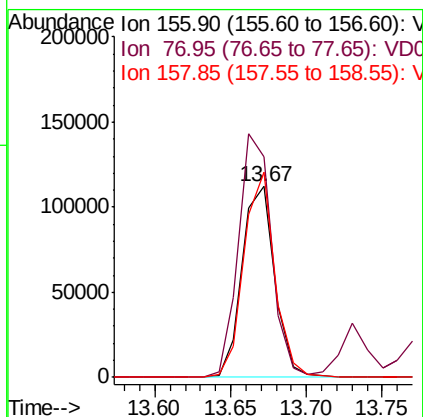
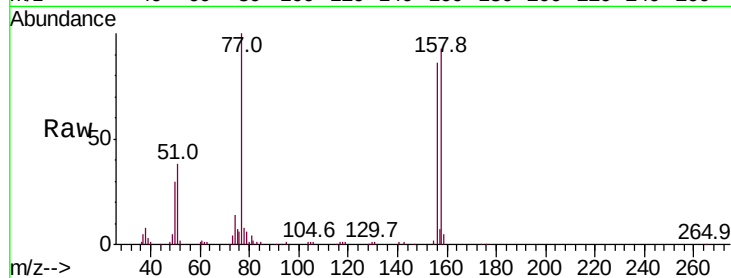




#77
Bromobenzene
Concen: 14.475 ug/l
RT: 13.67 min Scan# 1244
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

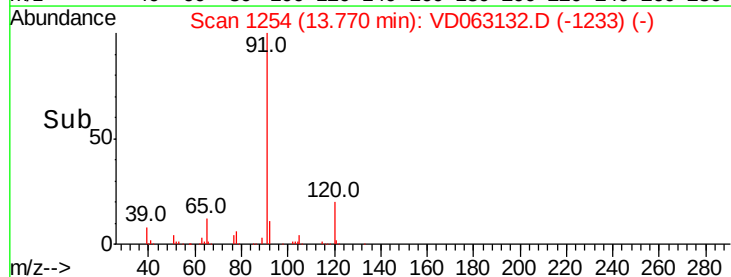
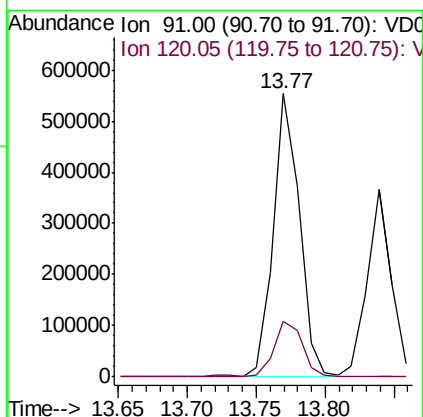
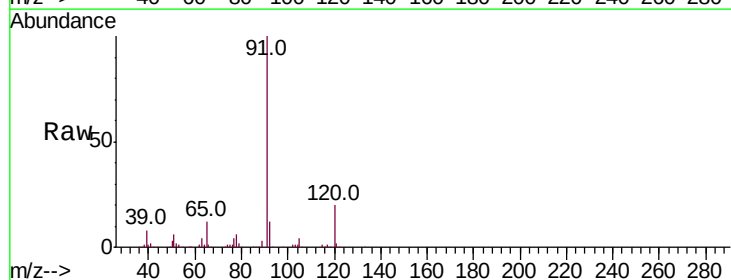
Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS02

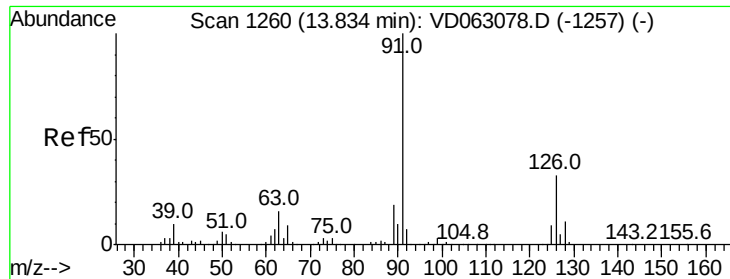
Tot Ion:156 Resp: 169108
Ion Ratio Lower Upper
156 100
77 115.7 50.2 150.7
158 107.2 47.6 142.9



#78
n-propylbenzene
Concen: 15.441 ug/l
RT: 13.77 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion: 91 Resp: 732011
Ion Ratio Lower Upper
91 100
120 19.5 10.5 31.6

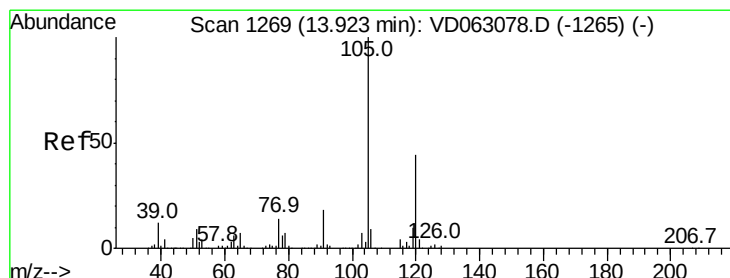
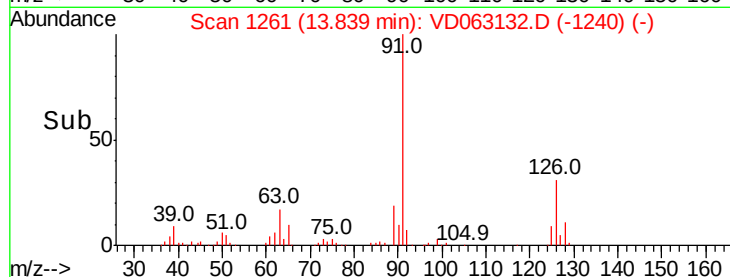
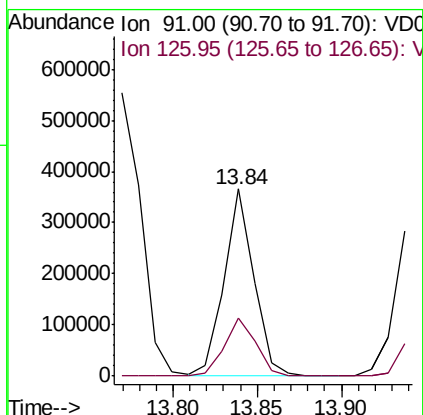
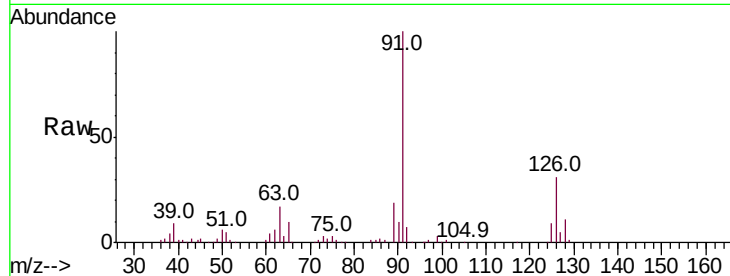




#79
 2-Chlorotoluene
 Concen: 15.711 ug/l
 RT: 13.84 min Scan# 1261
 Delta R.T. 0.00 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

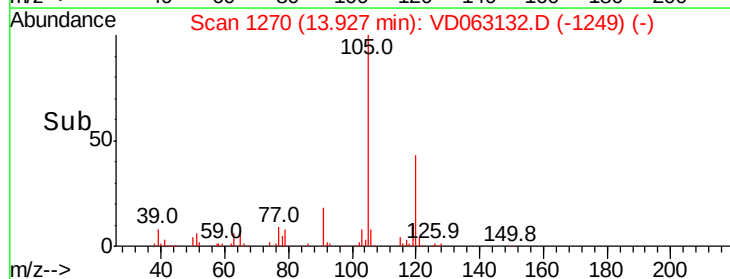
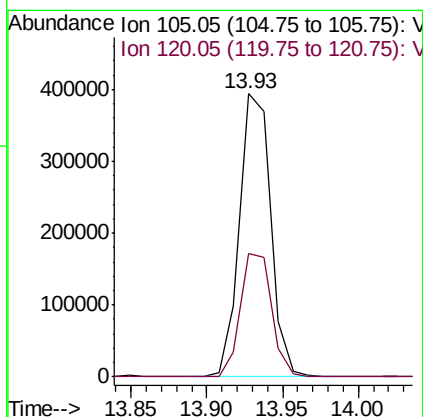
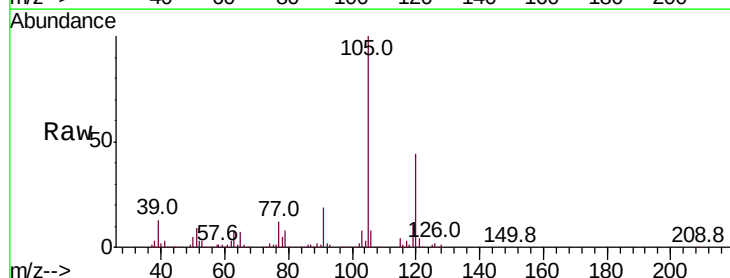
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBS02

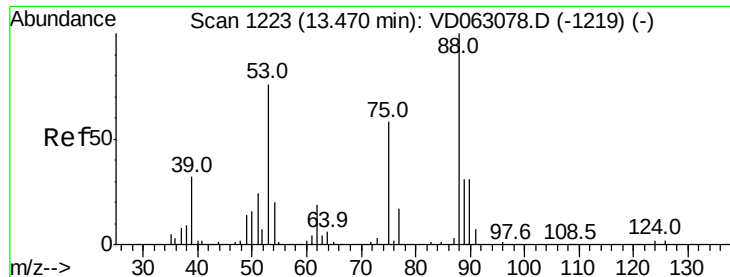
Tot Ion: 91 Resp: 450344
 Ion Ratio Lower Upper
 91 100
 126 31.0 16.4 49.2



#80
 1,3,5-Trimethylbenzene
 Concen: 15.759 ug/l
 RT: 13.93 min Scan# 1270
 Delta R.T. 0.00 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Tgt Ion:105 Resp: 565808
 Ion Ratio Lower Upper
 105 100
 120 43.6 21.8 65.4

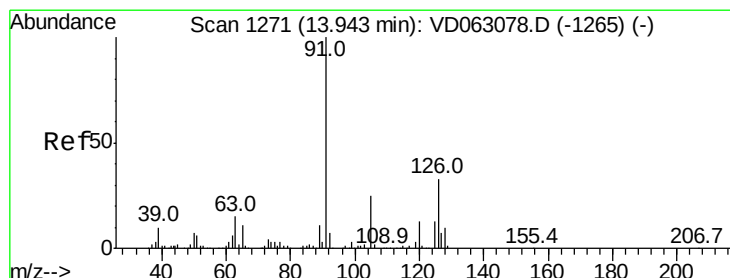
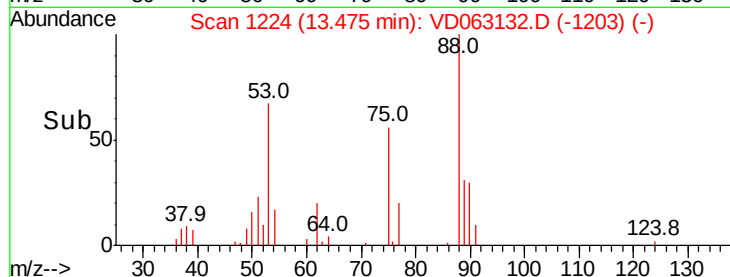
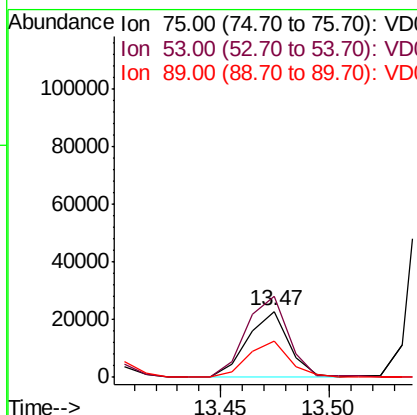
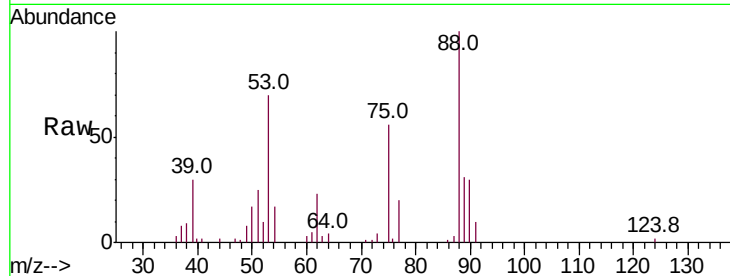




#81
trans-1,4-Dichloro-2-butene
Concen: 13.997 ug/l
RT: 13.47 min Scan# 1224
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

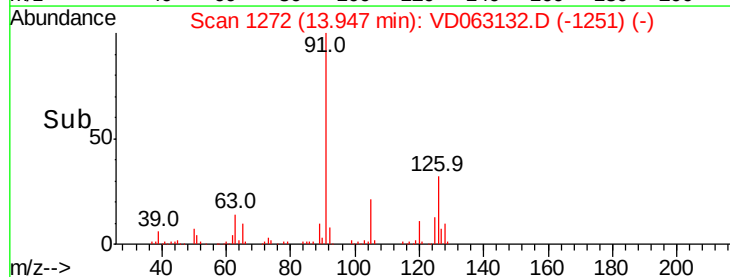
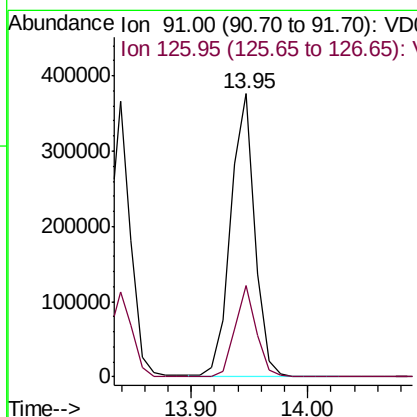
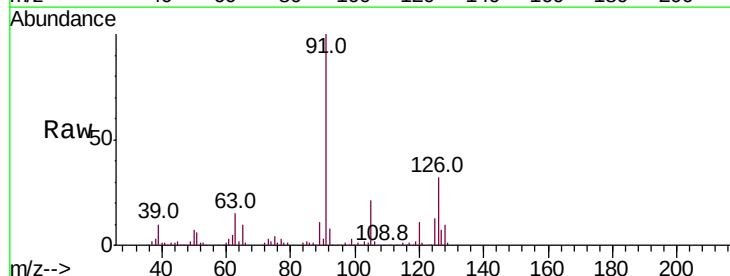
Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS02

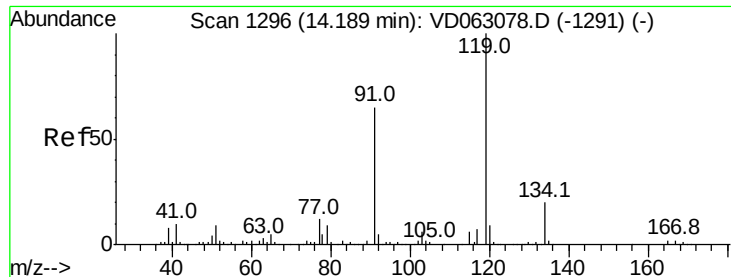
Tot Ion: 75 Resp: 30247
Ion Ratio Lower Upper
75 100
53 124.0 104.4 156.6
89 54.3 43.1 64.7



#82
4-Chlorotoluene
Concen: 16.108 ug/l
RT: 13.95 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion: 91 Resp: 539174
Ion Ratio Lower Upper
91 100
126 32.4 16.7 50.1





#83

tert-Butylbenzene

Concen: 14.712 ug/l

RT: 14.18 min Scan# 1296

Delta R.T. -0.01 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

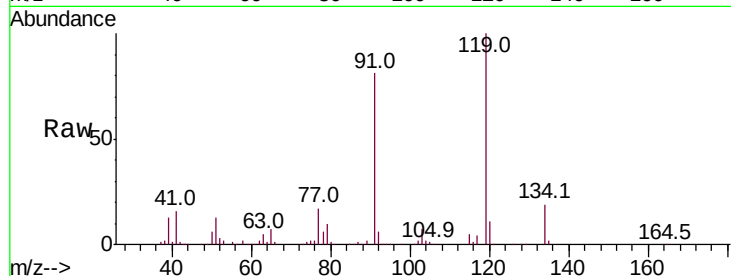
Tot Ion:119 Resp: 597265

Ion Ratio Lower Upper

119 100

91 81.3 32.4 97.2

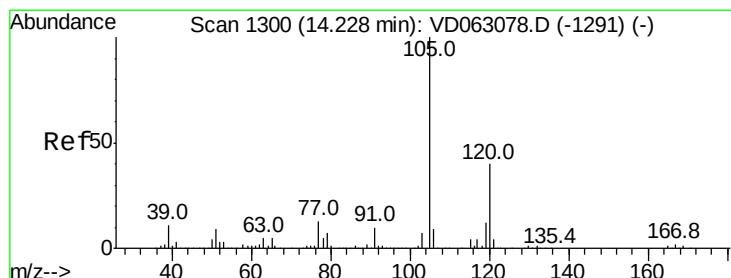
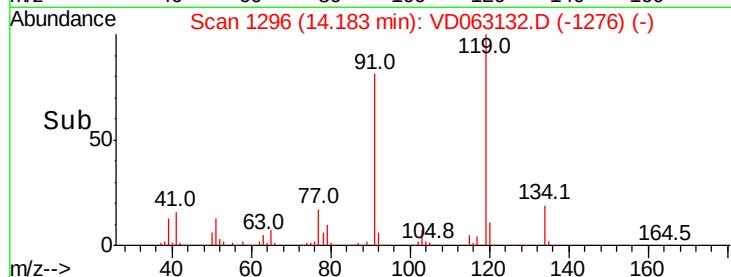
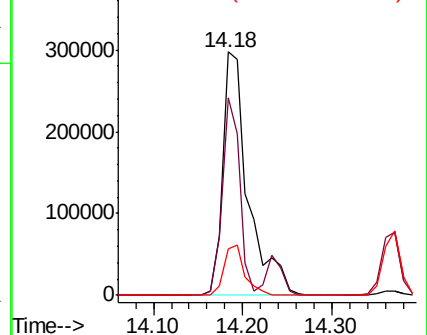
134 18.8 10.2 30.6



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: 15.897 ug/l

RT: 14.23 min Scan# 1301

Delta R.T. 0.00 min

Lab File: VD063132.D

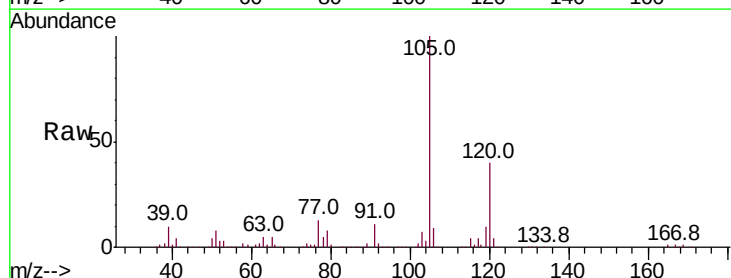
Acq: 17 Jul 2019 15:34

Tgt Ion:105 Resp: 569026

Ion Ratio Lower Upper

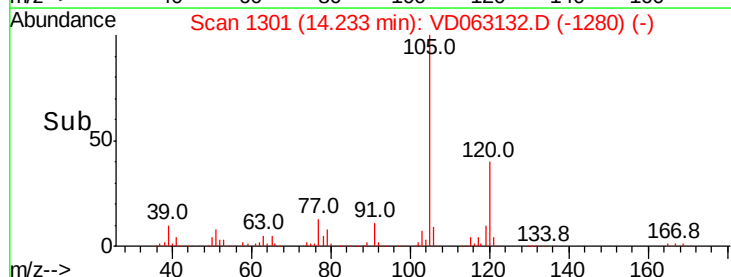
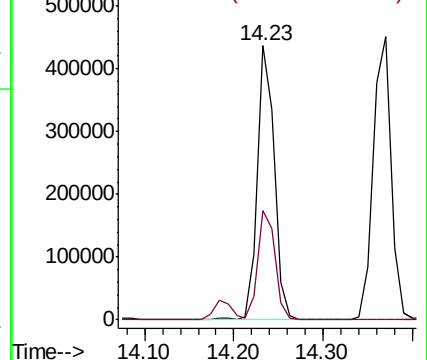
105 100

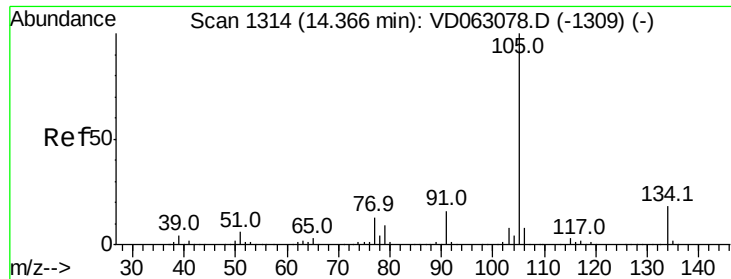
120 39.6 20.2 60.6



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V





#85

sec-Butylbenzene

Concen: 14.408 ug/l

RT: 14.37 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

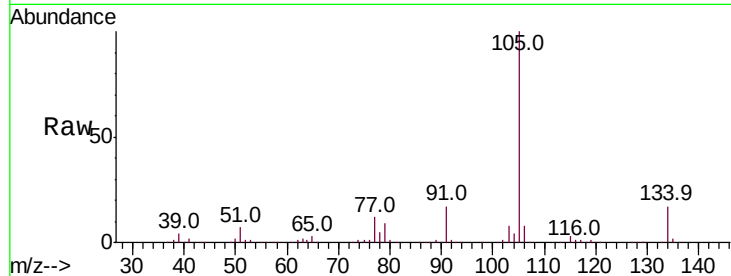
VD0717SBSD02

Tot Ion:105 Resp: 621473

Ion Ratio Lower Upper

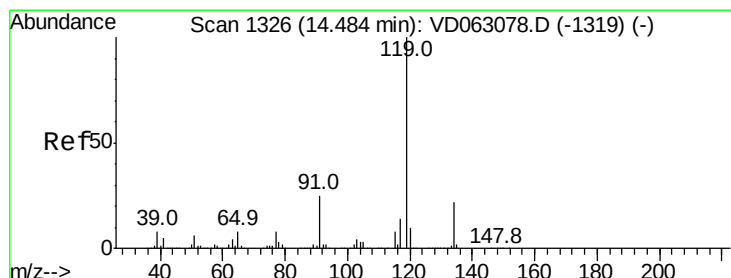
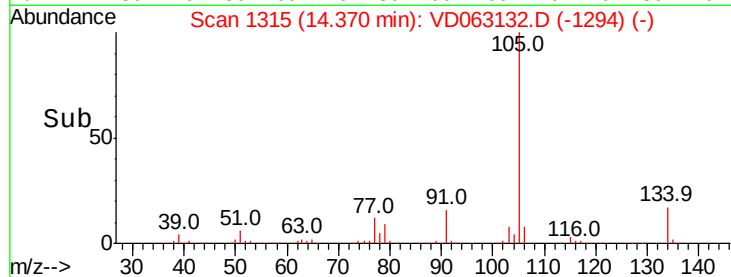
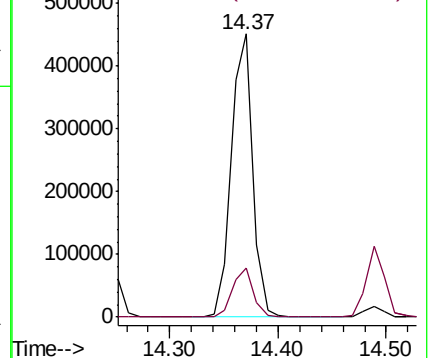
105 100

134 17.3 8.9 26.8



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 14.971 ug/l

RT: 14.49 min Scan# 1327

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

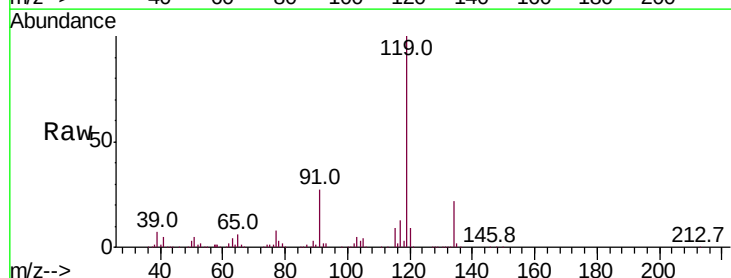
Tgt Ion:119 Resp: 602419

Ion Ratio Lower Upper

119 100

134 21.9 10.8 32.4

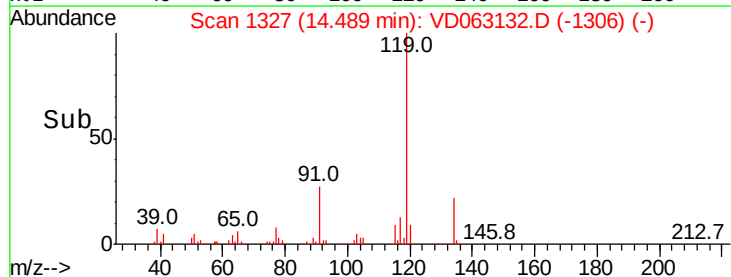
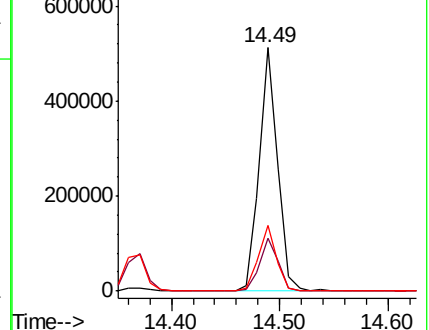
91 26.8 12.5 37.5

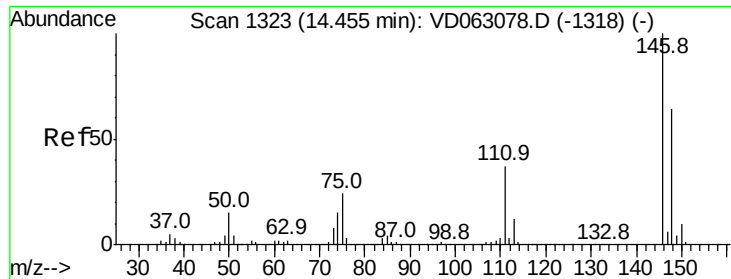


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

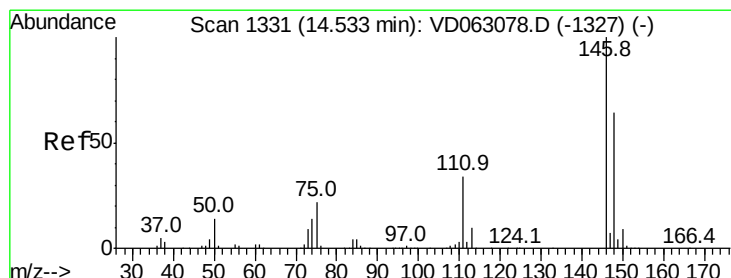
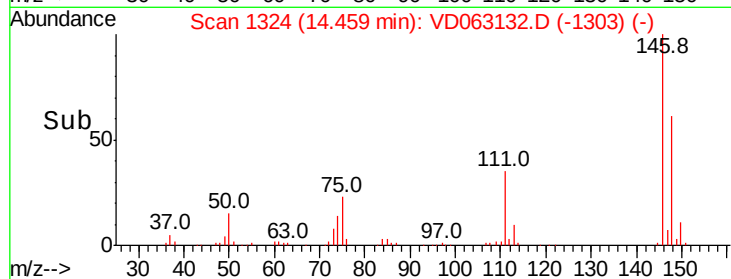
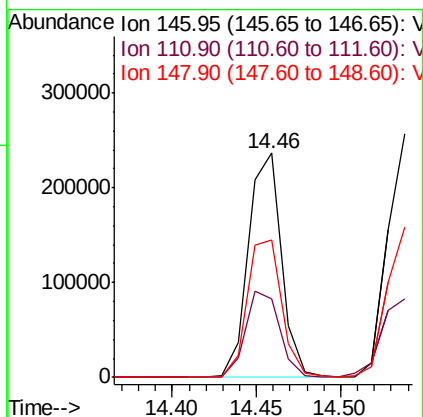
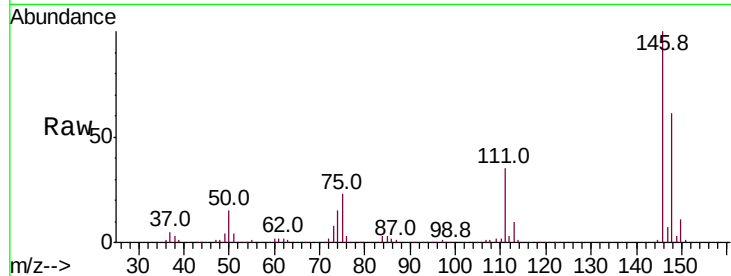




#87
 1,3-Dichlorobenzene
 Concen: 15.451 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

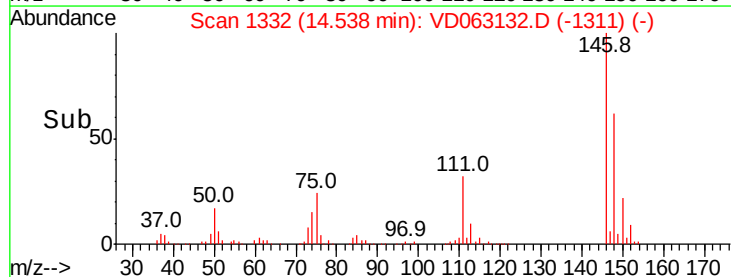
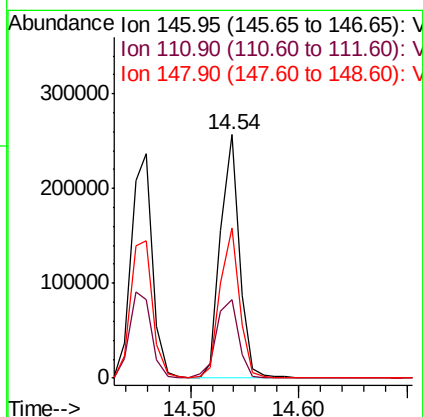
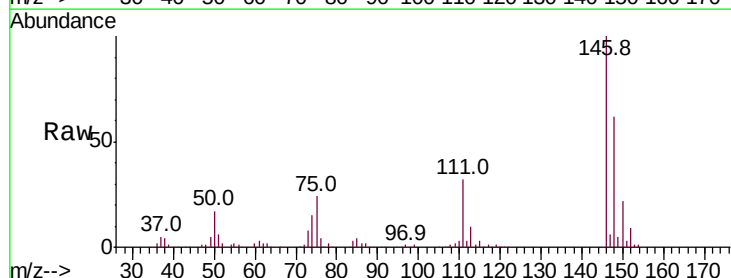
Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBSD02

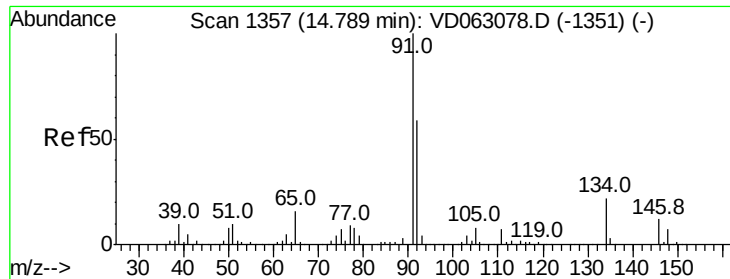
Tot Ion:146 Resp: 322368
 Ion Ratio Lower Upper
 146 100
 111 35.2 18.6 55.6
 148 61.2 32.0 96.0



#88
 1,4-Dichlorobenzene
 Concen: 15.721 ug/l
 RT: 14.54 min Scan# 1332
 Delta R.T. 0.00 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Tgt Ion:146 Resp: 314432
 Ion Ratio Lower Upper
 146 100
 111 32.5 17.0 51.0
 148 61.6 32.0 96.2





#89

n-Butylbenzene

Concen: 15.375 ug/l

RT: 14.79 min Scan# 1358

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

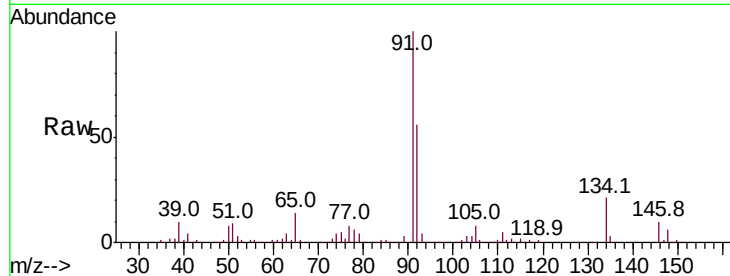
Tot Ion: 91 Resp: 570239

Ion Ratio Lower Upper

91 100

92 55.6 29.4 88.3

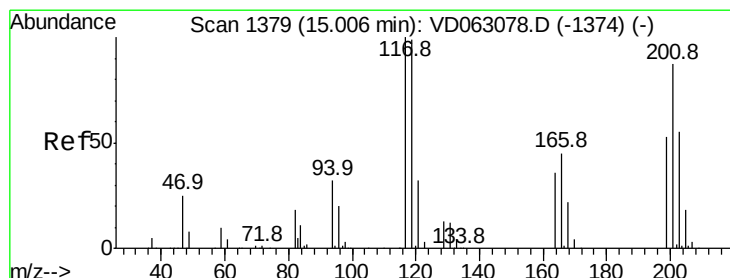
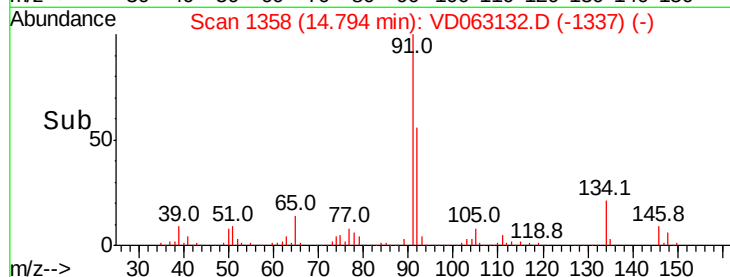
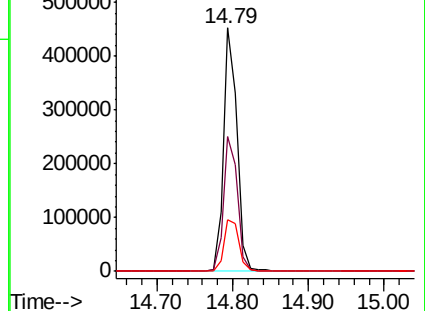
134 21.4 11.3 33.8



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 92.00 (91.70 to 92.70): VDC

Ion 134.10 (133.80 to 134.80): VDC



#90

Hexachloroethane

Concen: 13.979 ug/l

RT: 15.01 min Scan# 1380

Delta R.T. 0.00 min

Lab File: VD063132.D

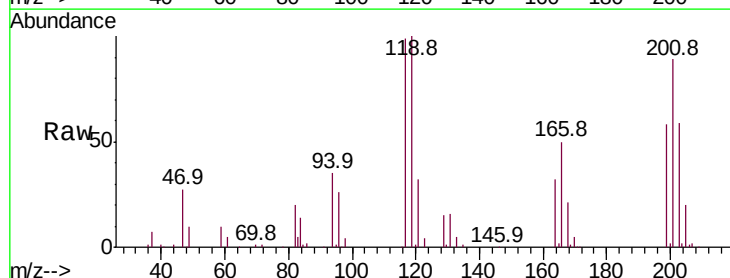
Acq: 17 Jul 2019 15:34

Tgt Ion: 117 Resp: 150371

Ion Ratio Lower Upper

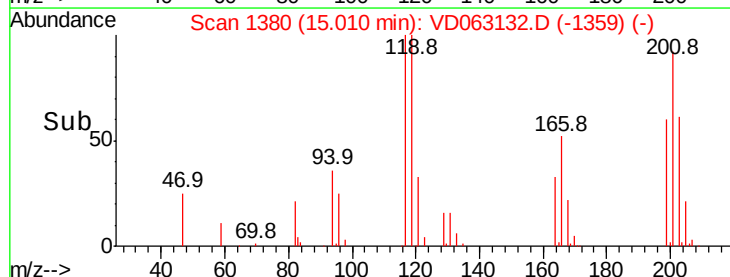
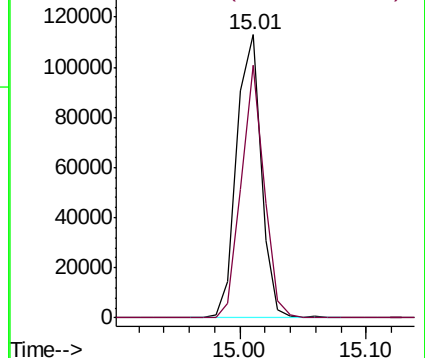
117 100

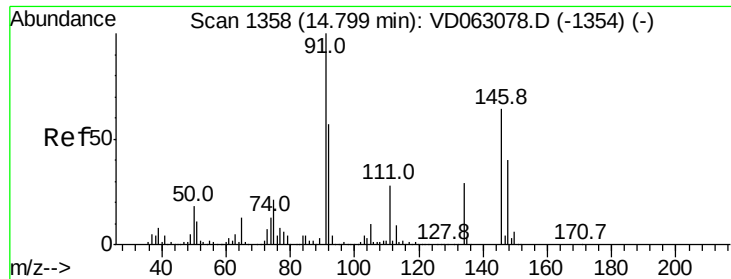
201 89.5 43.4 130.1



Abundance Ion 116.85 (116.55 to 117.55): VDC

Ion 200.75 (200.45 to 201.45): VDC





#91

1,2-Dichlorobenzene

Concen: 15.033 ug/l

RT: 14.80 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

Instrument :

MSVOA_D

ClientSampleId :

VD0717SBS02

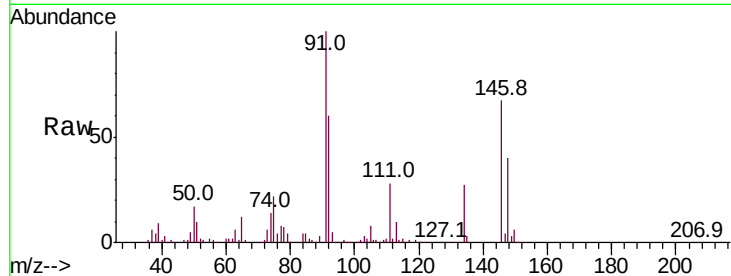
Tot Ion:146 Resp: 279288

Ion Ratio Lower Upper

146 100

111 42.5 21.9 65.5

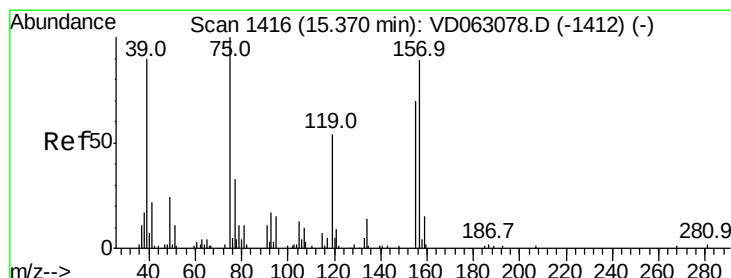
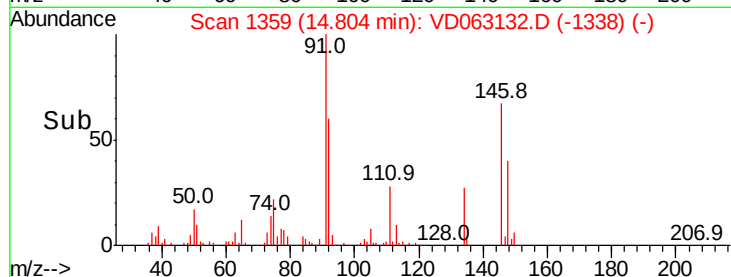
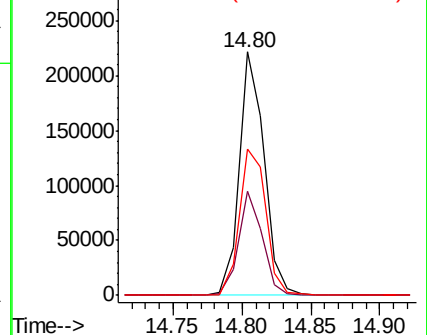
148 60.3 31.5 94.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 14.125 ug/l

RT: 15.37 min Scan# 1417

Delta R.T. 0.00 min

Lab File: VD063132.D

Acq: 17 Jul 2019 15:34

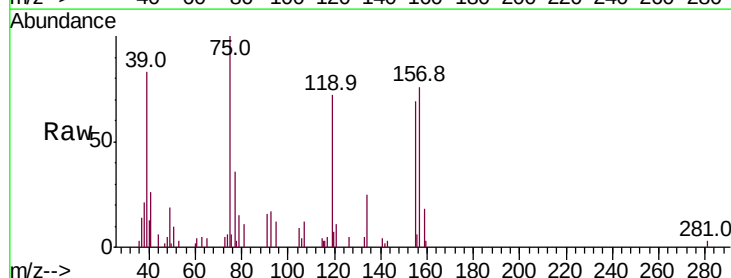
Tgt Ion: 75 Resp: 20293

Ion Ratio Lower Upper

75 100

155 69.0 34.8 104.3

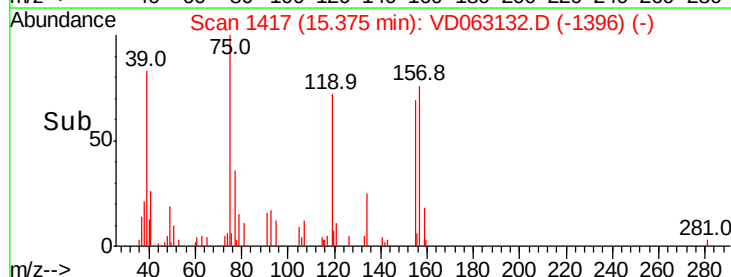
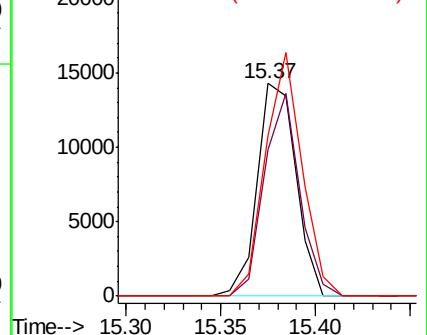
157 75.5 44.7 134.1

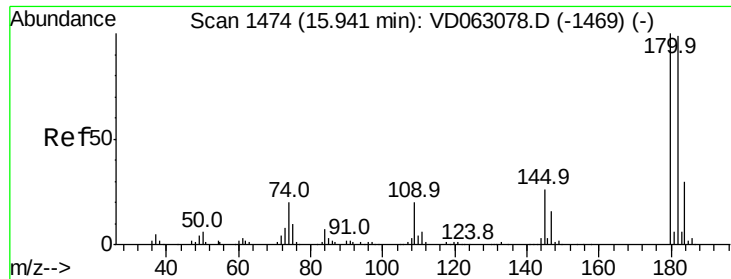


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V

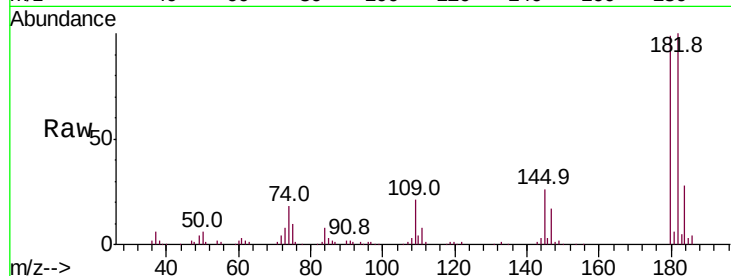




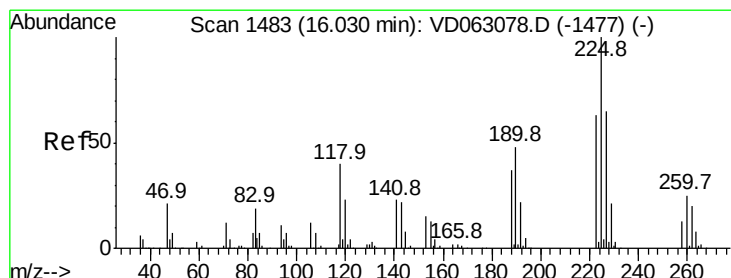
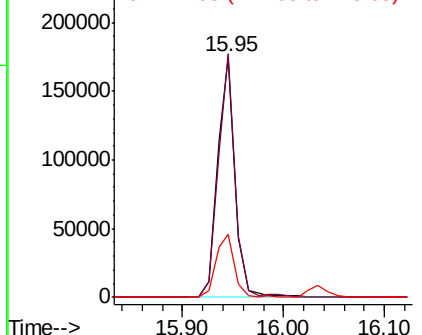
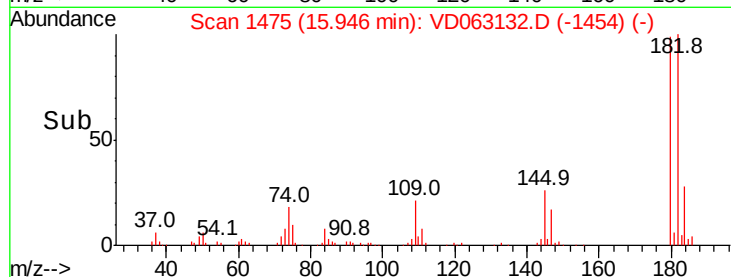
#93
 1,2,4-Trichlorobenzene
 Concen: 15.146 ug/l
 RT: 15.95 min Scan# 1475
 Delta R.T. 0.00 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Instrument :
 MSVOA_D
 ClientSampleId :
 VD0717SBSD02

Tot Ion:180 Resp: 211400
 Ion Ratio Lower Upper
 180 100
 182 101.4 49.5 148.3
 145 26.1 12.8 38.4

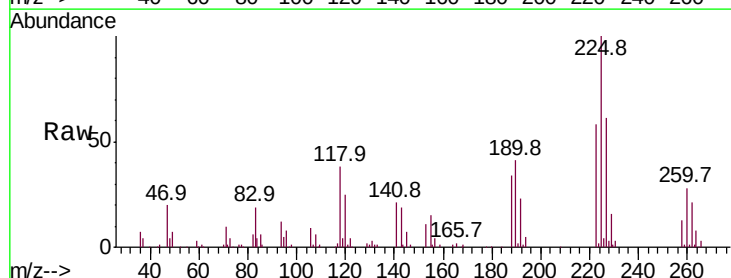


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

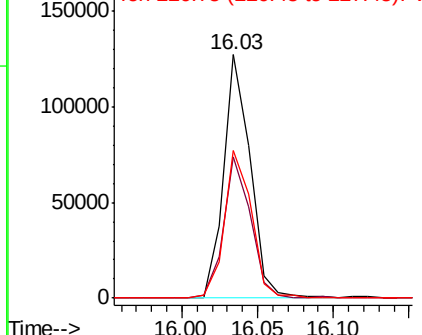
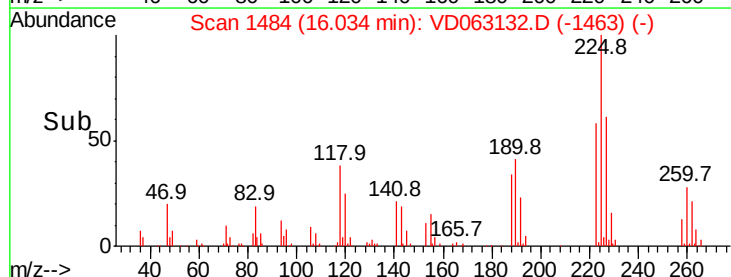


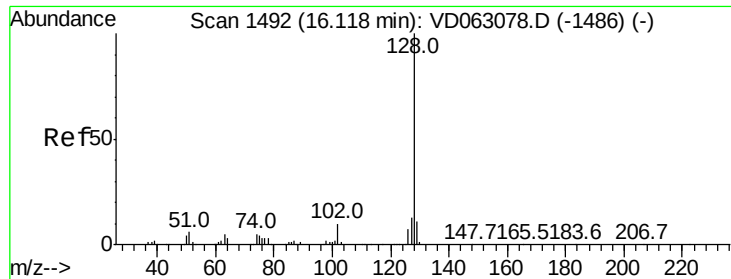
#94
 Hexachlorobutadiene
 Concen: 15.088 ug/l
 RT: 16.03 min Scan# 1484
 Delta R.T. 0.00 min
 Lab File: VD063132.D
 Acq: 17 Jul 2019 15:34

Tgt Ion:225 Resp: 155221
 Ion Ratio Lower Upper
 225 100
 223 58.2 31.4 94.2
 227 60.7 32.6 97.8



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

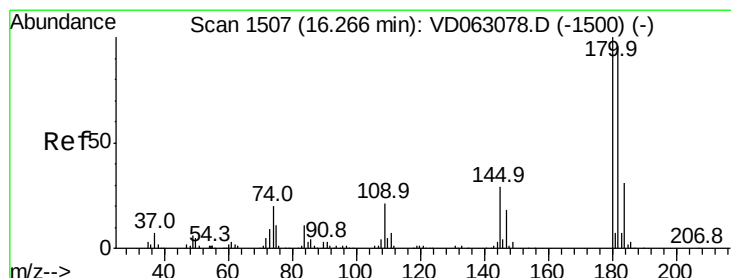
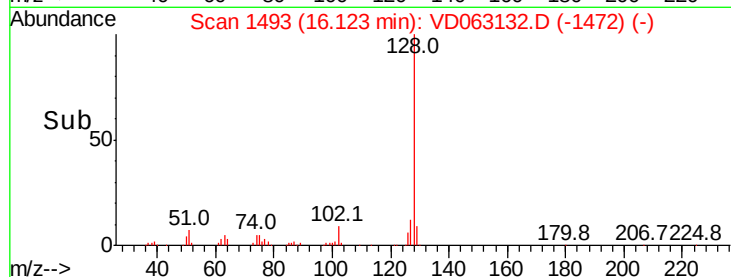
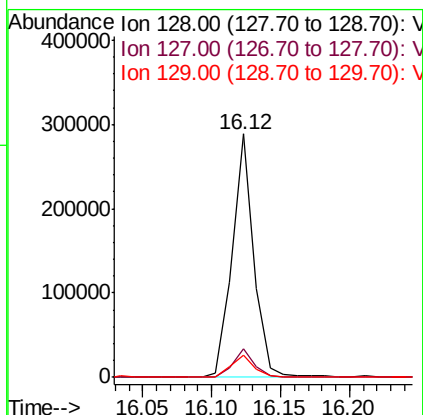
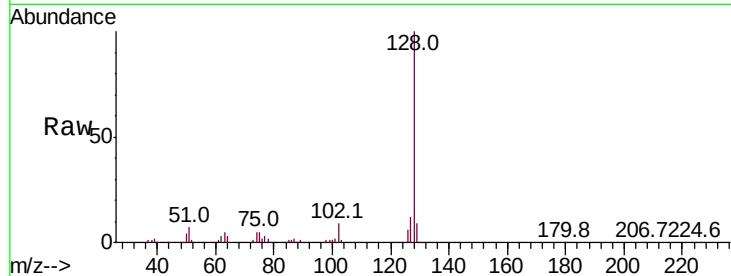




#95
Naphthalene
Concen: 15.388 ug/l
RT: 16.12 min Scan# 1493
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Instrument :
MSVOA_D
ClientSampleId :
VD0717SBS02

Tot Ion:128 Resp: 314170
Ion Ratio Lower Upper
128 100
127 11.8 10.7 16.1
129 9.2 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 15.345 ug/l
RT: 16.27 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VD063132.D
Acq: 17 Jul 2019 15:34

Tgt Ion:180 Resp: 172292
Ion Ratio Lower Upper
180 100
182 95.3 47.9 143.6
145 29.1 14.4 43.4

