

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092519\
 Data File : VD063832.D
 Acq On : 25 Sep 2019 19:43
 Operator : VA/SY
 Sample : VSTDICV050
 Misc : 5.00g/5.00mL/MSVOA D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 26 12:07:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D092519S.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 26 12:03:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.00	168	256571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.88	114	400986	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	391113	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	205776	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.36	65	129361	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
35) Dibromofluoromethane	7.94	113	128761	50.58	ug/l	0.00
Spiked Amount			Recovery	=	101.16%	
50) Toluene-d8	10.36	98	530508	55.37	ug/l	0.00
Spiked Amount			Recovery	=	110.74%	
62) 4-Bromofluorobenzene	12.64	95	182726	53.14	ug/l	0.00
Spiked Amount			Recovery	=	106.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	105924	60.196	ug/l	95
3) Chloromethane	2.22	50	220021	50.021	ug/l	100
4) Vinyl Chloride	2.36	62	245566	45.124	ug/l	94
5) Bromomethane	2.78	94	156234	49.068	ug/l	93
6) Chloroethane	2.94	64	156049	49.684	ug/l	98
7) Trichlorofluoromethane	3.29	101	335186	45.812	ug/l	95
8) Diethyl Ether	3.73	74	55432	52.142	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.10	101	109256	50.338	ug/l	98
10) Methyl Iodide	4.31	142	150688	58.152	ug/l	98
11) Tert butyl alcohol	5.28	59	41363	248.595	ug/l #	85
12) 1,1-Dichloroethene	4.07	96	106346	48.540	ug/l	90
13) Acrolein	3.95	56	57720	251.846	ug/l	98
14) Allyl chloride	4.73	41	164438	47.483	ug/l	97
15) Acrylonitrile	5.46	53	130257	247.148	ug/l	96
16) Acetone	4.19	43	121347	249.403	ug/l	95
17) Carbon Disulfide	4.43	76	367932	49.679	ug/l	96
18) Methyl Acetate	4.75	43	58782	50.104	ug/l	93
19) Methyl tert-butyl Ether	5.51	73	272904	49.752	ug/l	92
20) Methylene Chloride	4.99	84	137378	51.924	ug/l	96
21) trans-1,2-Dichloroethene	5.49	96	130730	51.263	ug/l	93
22) Diisopropyl ether	6.39	45	341319	47.720	ug/l	98
23) Vinyl Acetate	6.34	43	1032550	244.070	ug/l	99
24) 1,1-Dichloroethane	6.29	63	215676	49.633	ug/l	97
25) 2-Butanone	7.25	43	163740	230.959	ug/l	95
26) 2,2-Dichloropropane	7.24	77	191208	47.050	ug/l	99
27) cis-1,2-Dichloroethene	7.23	96	144801	50.602	ug/l	98
28) Bromochloromethane	7.57	49	84560	49.591	ug/l	92
29) Tetrahydrofuran	7.60	42	100451	236.467	ug/l	98
30) Chloroform	7.73	83	230824	48.905	ug/l	94
31) Cyclohexane	8.00	56	192463	51.501	ug/l	97
32) 1,1,1-Trichloroethane	7.92	97	212325	49.750	ug/l	95
36) 1,1-Dichloropropene	8.13	75	176943	48.377	ug/l	98
37) Ethyl Acetate	7.32	43	70955	52.143	ug/l	97
38) Carbon Tetrachloride	8.11	117	187462	49.243	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.37	83	223423	49.058	ug/l	100
40) Benzene	8.37	78	499846	49.622	ug/l	99
41) Methacrylonitrile	7.56	41	34523	42.730	ug/l #	86
42) 1,2-Dichloroethane	8.45	62	147308	50.010	ug/l	100
43) Isopropyl Acetate	8.47	43	146540	47.852	ug/l	99
44) Trichloroethene	9.13	130	148036	50.747	ug/l	90
45) 1,2-Dichloropropane	9.41	63	124192	49.911	ug/l	98
46) Dibromomethane	9.49	93	70267	50.033	ug/l	98
47) Bromodichloromethane	9.68	83	185042	51.111	ug/l	94
48) Methyl methacrylate	9.48	41	66639	47.844	ug/l	96
49) 1,4-Dioxane	9.48	88	19404	990.389	ug/l	96
51) 4-Methyl-2-Pentanone	10.25	43	366218	237.380	ug/l	96
52) Toluene	10.42	92	341032	49.931	ug/l	98
53) t-1,3-Dichloropropene	10.64	75	183971	51.265	ug/l	100
54) cis-1,3-Dichloropropene	10.11	75	211263	51.862	ug/l	96
55) 1,1,2-Trichloroethane	10.82	97	99129	49.952	ug/l	95
56) Ethyl methacrylate	10.67	69	125184	49.632	ug/l	99
57) 1,3-Dichloropropane	10.96	76	166559	49.397	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.96	63	262350	232.718	ug/l	97
59) 2-Hexanone	11.00	43	260131	236.320	ug/l	100
60) Dibromochloromethane	11.16	129	134688	51.430	ug/l	99
61) 1,2-Dibromoethane	11.26	107	100933	50.877	ug/l	100
64) Tetrachloroethene	10.89	164	133054	50.503	ug/l	95
65) Chlorobenzene	11.68	112	392830	49.931	ug/l	95
66) 1,1,1,2-Tetrachloroethane	11.76	131	143206	49.529	ug/l	98
67) Ethyl Benzene	11.76	91	696651	49.021	ug/l	98
68) m/p-Xylenes	11.87	106	544181	99.716	ug/l	98
69) o-Xylene	12.19	106	257545	50.000	ug/l	99
70) Styrene	12.21	104	445189	51.068	ug/l	99
71) Bromoform	12.37	173	83561	52.024	ug/l #	98
73) Isopropylbenzene	12.49	105	694924	49.442	ug/l	99
74) N-amyl acetate	12.30	43	145423	47.265	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.74	83	111590	47.632	ug/l	99
76) 1,2,3-Trichloropropane	12.80	75	145873	93.490	ug/l #	100
77) Bromobenzene	12.77	156	173481	51.359	ug/l	98
78) n-propylbenzene	12.83	91	817974	49.467	ug/l	98
79) 2-Chlorotoluene	12.92	91	437071	49.004	ug/l	97
80) 1,3,5-Trimethylbenzene	12.97	105	587345	50.128	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.54	75	38299	49.021	ug/l	96
82) 4-Chlorotoluene	13.01	91	465275	48.902	ug/l	99
83) tert-Butylbenzene	13.24	119	522932	51.079	ug/l	98
84) 1,2,4-Trimethylbenzene	13.28	105	597388	50.222	ug/l	98
85) sec-Butylbenzene	13.41	105	716556	50.300	ug/l	98
86) p-Isopropyltoluene	13.53	119	670736	50.133	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	337821	50.938	ug/l	99
88) 1,4-Dichlorobenzene	13.61	146	337748	51.206	ug/l	96
89) n-Butylbenzene	13.86	91	626588	49.208	ug/l	99
90) Hexachloroethane	14.13	117	122215	49.317	ug/l	93
91) 1,2-Dichlorobenzene	13.90	146	292198	51.363	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.52	75	19026	48.132	ug/l	97

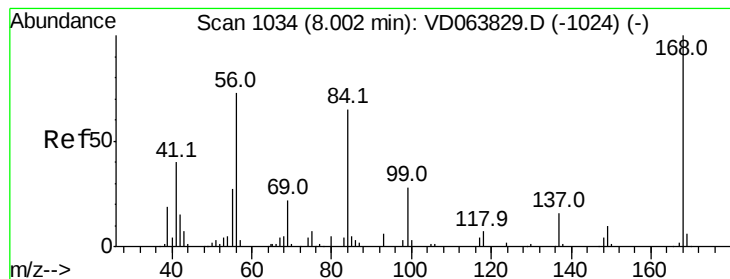
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092519\
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	228262	52.837	ug/l	98
94) Hexachlorobutadiene	15.28	225	128325	52.425	ug/l	96
95) Naphthalene	15.41	128	401042	51.694	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	194182	50.699	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.00 min Scan# 1034

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

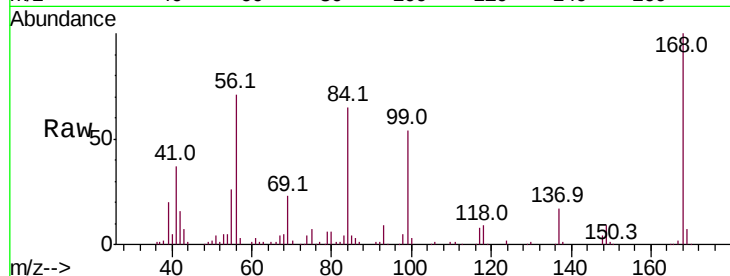
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 256571

Ion Ratio Lower Upper

168 100

99 53.2 41.2 61.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

8.00

120000

100000

80000

60000

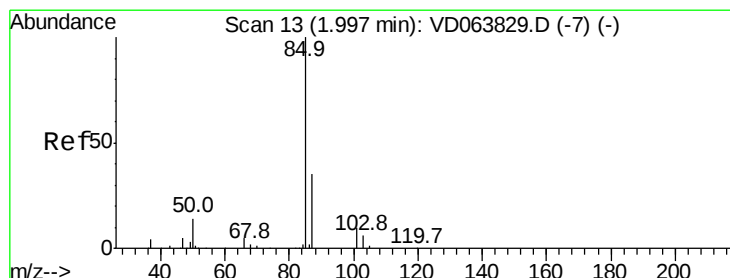
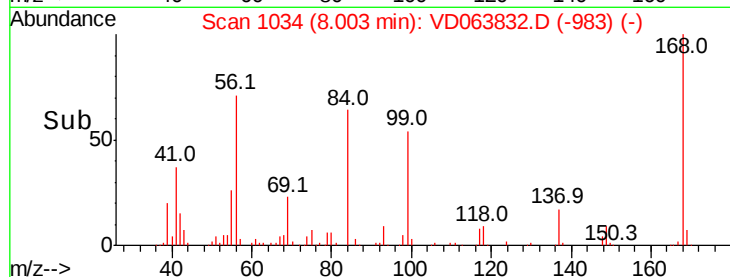
40000

20000

0

Time-->

7.90 7.95 8.00 8.05 8.10



#2

Dichlorodifluoromethane

Concen: 60.196 ug/l

RT: 2.00 min Scan# 13

Delta R.T. 0.00 min

Lab File: VD063832.D

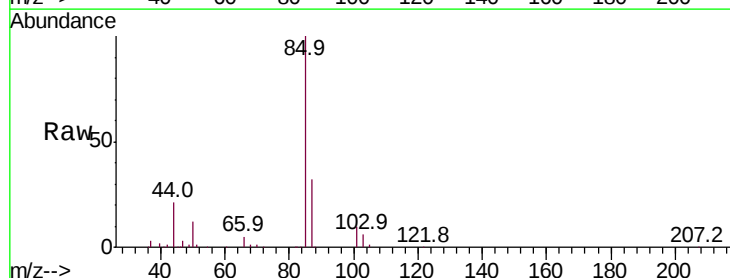
Acq: 25 Sep 2019 19:43

Tgt Ion: 85 Resp: 105924

Ion Ratio Lower Upper

85 100

87 31.5 17.3 51.7



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

2.00

80000

60000

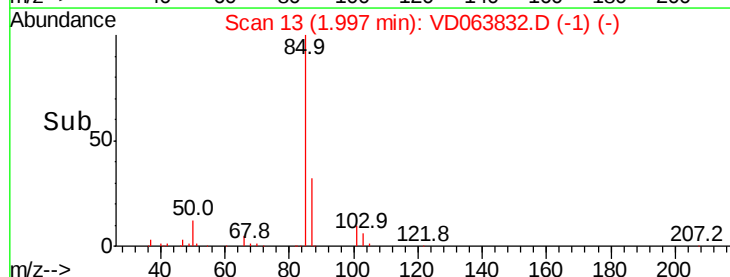
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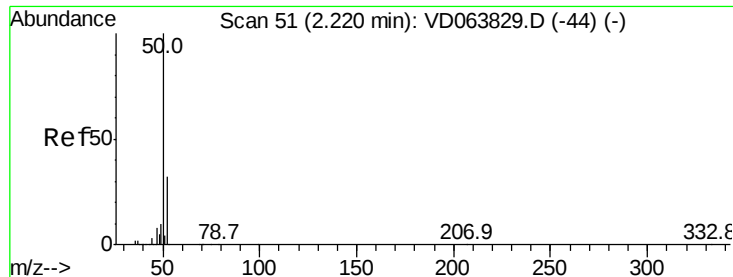
20000

0

Time-->

1.90 2.00 2.10





#3

Chloromethane

Concen: 50.021 ug/l

RT: 2.22 min Scan# 51

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

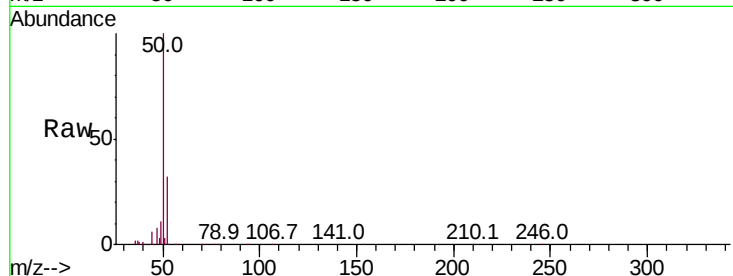
ClientSampleId :

Tot Ion: 50 Resp: 220021

Ion Ratio Lower Upper

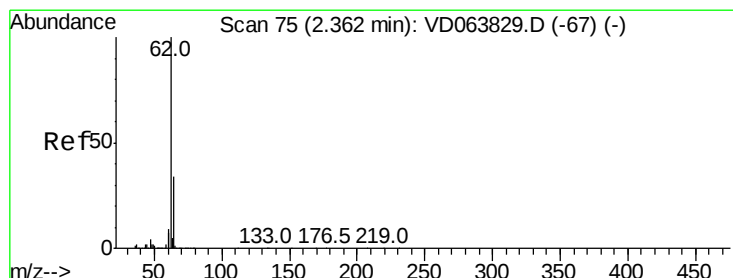
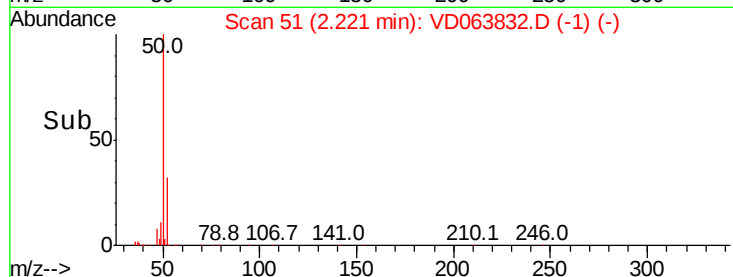
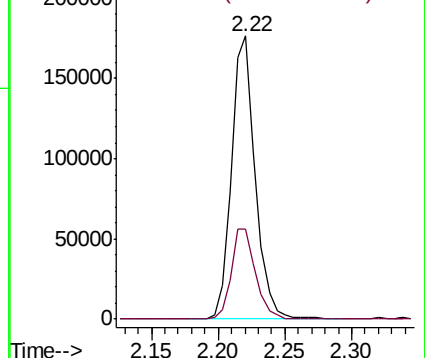
50 100

52 31.8 25.6 38.4



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 45.124 ug/l

RT: 2.36 min Scan# 75

Delta R.T. 0.00 min

Lab File: VD063832.D

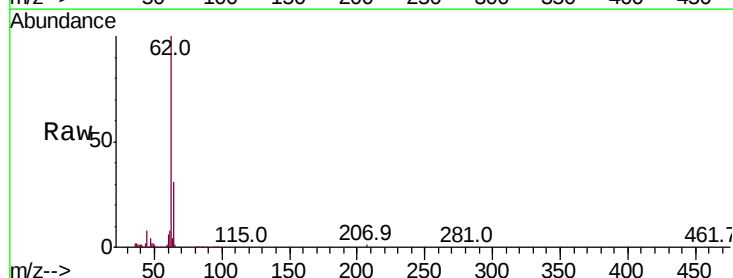
Acq: 25 Sep 2019 19:43

Tgt Ion: 62 Resp: 245566

Ion Ratio Lower Upper

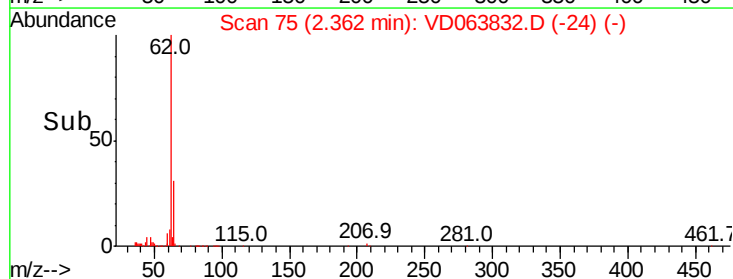
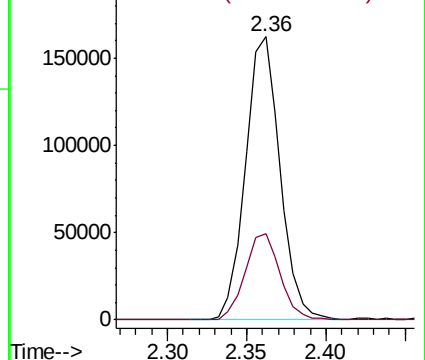
62 100

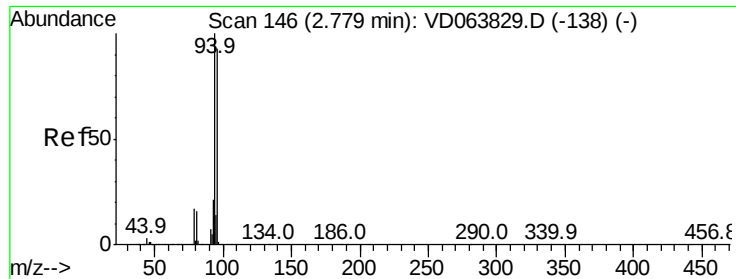
64 30.6 27.1 40.7



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 49.068 ug/l

RT: 2.78 min Scan# 146

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

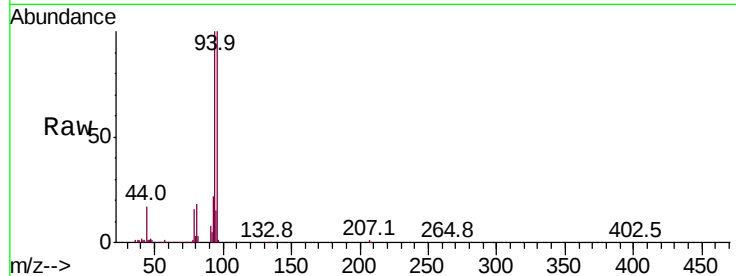
ClientSampleId :

Tot Ion: 94 Resp: 156234

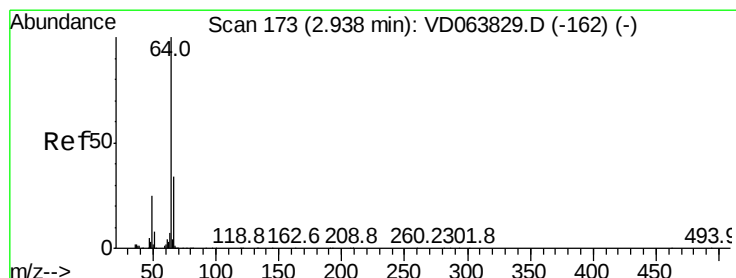
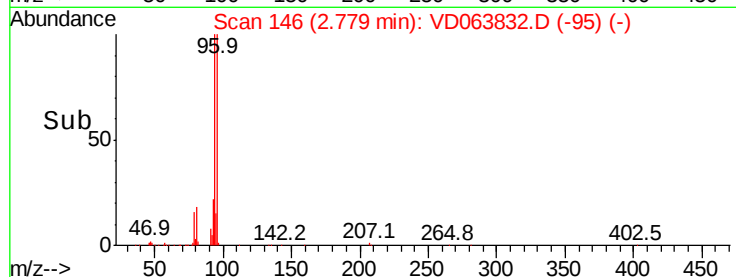
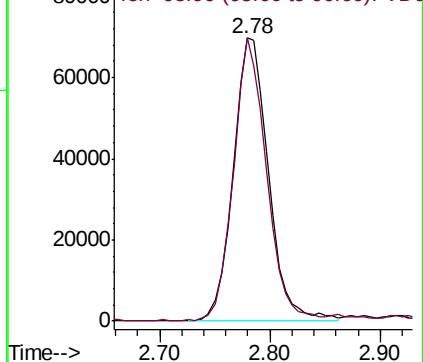
Ion Ratio Lower Upper

94 100

96 99.5 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VDC
Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 49.684 ug/l

RT: 2.94 min Scan# 173

Delta R.T. 0.00 min

Lab File: VD063832.D

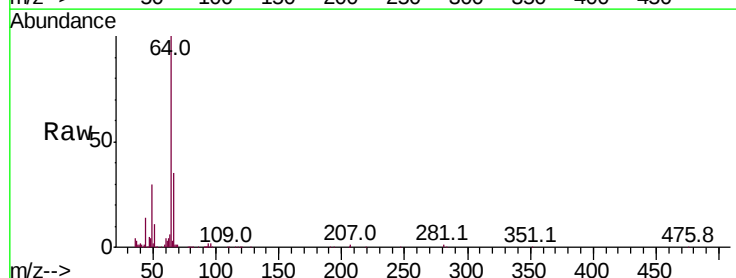
Acq: 25 Sep 2019 19:43

Tgt Ion: 64 Resp: 156049

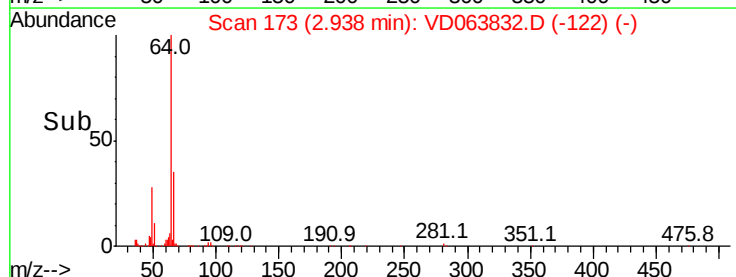
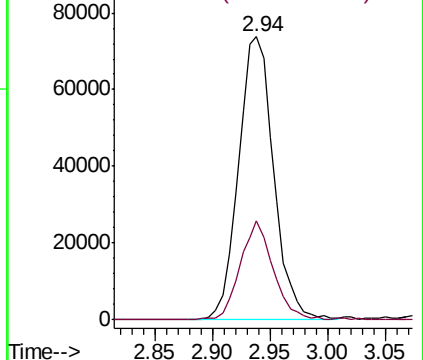
Ion Ratio Lower Upper

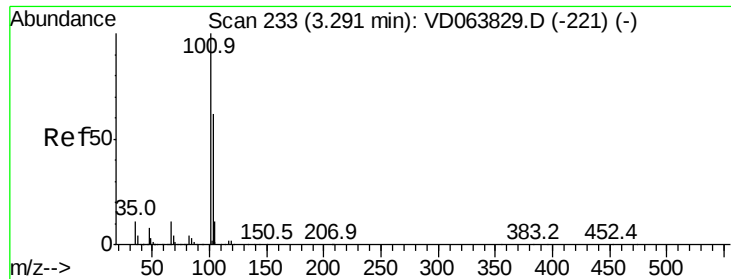
64 100

66 34.9 26.9 40.3



Abundance Ion 63.90 (63.60 to 64.60): VDC
Ion 65.90 (65.60 to 66.60): VDC



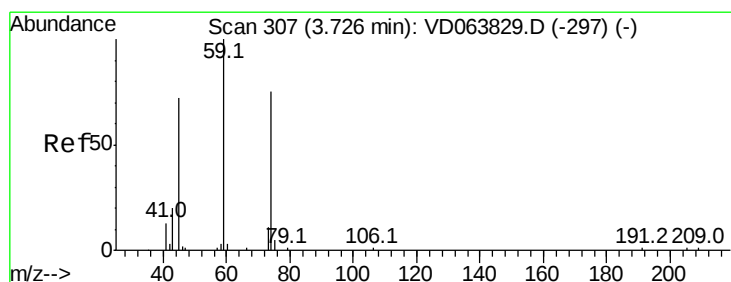
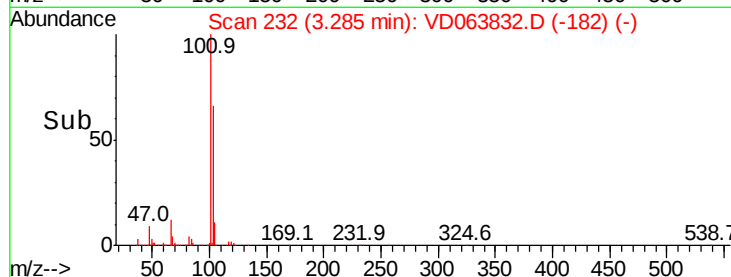
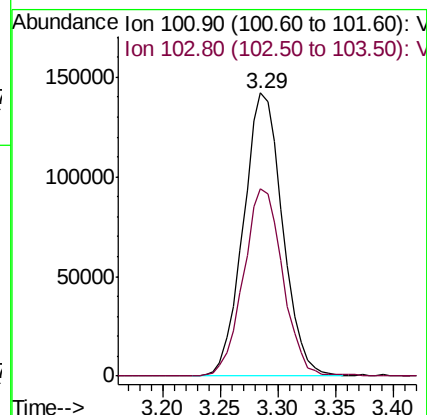
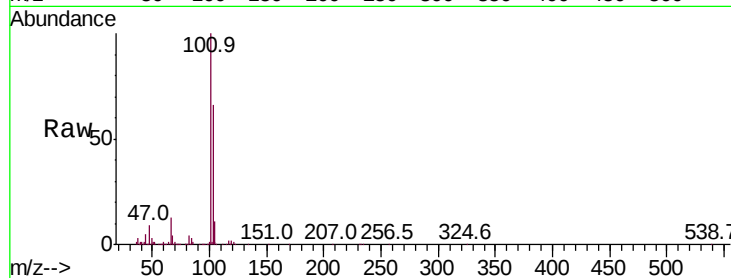


#7

Trichlorofluoromethane
 Concen: 45.812 ug/l
 RT: 3.29 min Scan# 232
 Delta R.T. -0.01 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

Instrument :
 MSVOA_D
 ClientSampleId :

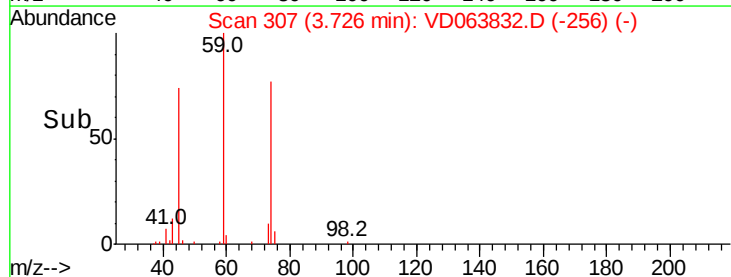
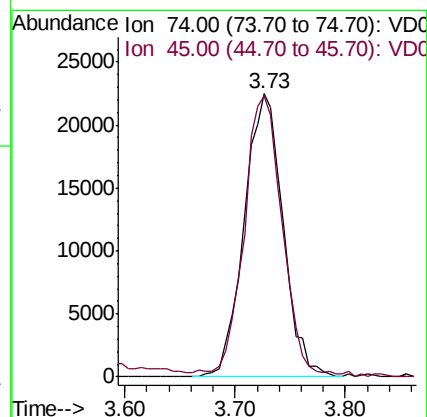
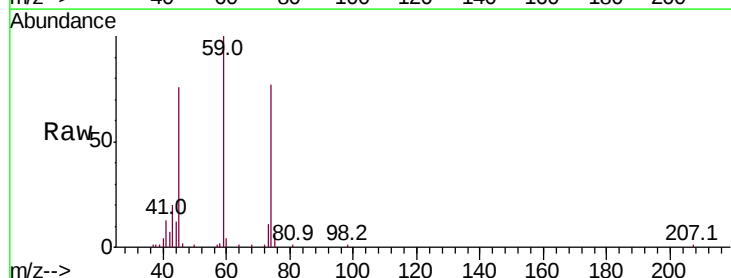
Tot Ion:101 Resp: 335186
 Ion Ratio Lower Upper
 101 100
 103 66.1 49.8 74.8

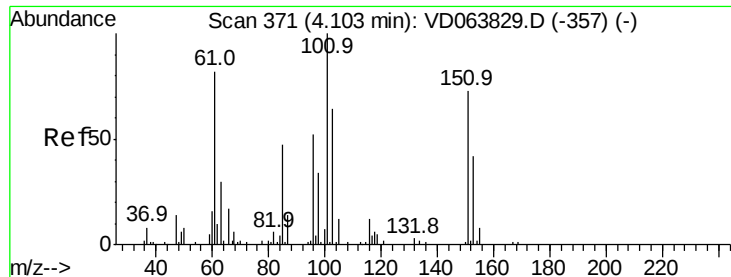


#8

Diethyl Ether
 Concen: 52.142 ug/l
 RT: 3.73 min Scan# 307
 Delta R.T. 0.00 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

Tgt Ion: 74 Resp: 55432
 Ion Ratio Lower Upper
 74 100
 45 98.8 48.9 146.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 50.338 ug/l

RT: 4.10 min Scan# 371

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

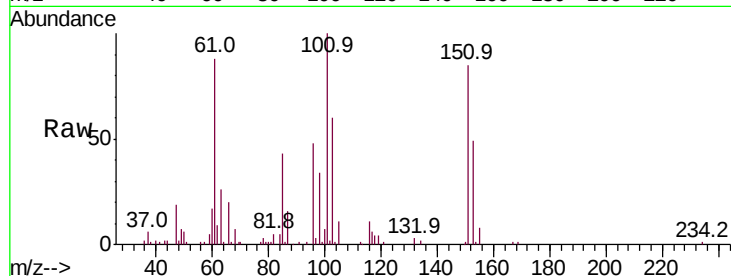
Tot Ion:101 Resp: 109256

Ion Ratio Lower Upper

101 100

85 45.0 37.8 56.6

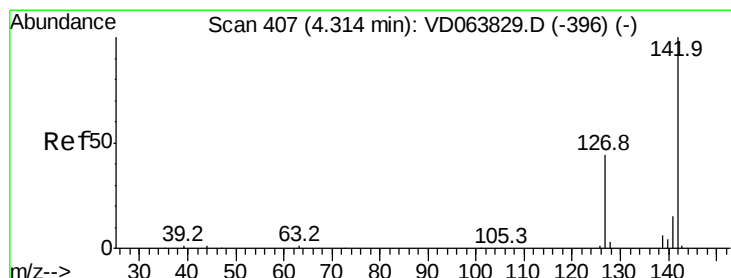
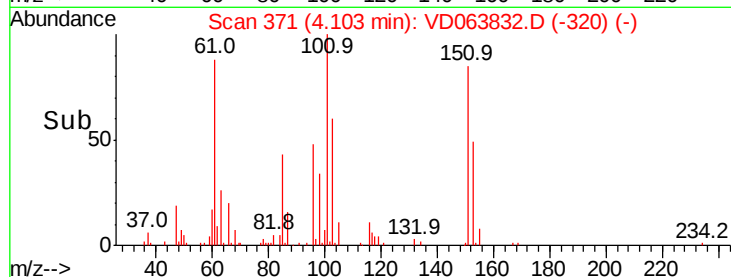
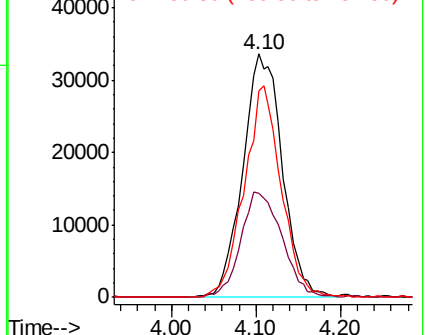
151 81.2 64.2 96.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 58.152 ug/l

RT: 4.31 min Scan# 407

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

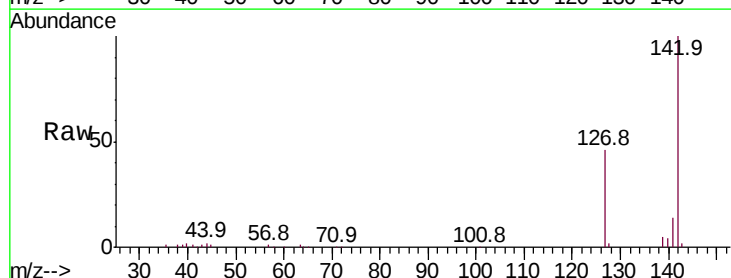
Tgt Ion:142 Resp: 150688

Ion Ratio Lower Upper

142 100

127 46.4 35.8 53.6

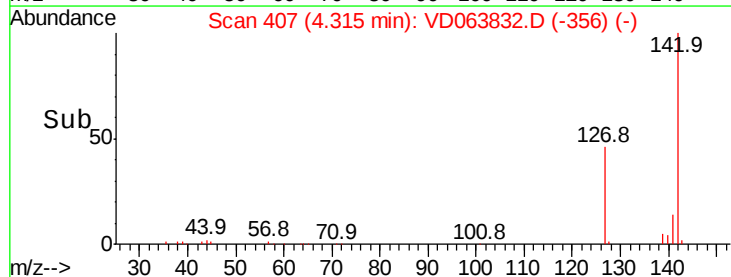
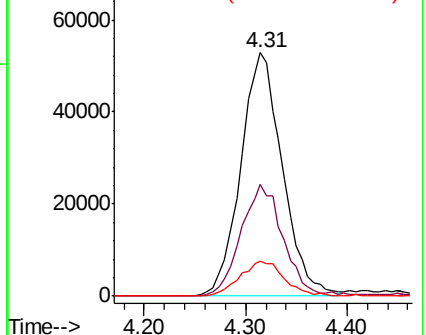
141 15.2 11.9 17.9

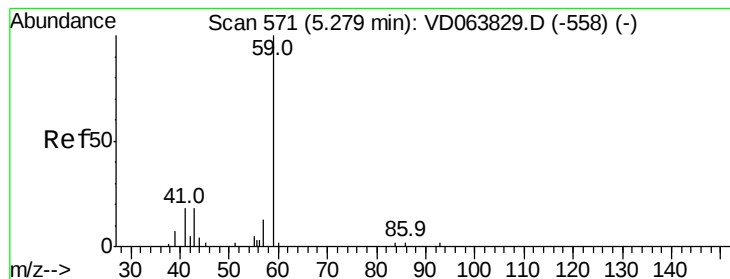


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 248.595 ug/l

RT: 5.28 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

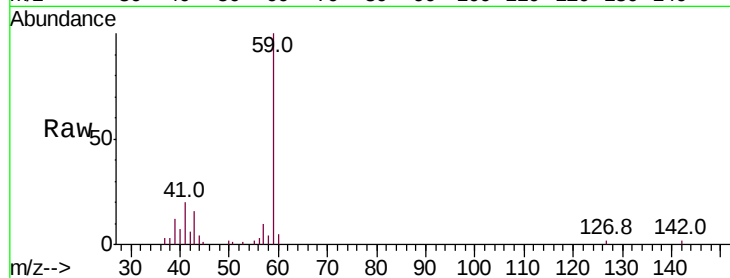
ClientSampled :

Tot Ion: 59 Resp: 41363

Ion Ratio Lower Upper

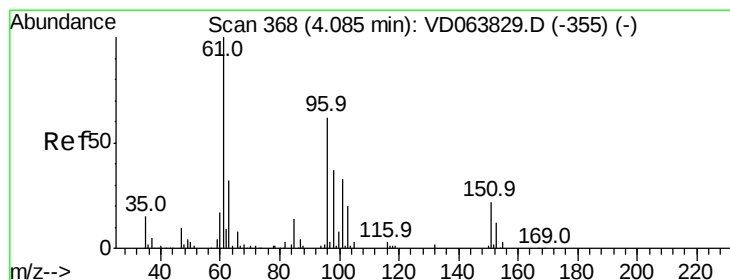
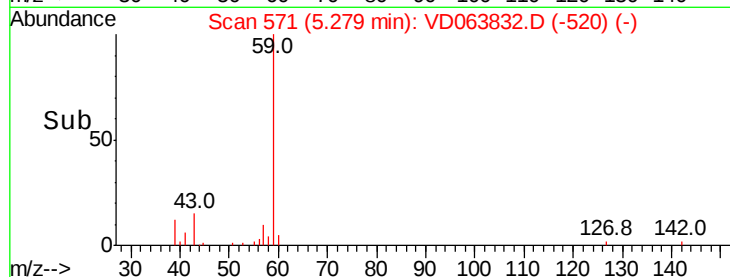
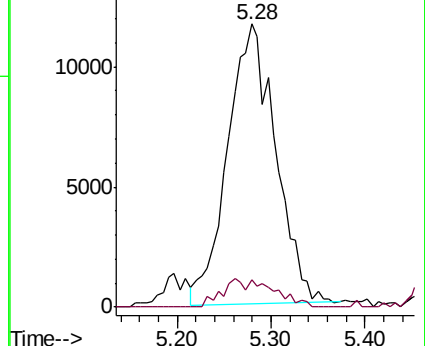
59 100

57 4.9 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC



#12

1,1-Dichloroethene

Concen: 48.540 ug/l

RT: 4.07 min Scan# 366

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

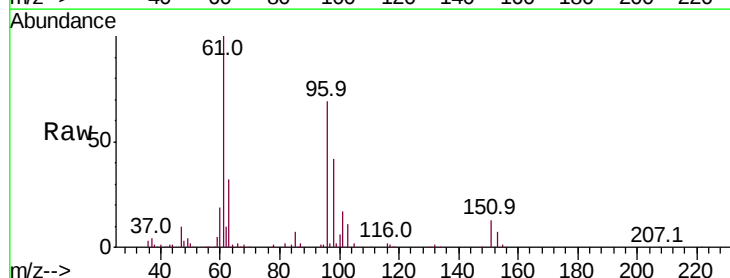
Tgt Ion: 96 Resp: 106346

Ion Ratio Lower Upper

96 100

61 144.2 129.0 193.4

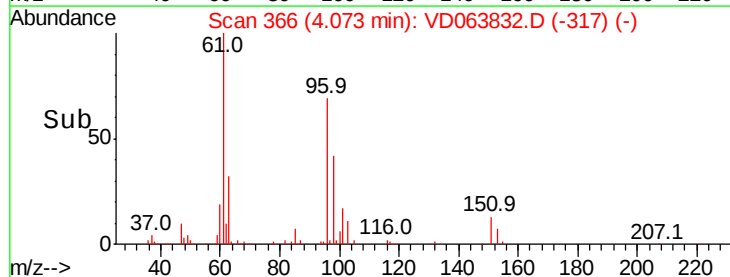
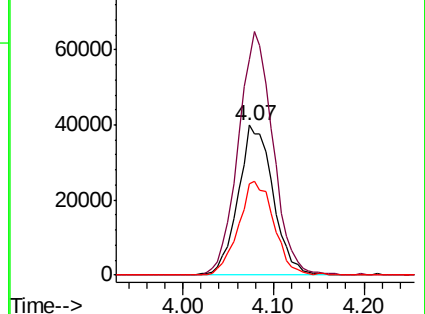
98 60.9 47.8 71.6

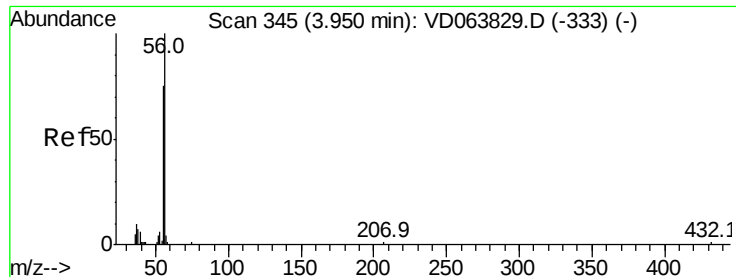


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#13

Acrolein

Concen: 251.846 ug/l

RT: 3.95 min Scan# 345

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

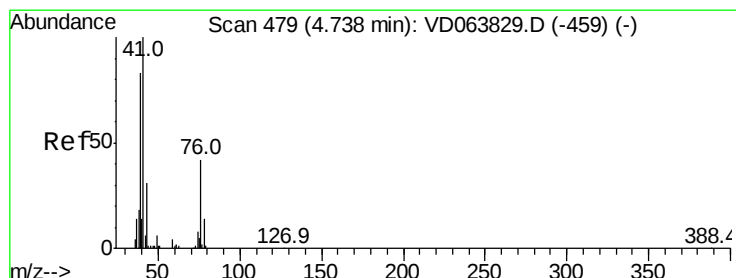
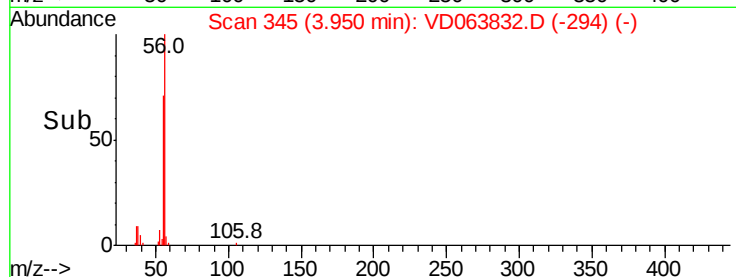
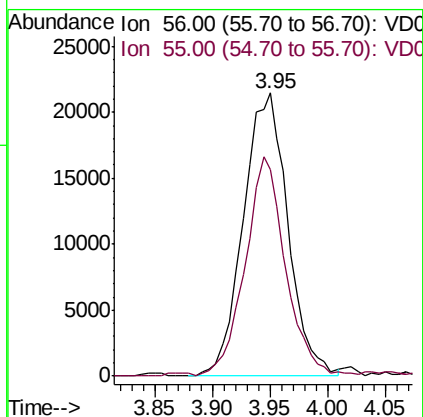
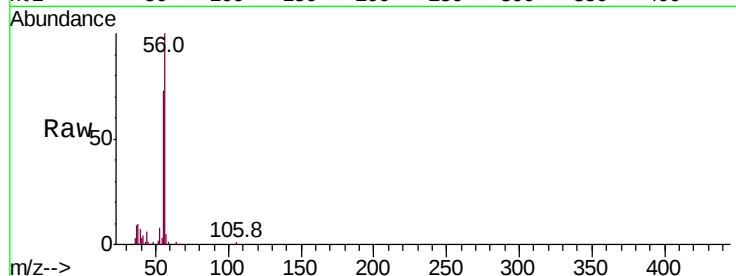
ClientSampleId :

Tot Ion: 56 Resp: 57720

Ion Ratio Lower Upper

56 100

55 70.4 55.0 82.6



#14

Allyl chloride

Concen: 47.483 ug/l

RT: 4.73 min Scan# 478

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

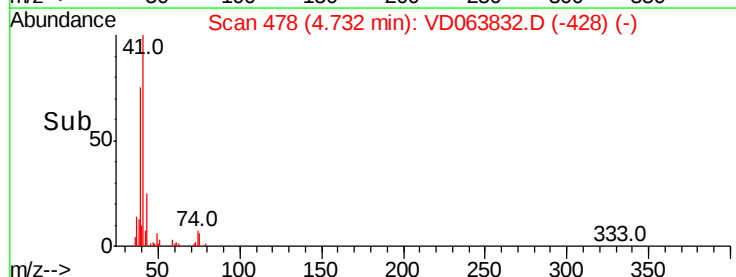
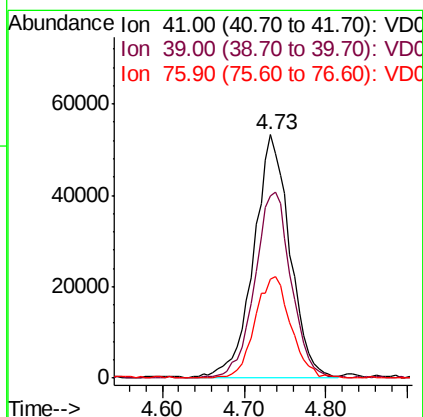
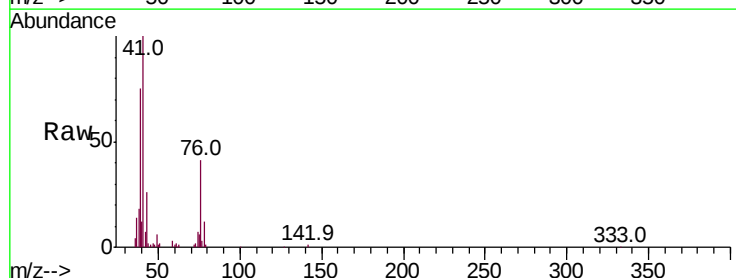
Tgt Ion: 41 Resp: 164438

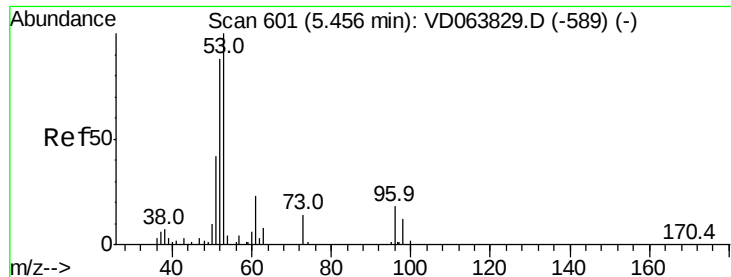
Ion Ratio Lower Upper

41 100

39 76.6 63.7 95.5

76 41.2 33.5 50.3





#15

Acrylonitrile

Concen: 247.148 ug/l

RT: 5.46 min Scan# 602

Delta R.T. 0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :
MSVOA_D
ClientSampled :

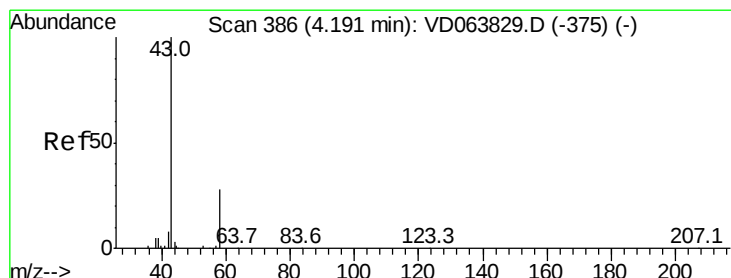
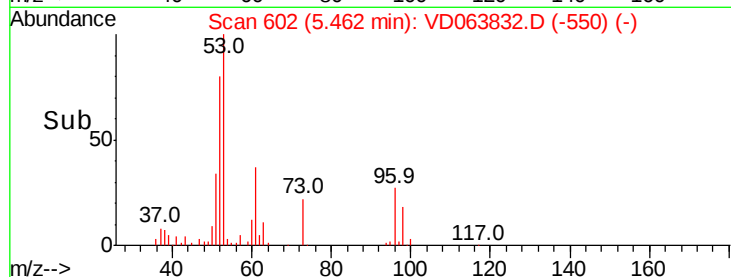
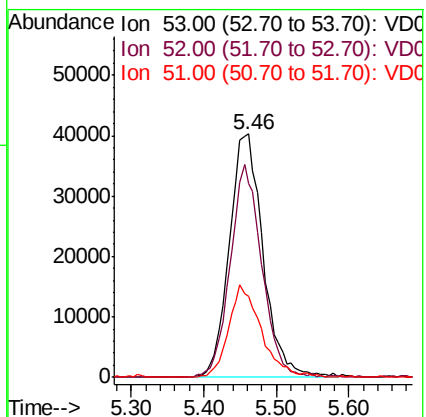
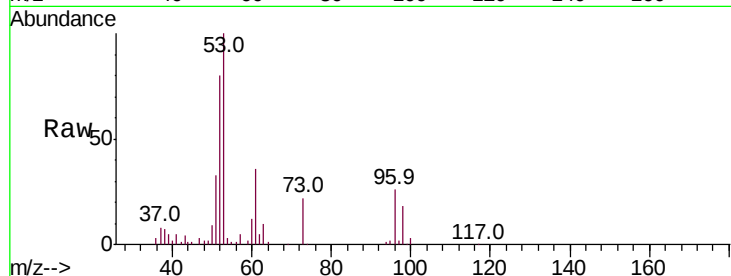
Tot Ion: 53 Resp: 130257

Ion Ratio Lower Upper

53 100

52 81.5 68.7 103.1

51 36.2 30.7 46.1



#16

Acetone

Concen: 249.403 ug/l

RT: 4.19 min Scan# 385

Delta R.T. -0.00 min

Lab File: VD063832.D

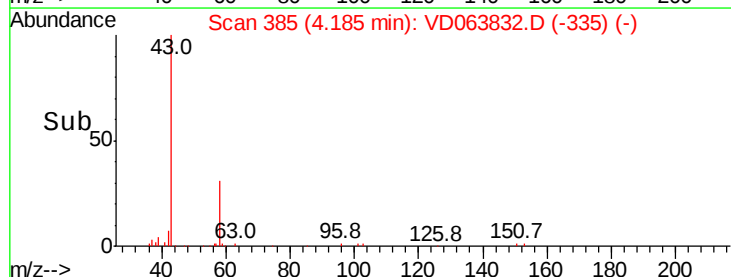
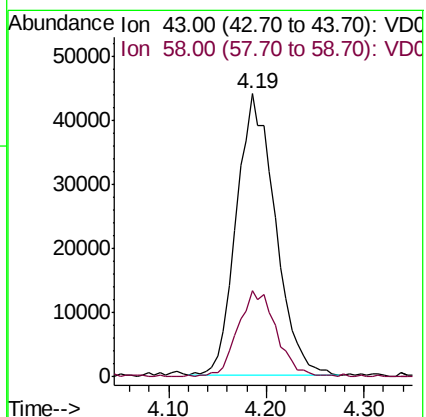
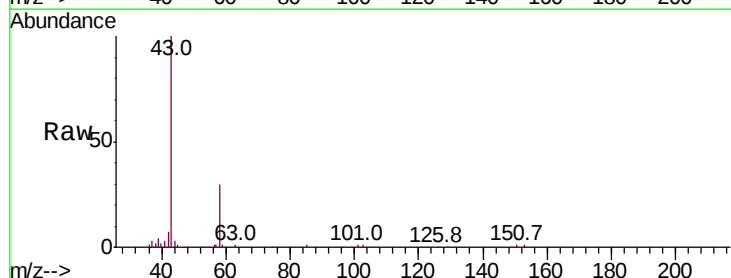
Acq: 25 Sep 2019 19:43

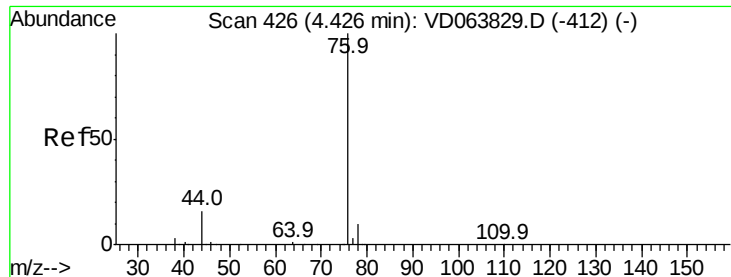
Tgt Ion: 43 Resp: 121347

Ion Ratio Lower Upper

43 100

58 30.7 22.6 34.0

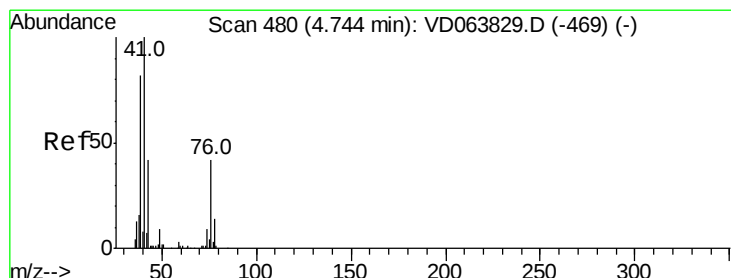
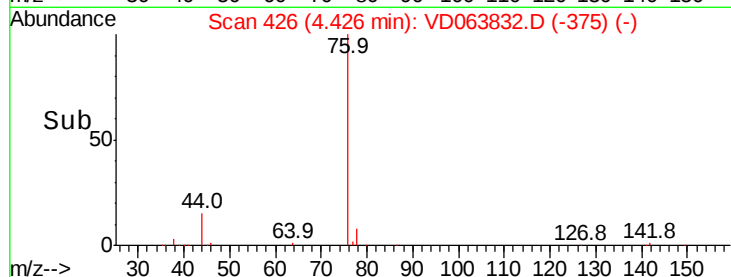
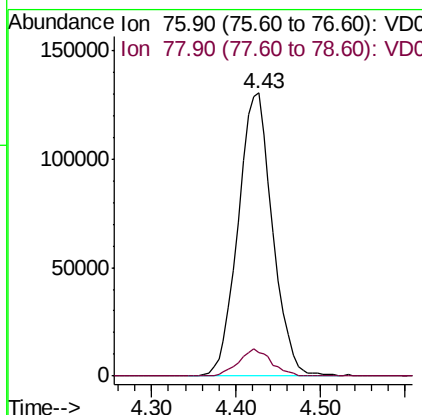
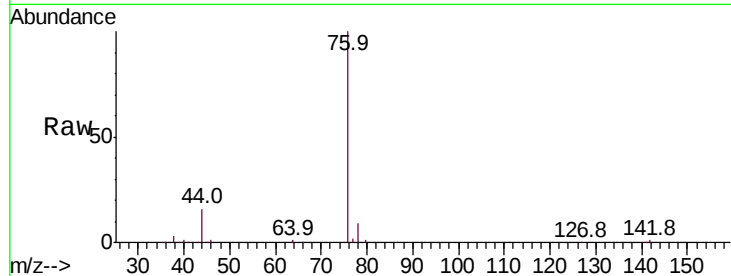




#17
Carbon Disulfide
Concen: 49.679 ug/l
RT: 4.43 min Scan# 426
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

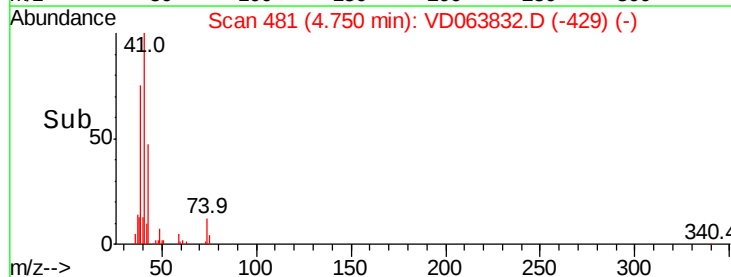
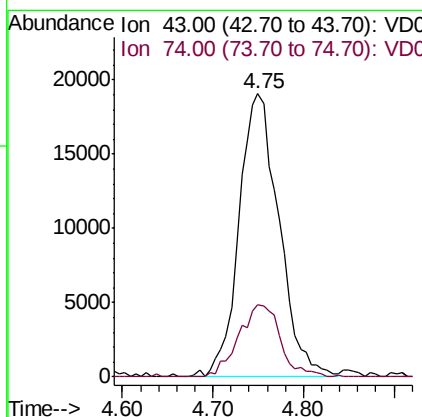
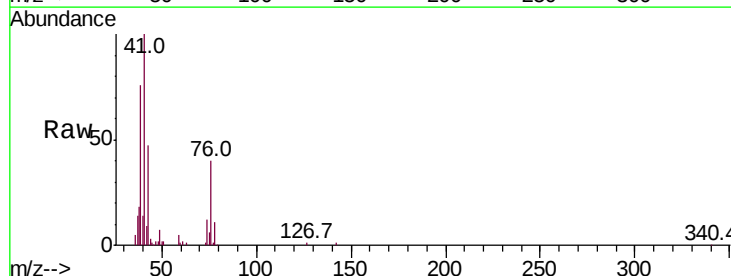
Instrument :
MSVOA_D
ClientSampleId :

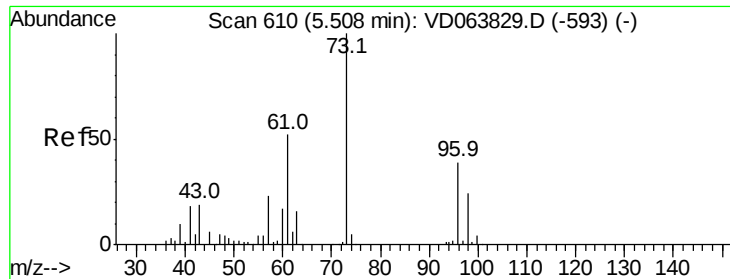
Tot Ion: 76 Resp: 367932
Ion Ratio Lower Upper
76 100
78 8.5 7.9 11.9



#18
Methyl Acetate
Concen: 50.104 ug/l
RT: 4.75 min Scan# 481
Delta R.T. 0.01 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion: 43 Resp: 58782
Ion Ratio Lower Upper
43 100
74 26.5 18.6 28.0

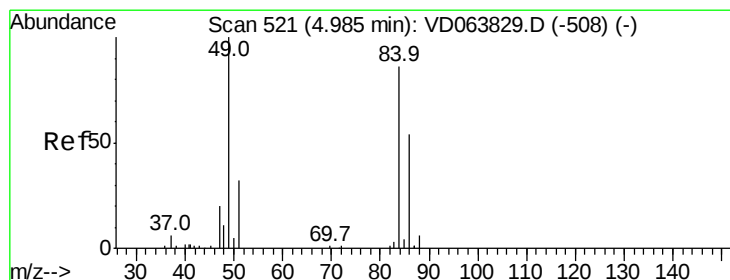
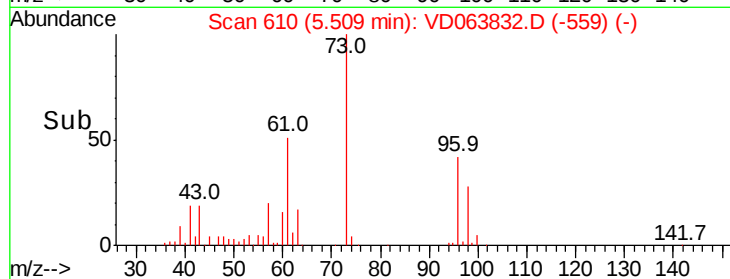
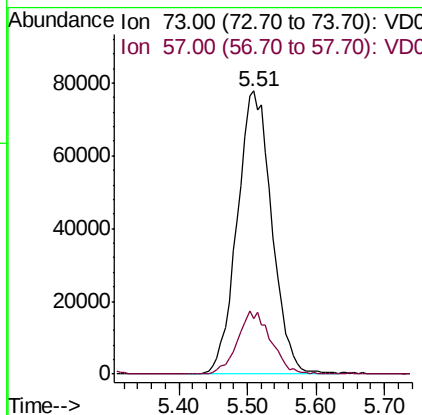
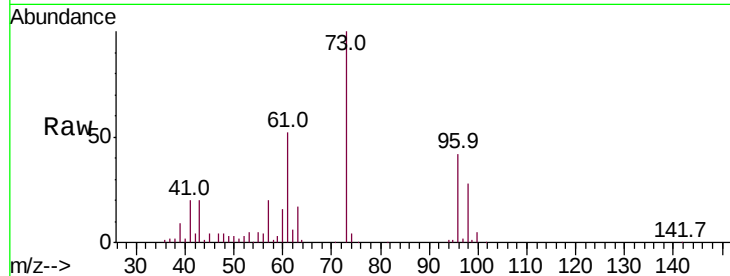




#19
Methvl tert-butvl Ether
Concen: 49.752 ug/l
RT: 5.51 min Scan# 610
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

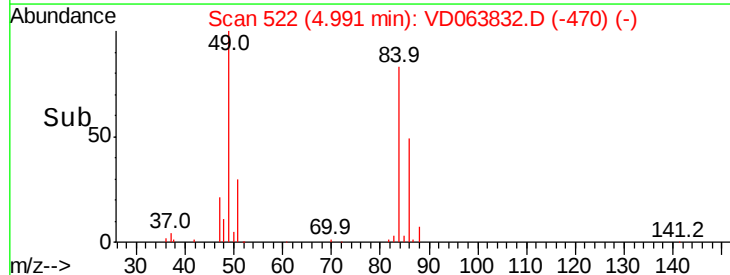
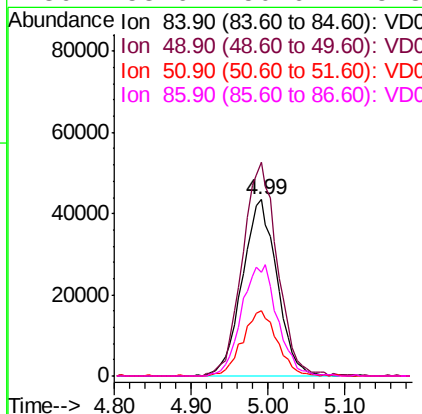
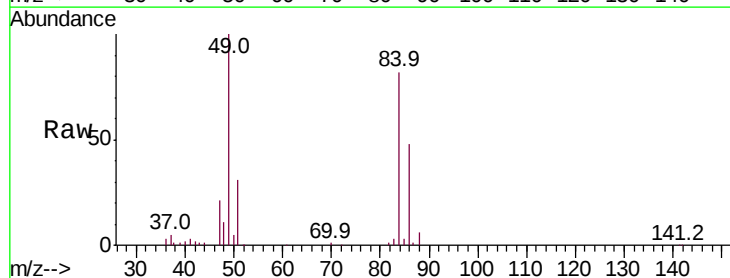
Instrument :
MSVOA_D
ClientSampleId :

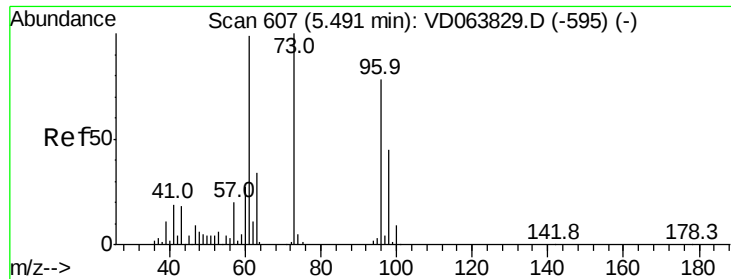
Tot Ion: 73 Resp: 272904
Ion Ratio Lower Upper
73 100
57 19.5 18.7 28.1



#20
Methylene Chloride
Concen: 51.924 ug/l
RT: 4.99 min Scan# 522
Delta R.T. 0.01 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion: 84 Resp: 137378
Ion Ratio Lower Upper
84 100
49 121.3 93.6 140.4
51 37.0 29.8 44.6
86 58.6 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 51.263 ug/l

RT: 5.49 min Scan# 607

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

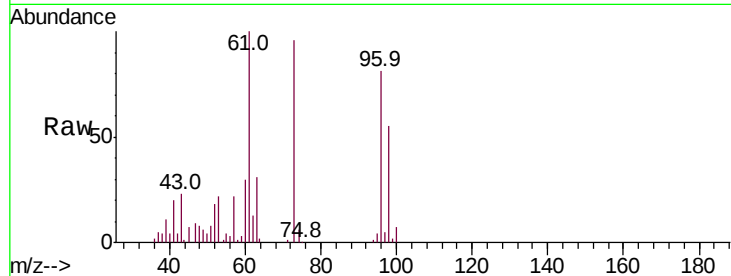
Tot Ion: 96 Resp: 130730

Ion Ratio Lower Upper

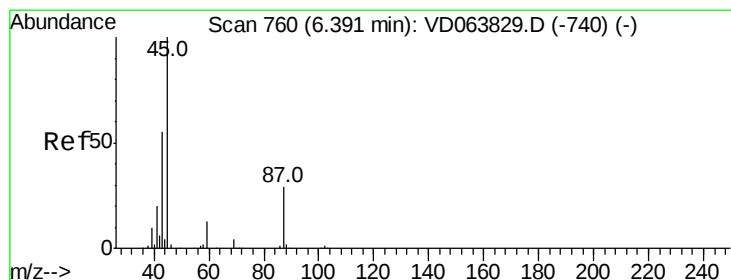
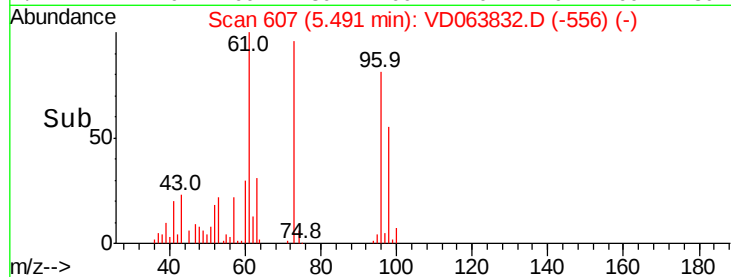
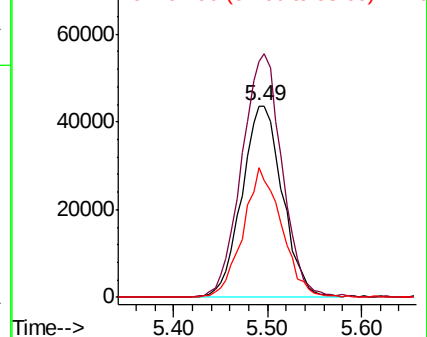
96 100

61 123.5 101.3 151.9

98 68.0 45.4 68.2



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



#22

Diisopropyl ether

Concen: 47.720 ug/l

RT: 6.39 min Scan# 760

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Tgt Ion: 45 Resp: 341319

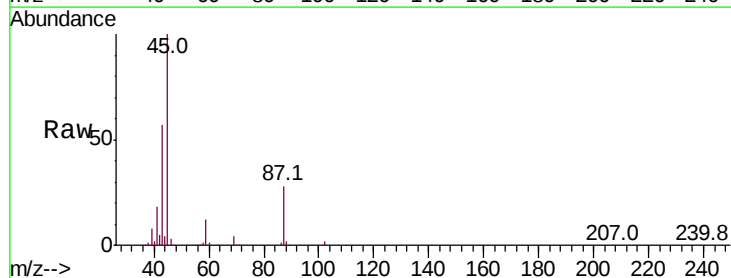
Ion Ratio Lower Upper

45 100

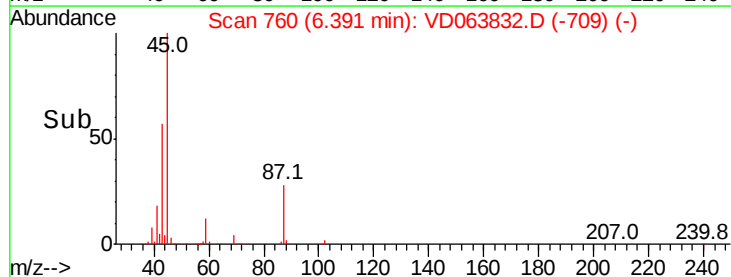
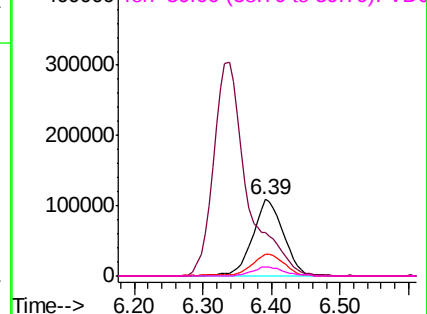
43 56.5 44.2 66.2

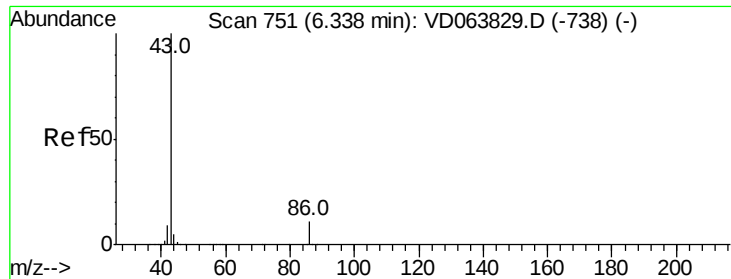
87 28.0 23.9 35.9

59 11.5 10.0 15.0



Abundance Ion 45.00 (44.70 to 45.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 59.00 (58.70 to 59.70): VDC





#23

Vinyl Acetate

Concen: 244.070 ug/l

RT: 6.34 min Scan# 751

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

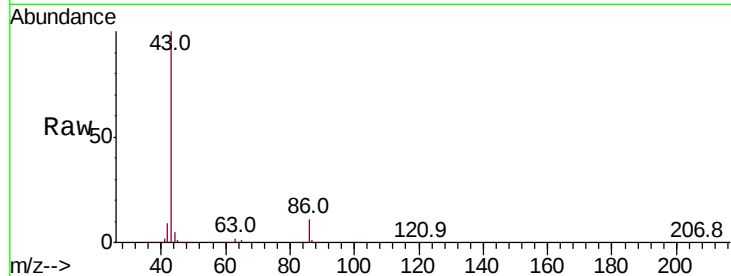
ClientSampleId :

Tot Ion: 43 Resp: 1032550

Ion Ratio Lower Upper

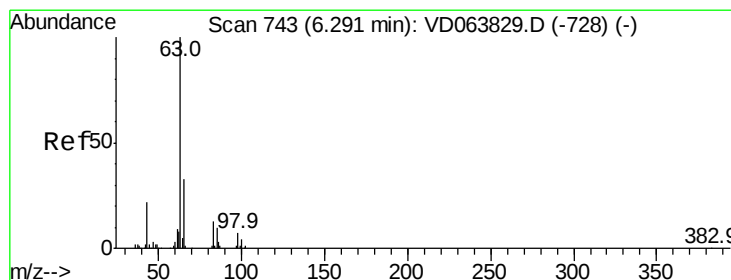
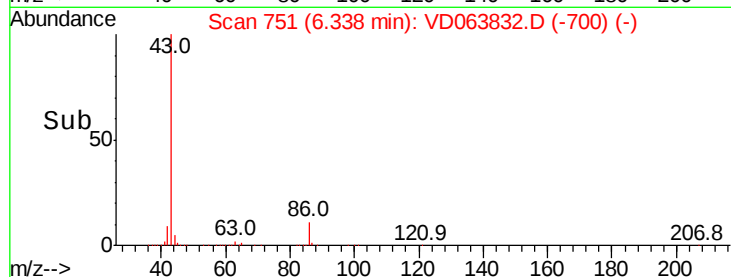
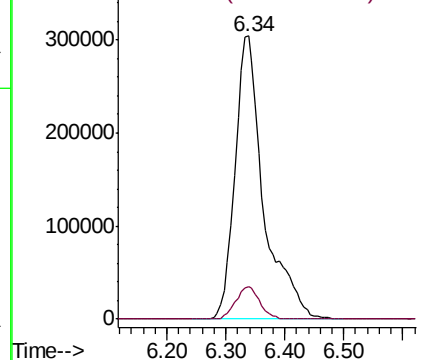
43 100

86 11.3 8.8 13.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC



#24

1,1-Dichloroethane

Concen: 49.633 ug/l

RT: 6.29 min Scan# 743

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

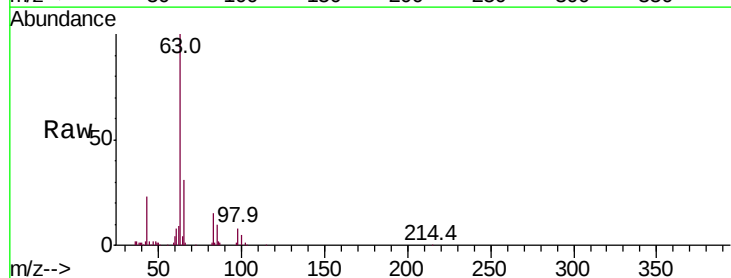
Tgt Ion: 63 Resp: 215676

Ion Ratio Lower Upper

63 100

98 8.0 3.5 10.5

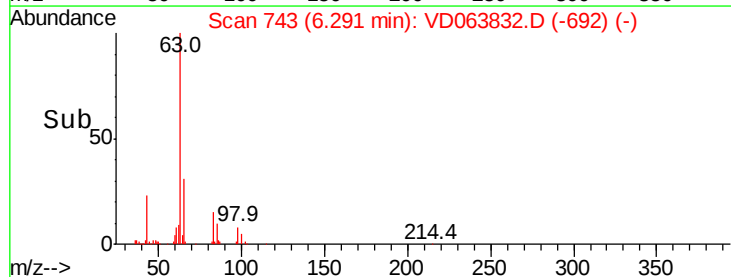
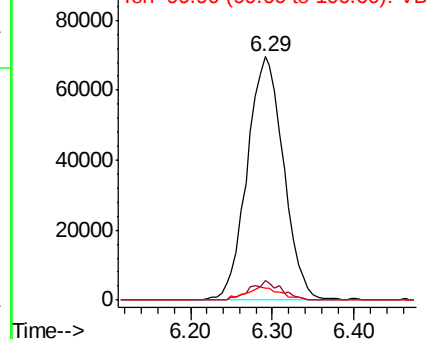
100 4.9 2.0 6.0

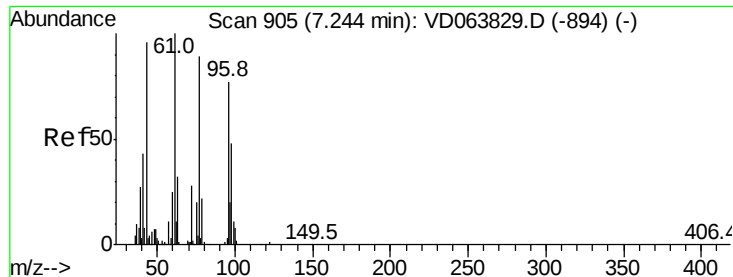


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 230.959 ug/l

RT: 7.25 min Scan# 906

Delta R.T. 0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

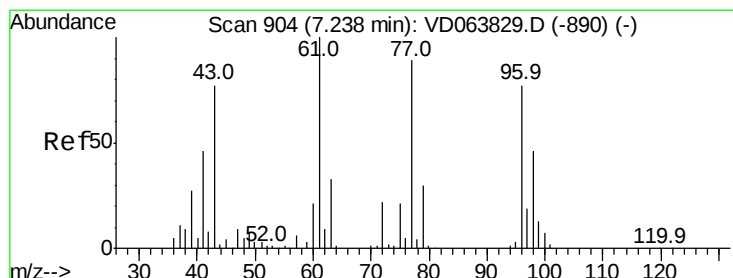
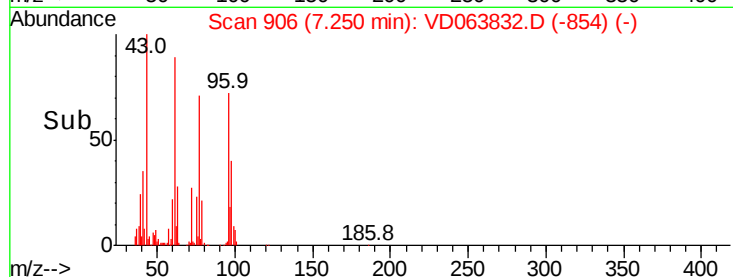
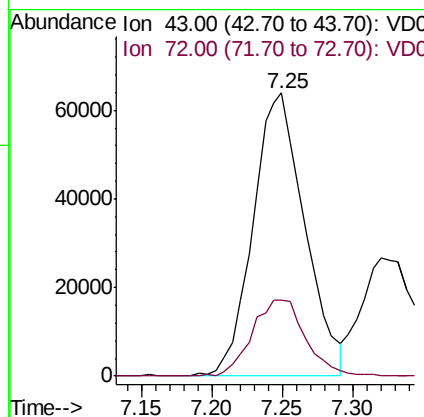
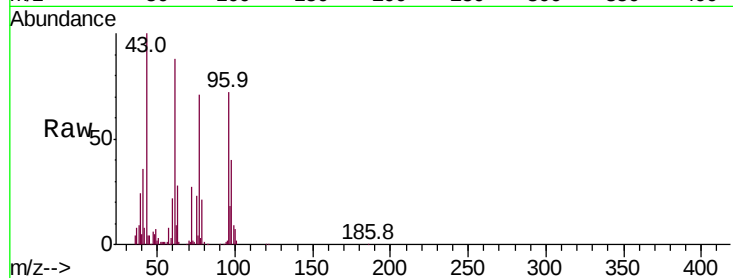
Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 163740

Ion Ratio Lower Upper

43 100

72 27.0 23.5 35.3



#26

2,2-Dichloropropane

Concen: 47.050 ug/l

RT: 7.24 min Scan# 904

Delta R.T. 0.00 min

Lab File: VD063832.D

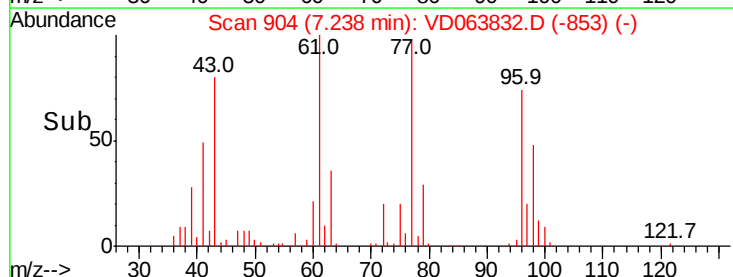
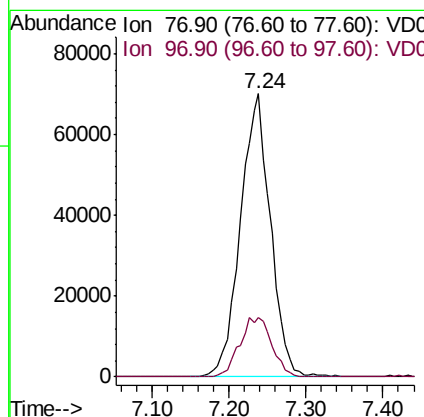
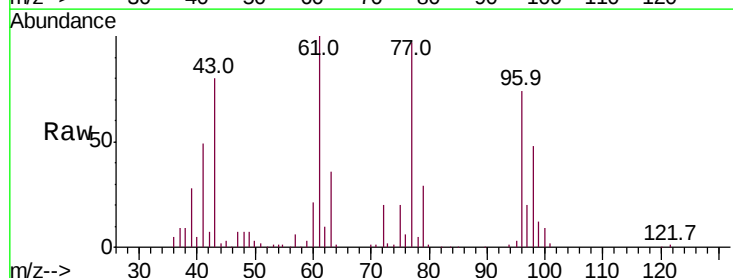
Acq: 25 Sep 2019 19:43

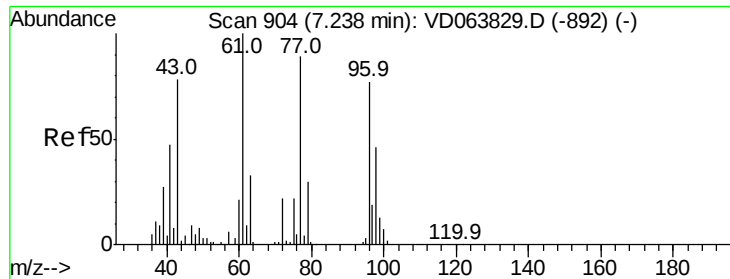
Tgt Ion: 77 Resp: 191208

Ion Ratio Lower Upper

77 100

97 22.4 10.9 32.7



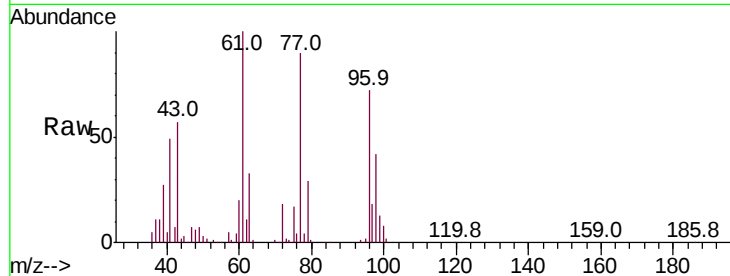


#27

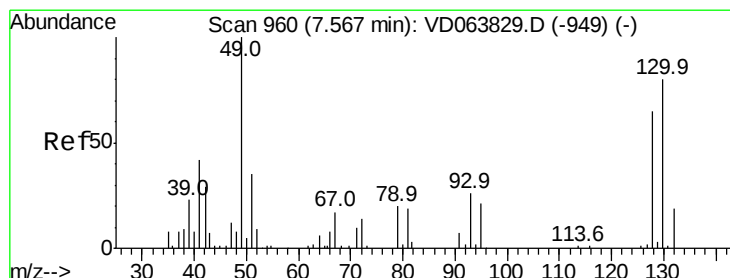
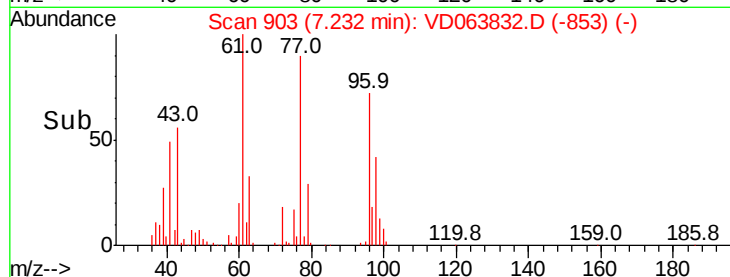
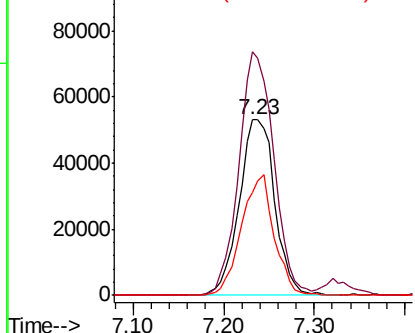
cis-1,2-Dichloroethene
Concen: 50.602 ug/l
RT: 7.23 min Scan# 903
Delta R.T. -0.01 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 96 Resp: 144801
Ion Ratio Lower Upper
96 100
61 136.5 0.0 275.6
98 62.9 0.0 130.2



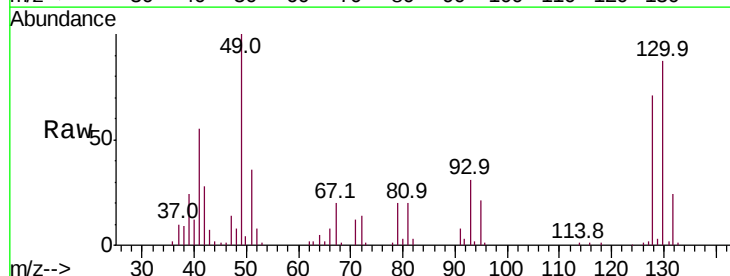
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



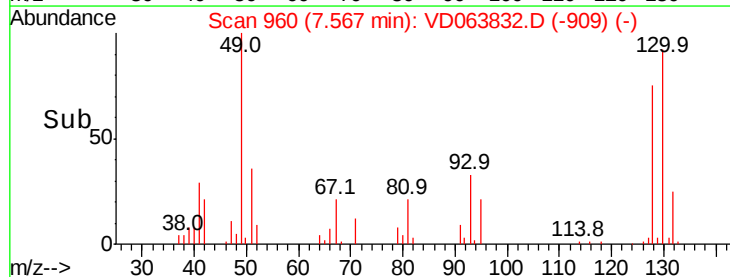
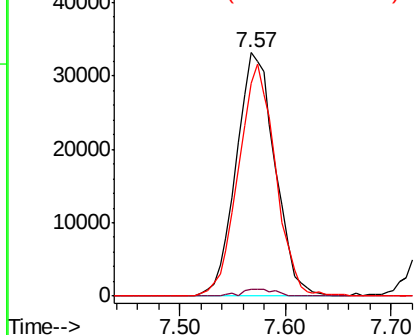
#28

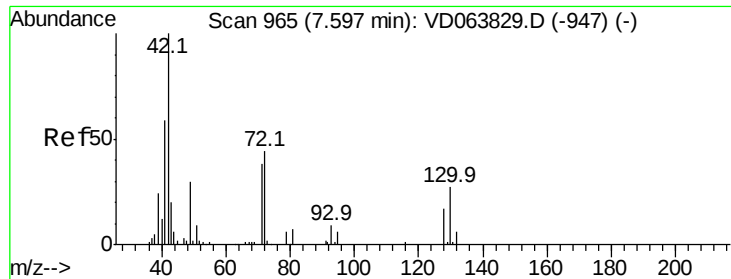
Bromochloromethane
Concen: 49.591 ug/l
RT: 7.57 min Scan# 960
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion: 49 Resp: 84560
Ion Ratio Lower Upper
49 100
129 2.5 0.0 2.6
130 91.0 67.0 100.4



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





#29

Tetrahydrofuran

Concen: 236.467 ug/l

RT: 7.60 min Scan# 965

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampled :

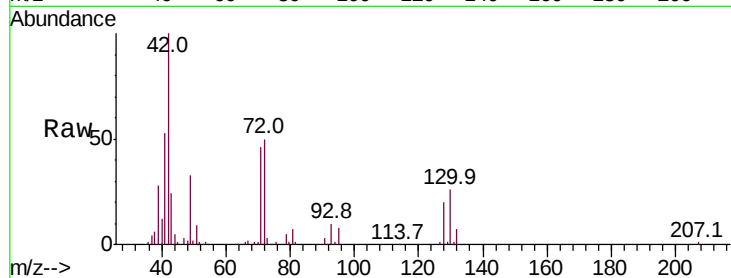
Tot Ion: 42 Resp: 100451

Ion Ratio Lower Upper

42 100

72 46.8 37.3 55.9

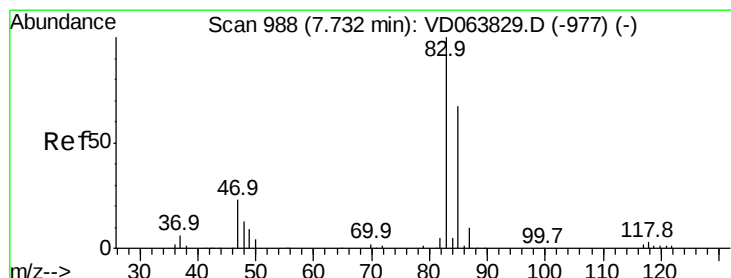
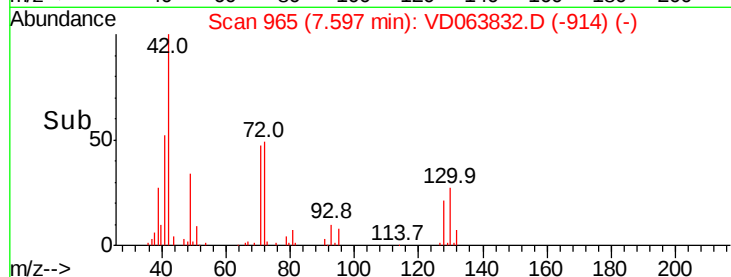
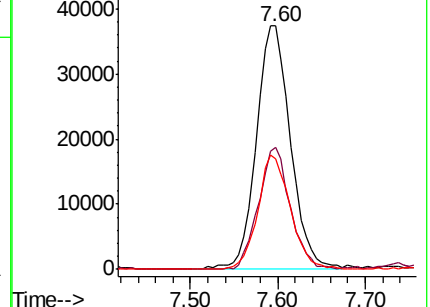
71 44.8 33.4 50.2



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: 48.905 ug/l

RT: 7.73 min Scan# 988

Delta R.T. 0.00 min

Lab File: VD063832.D

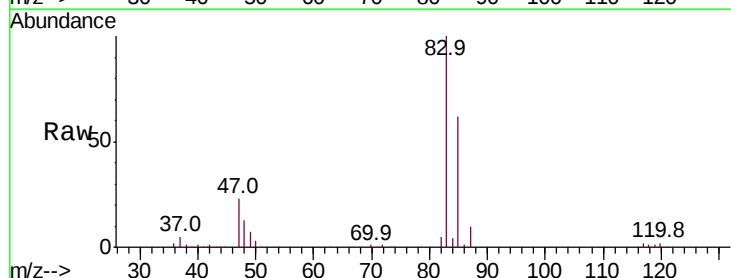
Acq: 25 Sep 2019 19:43

Tgt Ion: 83 Resp: 230824

Ion Ratio Lower Upper

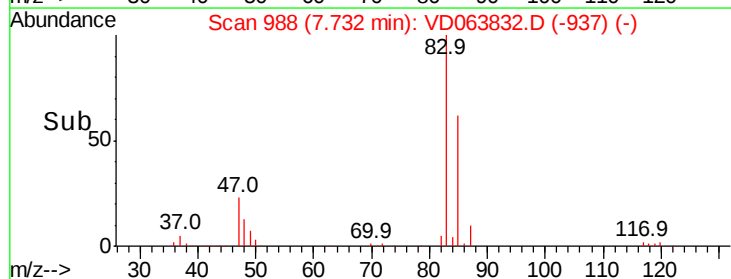
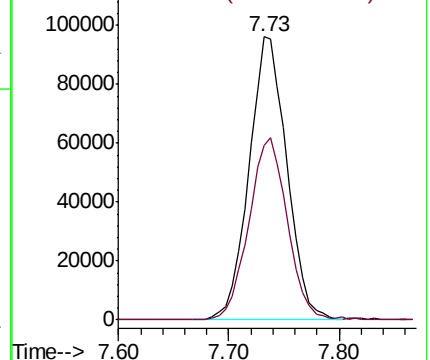
83 100

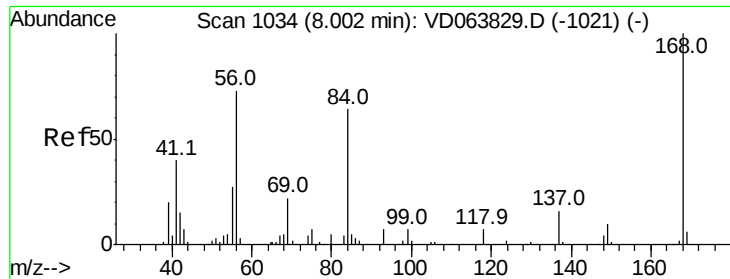
85 61.9 53.4 80.2



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

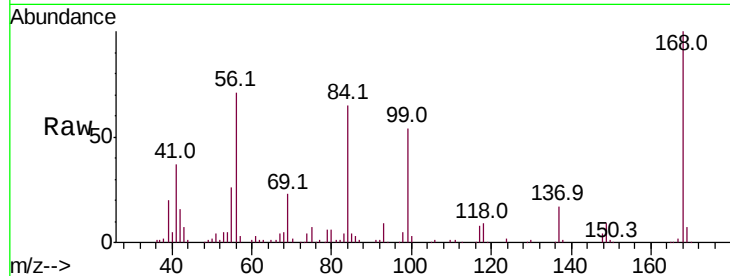




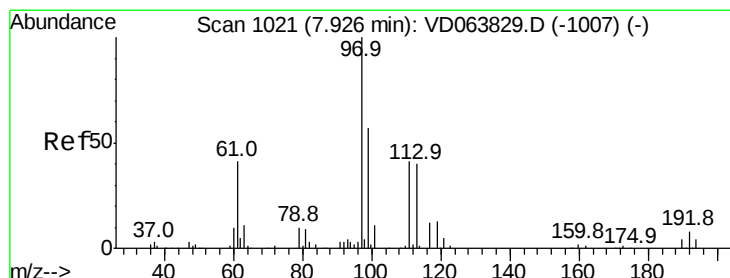
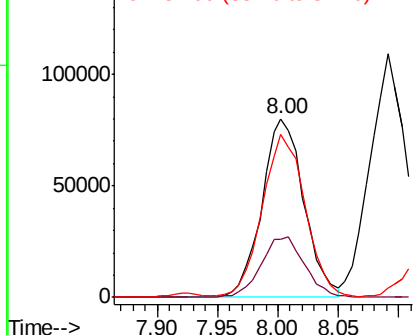
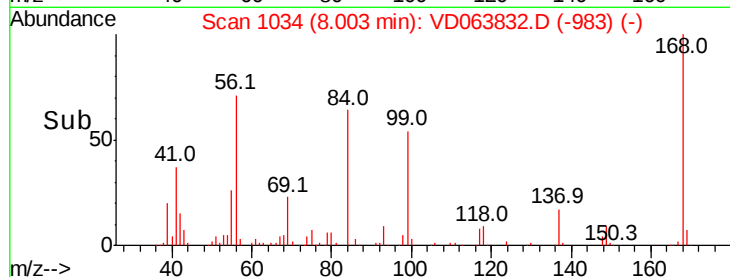
#31
Cyclohexane
Concen: 51.501 ug/l
RT: 8.00 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 192463
Ion Ratio Lower Upper
56 100
69 32.5 23.1 34.7
84 88.6 69.7 104.5

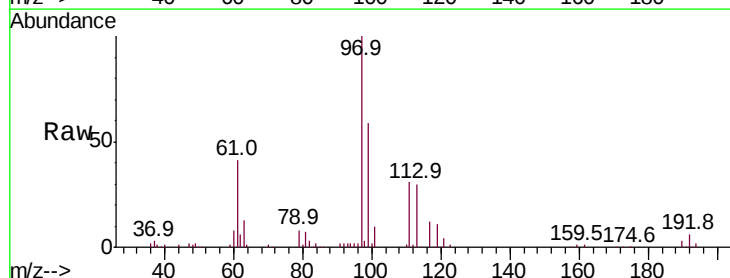


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

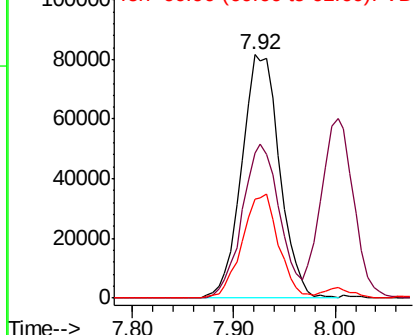
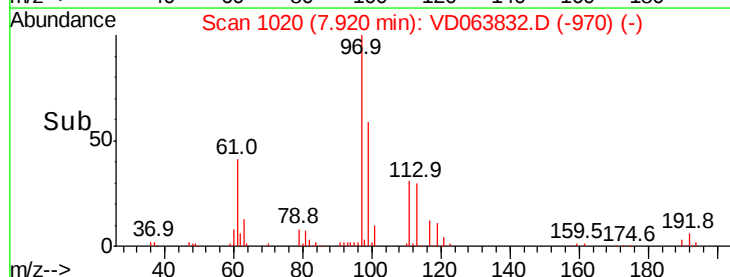


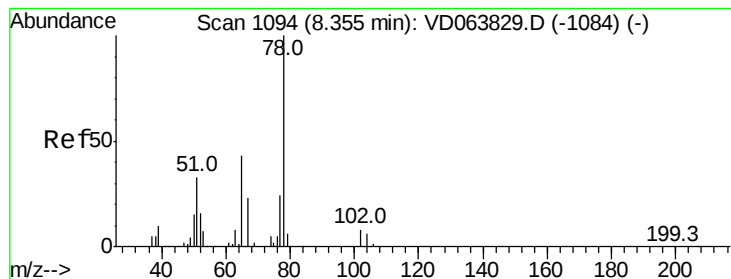
#32
1,1,1-Trichloroethane
Concen: 49.750 ug/l
RT: 7.92 min Scan# 1020
Delta R.T. -0.01 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion: 97 Resp: 212325
Ion Ratio Lower Upper
97 100
99 62.6 52.9 79.3
61 41.2 35.8 53.8



Abundance Ion 96.90 (96.60 to 97.60): VDC
Ion 98.90 (98.60 to 99.60): VDC
Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 53.546 ug/l

RT: 8.36 min Scan# 1094

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

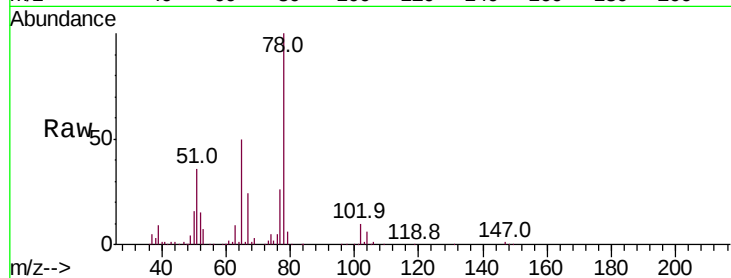
ClientSampleId :

Tot Ion: 65 Resp: 129361

Ion Ratio Lower Upper

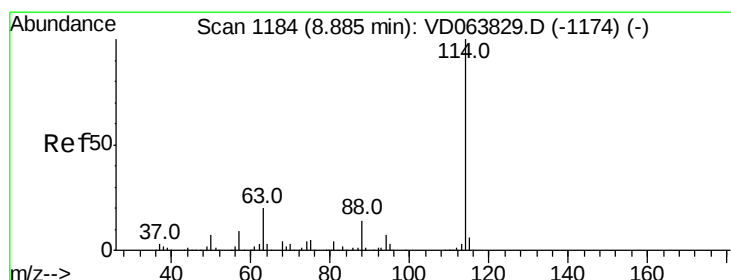
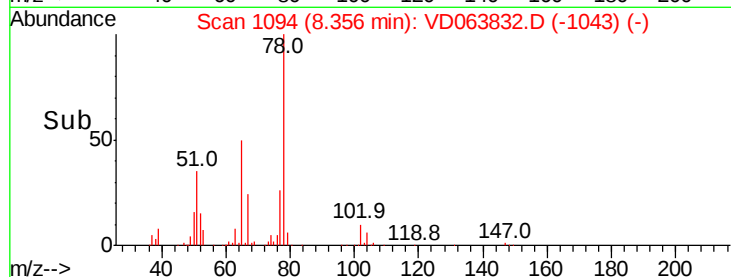
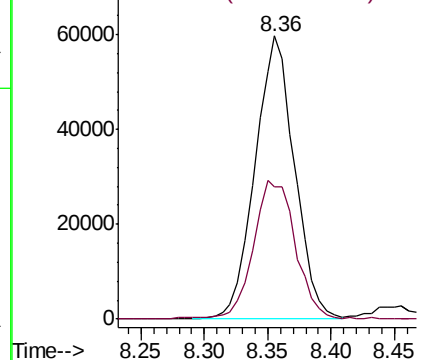
65 100

67 51.9 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.88 min Scan# 1184

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

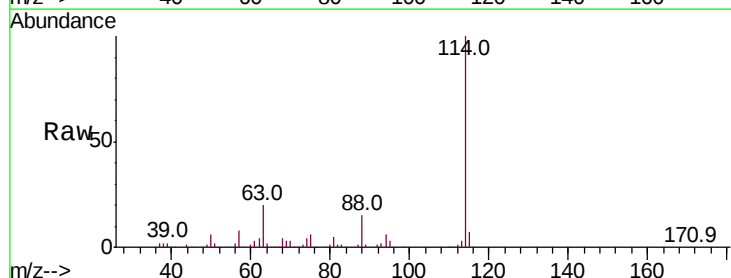
Tgt Ion: 114 Resp: 400986

Ion Ratio Lower Upper

114 100

63 19.9 0.0 39.2

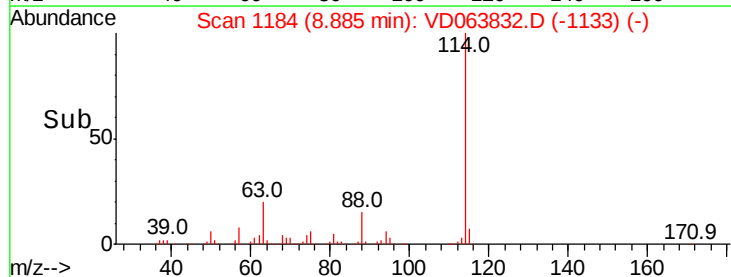
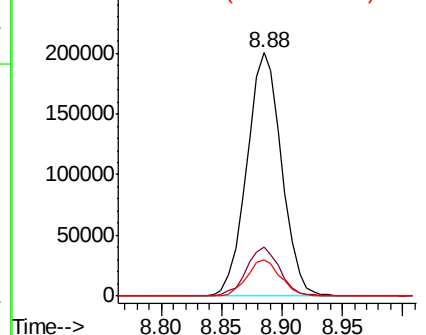
88 14.9 0.0 28.4

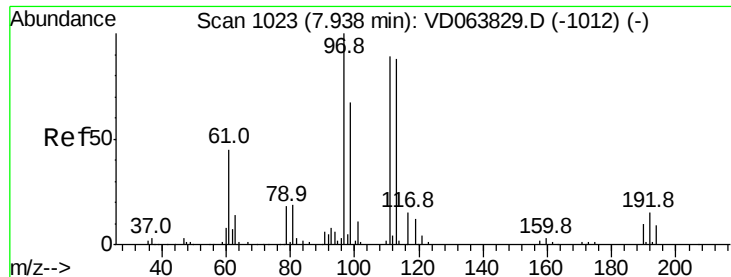


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

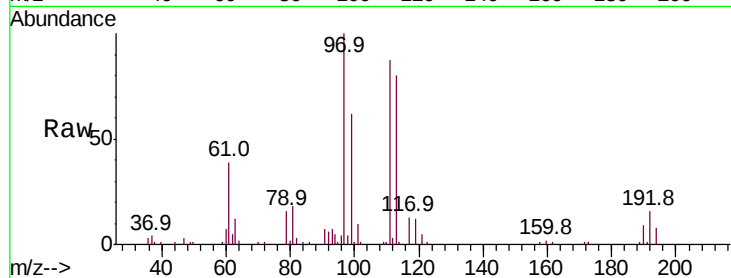




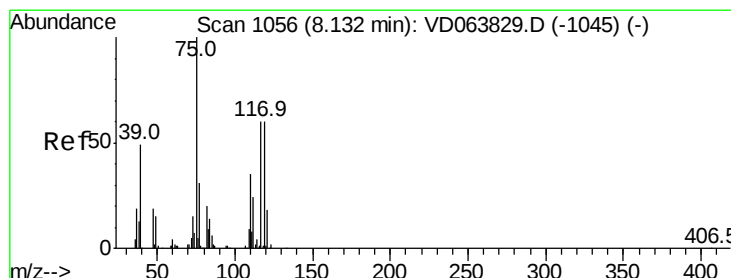
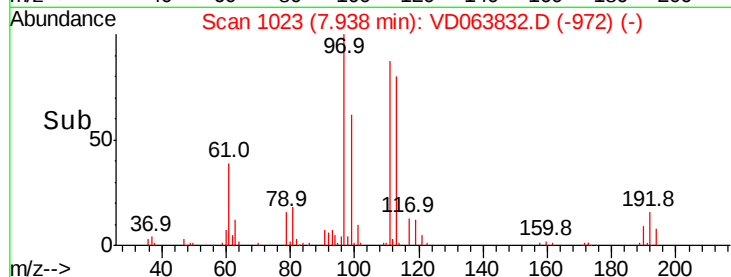
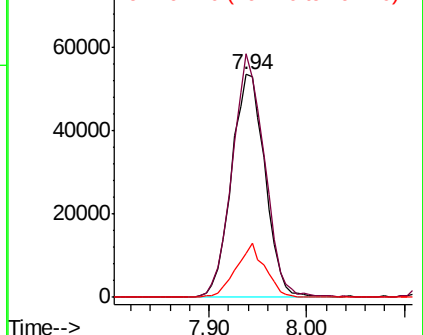
#35
 Dibromofluoromethane
 Concen: 50.584 ug/l
 RT: 7.94 min Scan# 1023
 Delta R.T. 0.00 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	105.0	77.7	116.5
192	21.1	15.9	23.9

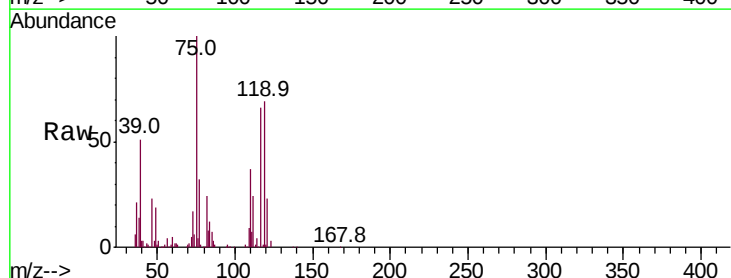


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

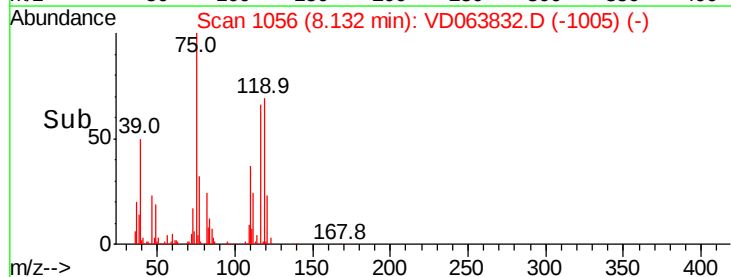
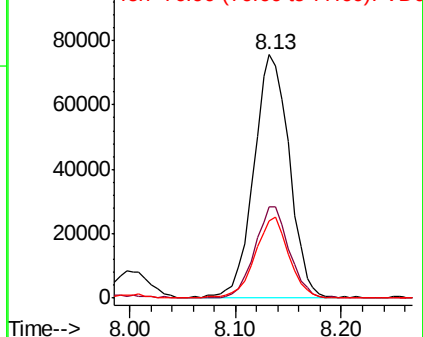


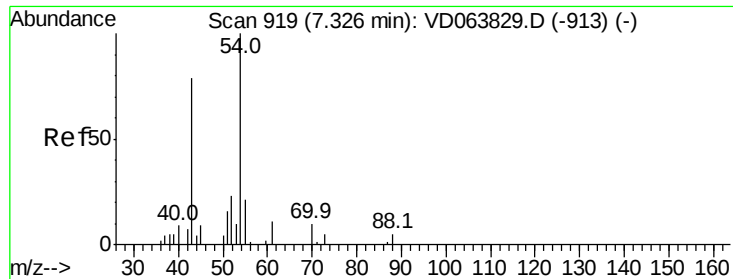
#36
 1,1-Dichloropropene
 Concen: 48.377 ug/l
 RT: 8.13 min Scan# 1056
 Delta R.T. 0.00 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.2	17.5	52.5
77	31.6	24.9	37.3



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

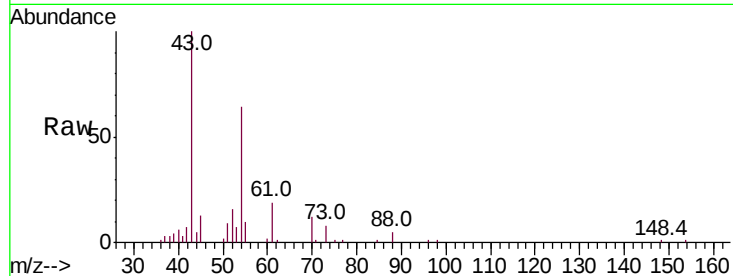




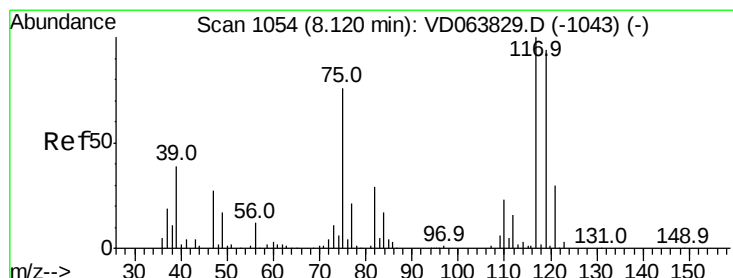
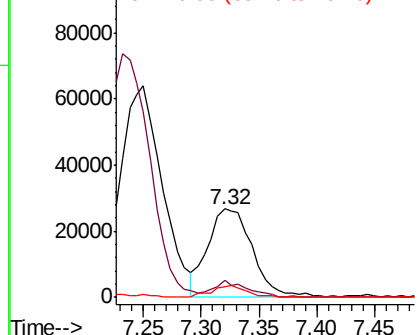
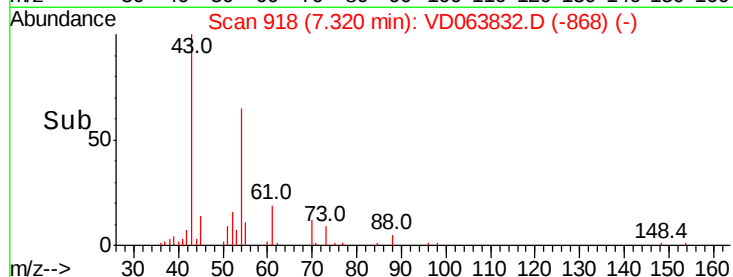
#37
Ethyl Acetate
Concen: 52.143 ug/l
RT: 7.32 min Scan# 918
Delta R.T. -0.01 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 43 Resp: 70955
Ion Ratio Lower Upper
43 100
61 14.4 12.7 19.1
70 10.9 8.3 12.5

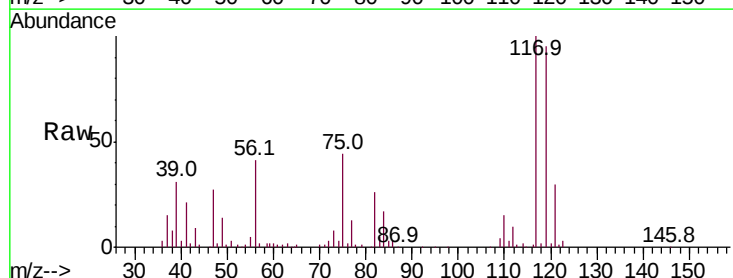


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

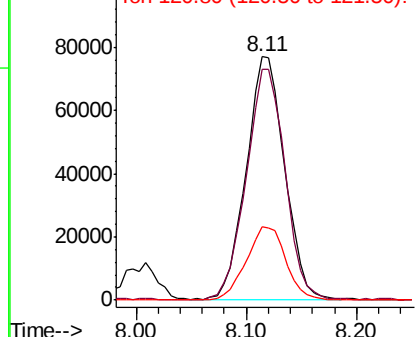
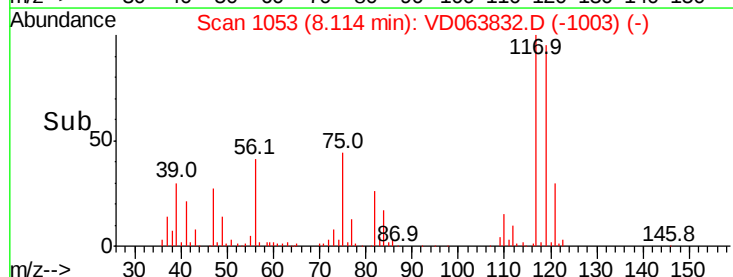


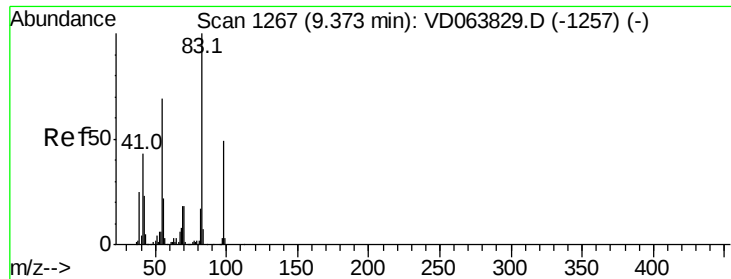
#38
Carbon Tetrachloride
Concen: 49.243 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion: 117 Resp: 187462
Ion Ratio Lower Upper
117 100
119 95.3 75.2 112.8
121 30.4 23.9 35.9



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

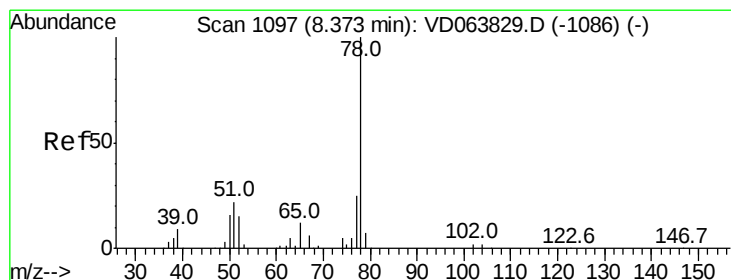
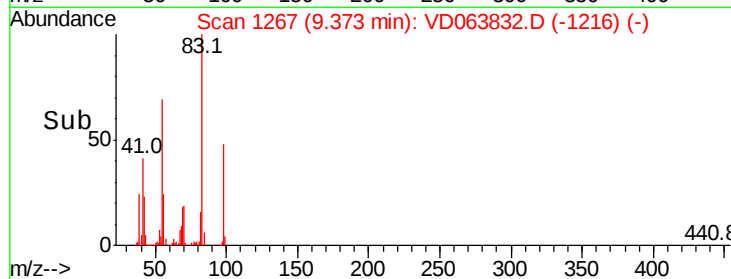
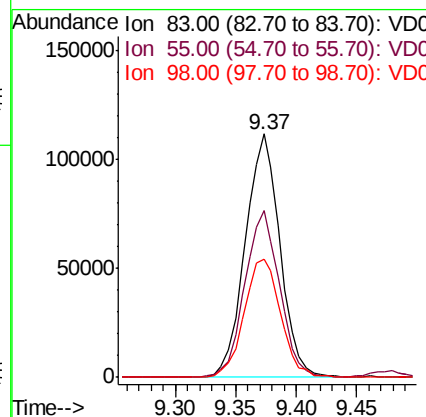
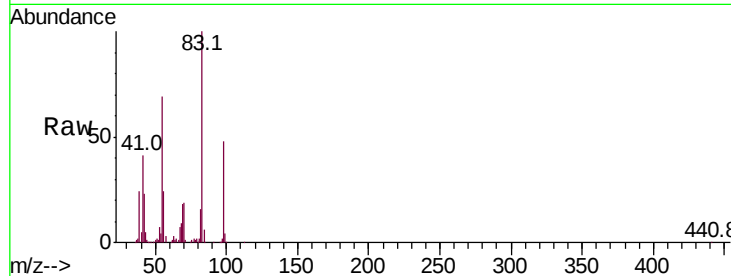




#39
Methvlcvclohexane
Concen: 49.058 ug/l
RT: 9.37 min Scan# 1267
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

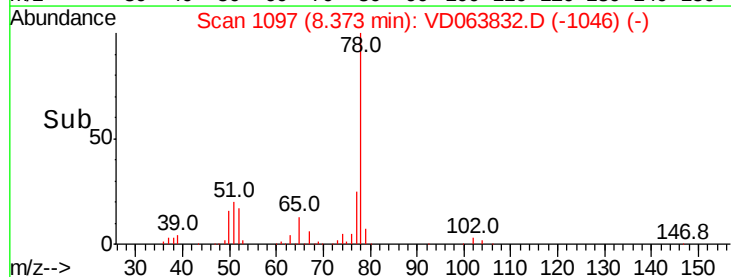
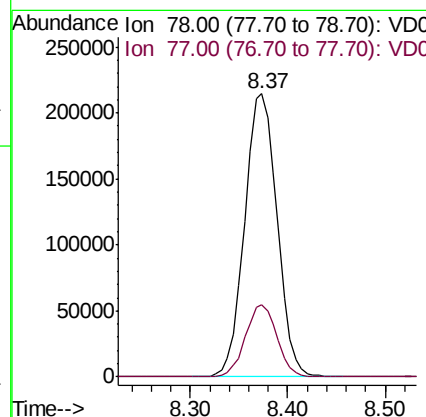
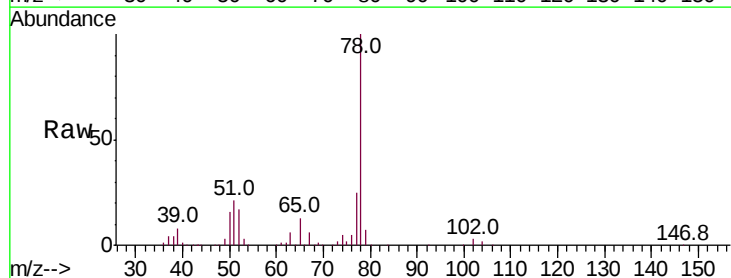
Instrument :
MSVOA_D
ClientSampled :

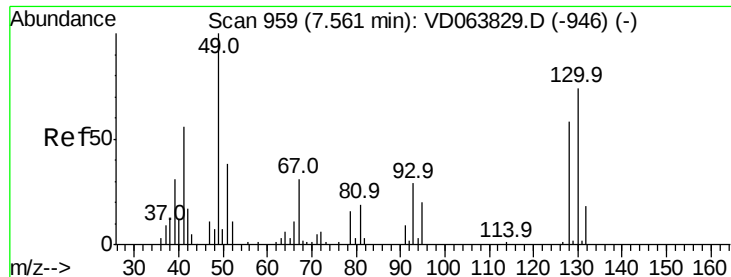
Tot Ion	83	Resp	223423
Ion Ratio	100		
Lower	54.9		
Upper	82.3		
55	68.5		
98	48.4		
	39.0		



#40
Benzene
Concen: 49.622 ug/l
RT: 8.37 min Scan# 1097
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion	78	Resp	499846
Ion Ratio	100		
Lower	19.8		
Upper	29.6		
77	25.4		





#41

Methacrylonitrile

Concen: 42.730 ug/l

RT: 7.56 min Scan# 958

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 41 Resp: 34523

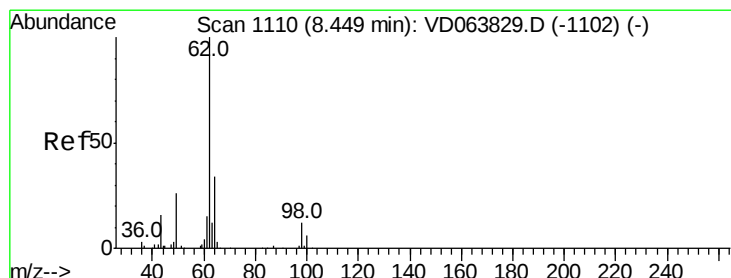
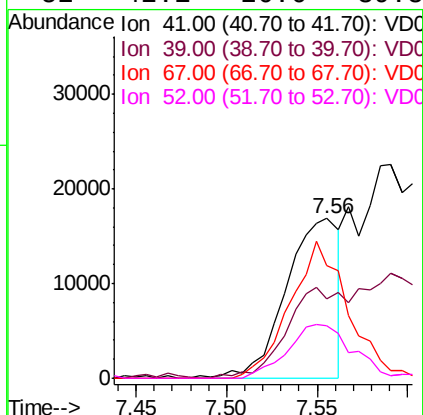
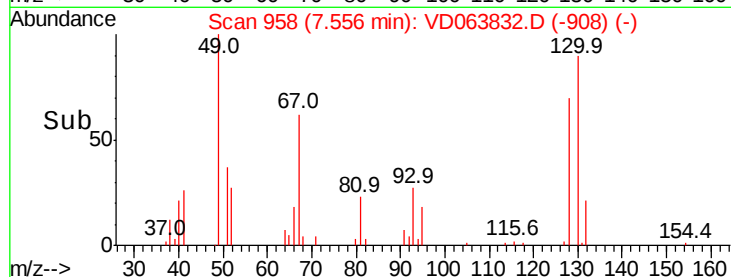
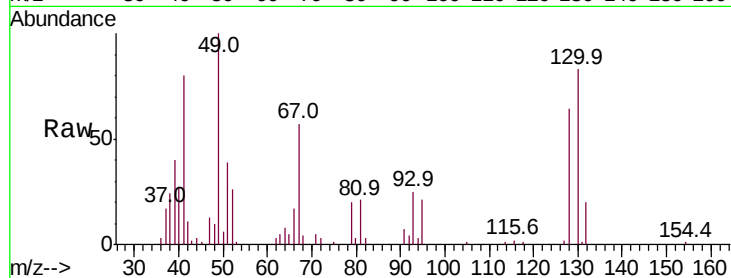
Ion Ratio Lower Upper

41 100

39 63.7 52.2 78.4

67 93.8 58.6 87.8#

52 42.1 26.6 39.8#



#42

1,2-Dichloroethane

Concen: 50.010 ug/l

RT: 8.45 min Scan# 1110

Delta R.T. 0.00 min

Lab File: VD063832.D

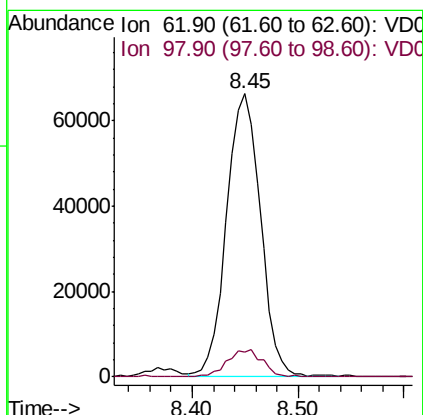
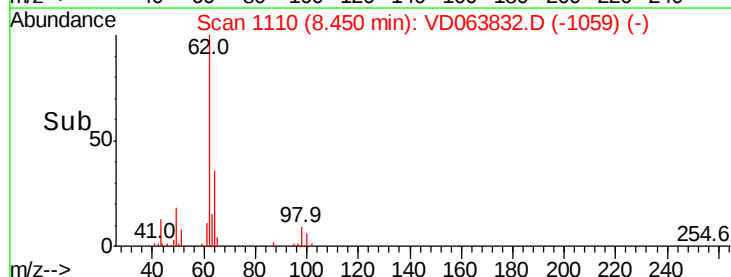
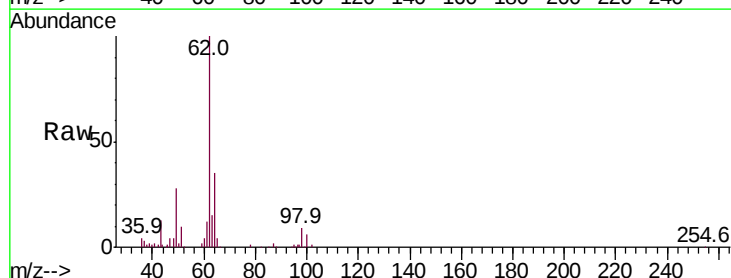
Acq: 25 Sep 2019 19:43

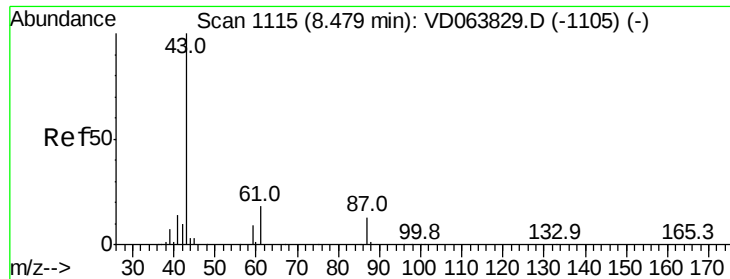
Tgt Ion: 62 Resp: 147308

Ion Ratio Lower Upper

62 100

98 10.0 0.0 19.6





#43

Isopropyl Acetate

Concen: 47.852 ug/l

RT: 8.47 min Scan# 1114

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

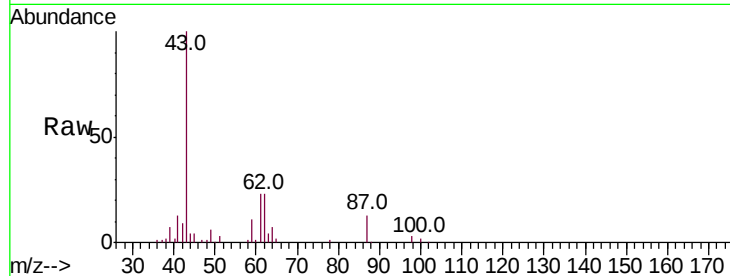
Tot Ion: 43 Resp: 146540

Ion Ratio Lower Upper

43 100

61 30.8 24.6 37.0

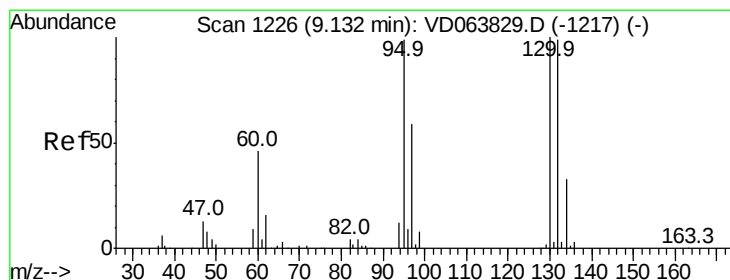
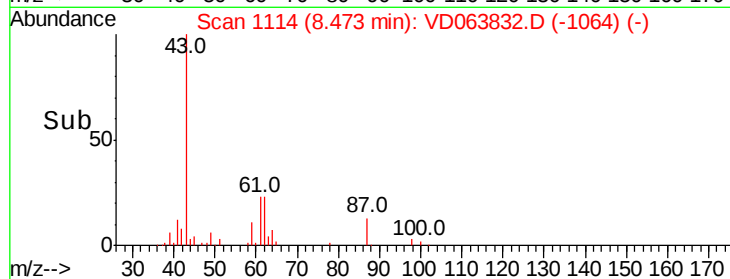
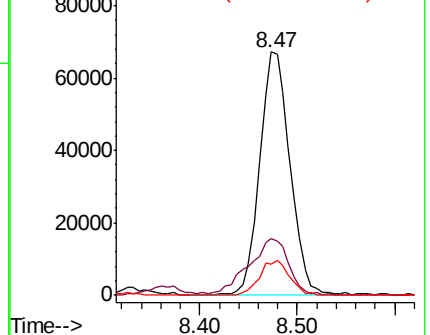
87 14.2 10.5 15.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 50.747 ug/l

RT: 9.13 min Scan# 1226

Delta R.T. 0.00 min

Lab File: VD063832.D

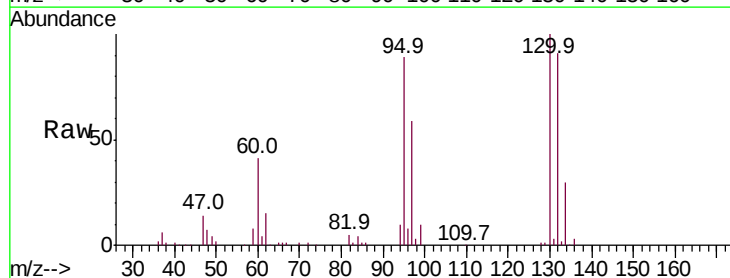
Acq: 25 Sep 2019 19:43

Tgt Ion:130 Resp: 148036

Ion Ratio Lower Upper

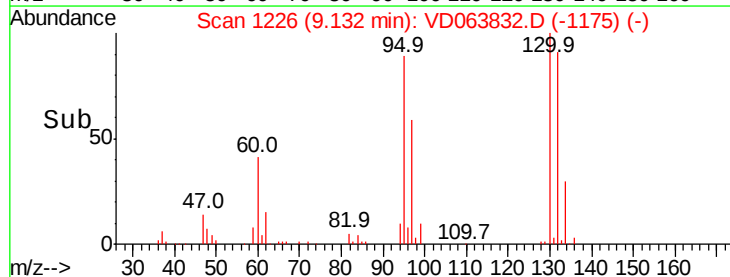
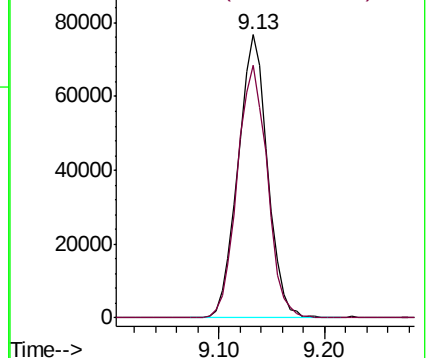
130 100

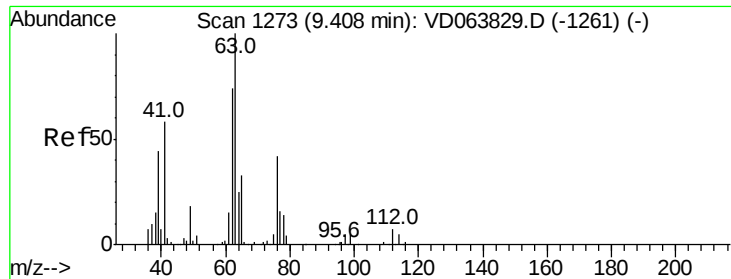
95 89.3 0.0 198.6



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 49.911 ug/l

RT: 9.41 min Scan# 1273

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

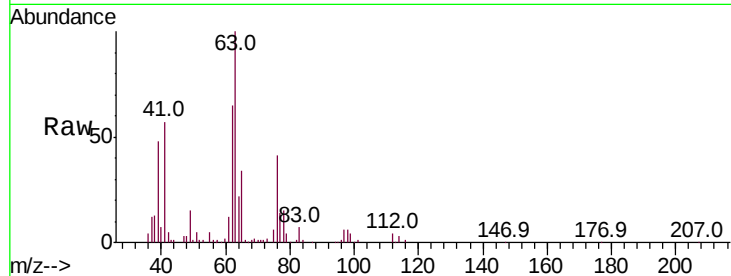
ClientSampleId :

Tot Ion: 63 Resp: 124192

Ion Ratio Lower Upper

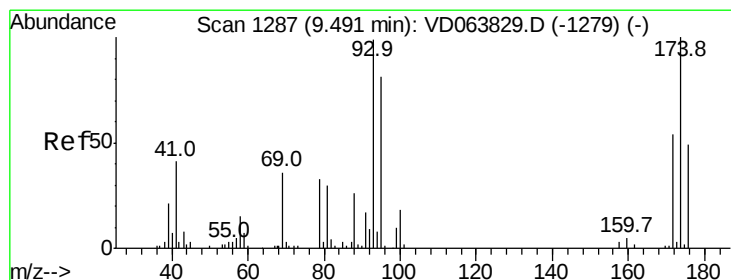
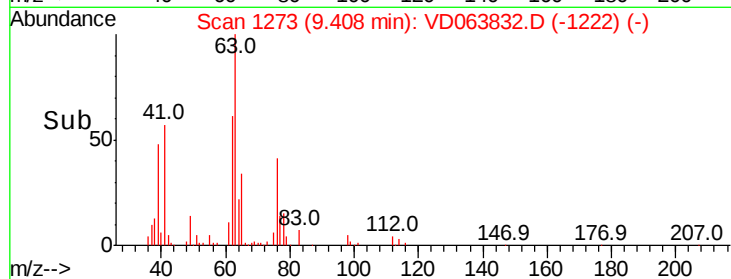
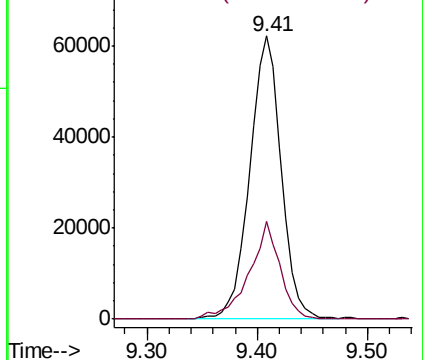
63 100

65 34.4 26.8 40.2



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 50.033 ug/l

RT: 9.49 min Scan# 1287

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

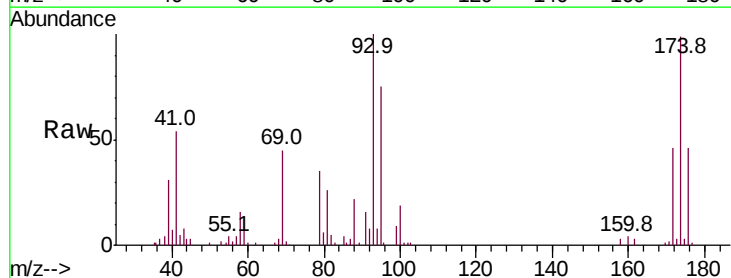
Tgt Ion: 93 Resp: 70267

Ion Ratio Lower Upper

93 100

95 83.7 63.8 95.8

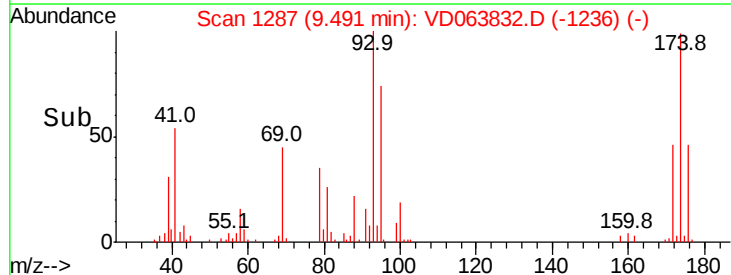
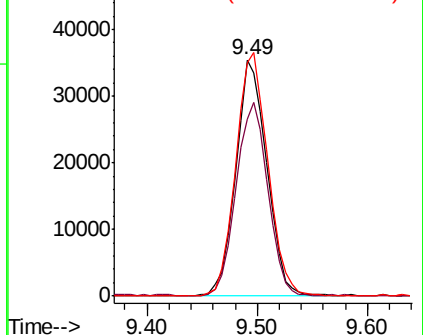
174 106.1 84.2 126.2

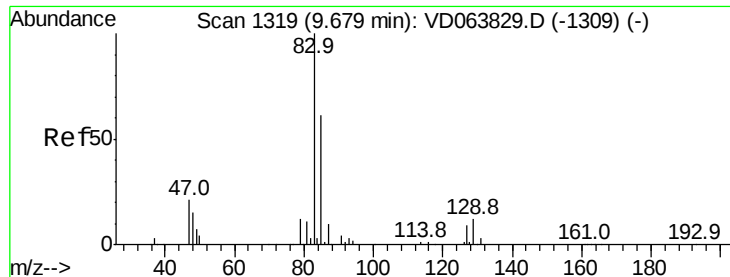


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 51.111 ug/l

RT: 9.68 min Scan# 1320

Delta R.T. 0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

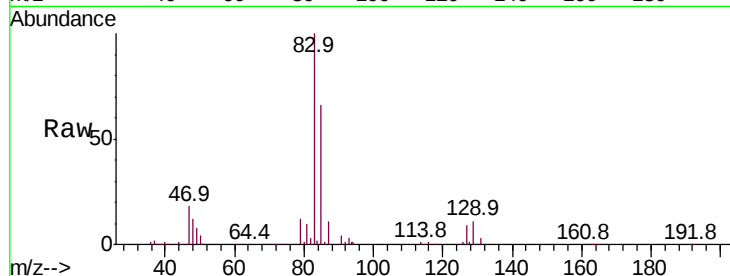
Tot Ion: 83 Resp: 185042

Ion Ratio Lower Upper

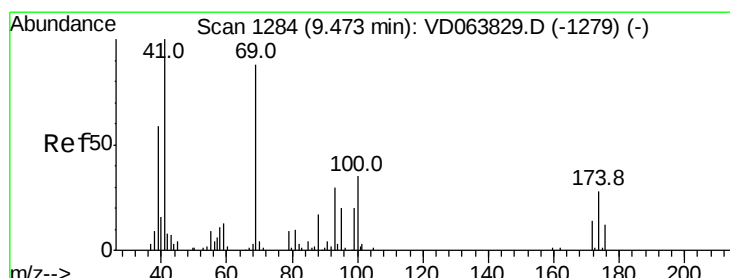
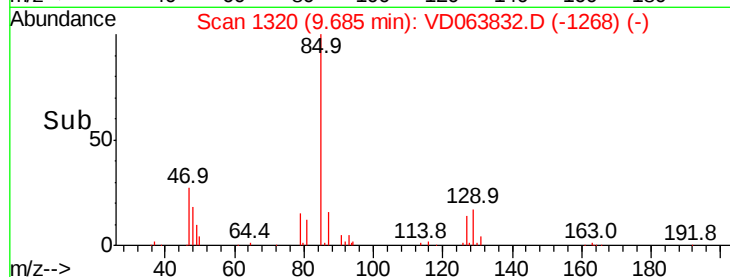
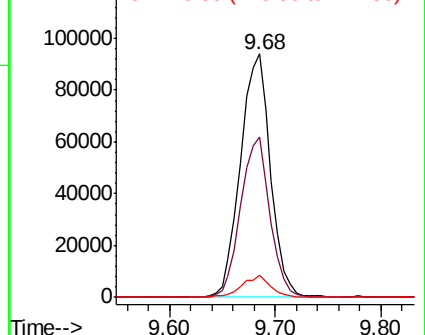
83 100

85 65.9 48.6 73.0

127 9.0 6.9 10.3



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 84.90 (84.60 to 85.60): VDC
Ion 126.80 (126.50 to 127.50): VDC



#48

Methyl methacrylate

Concen: 47.844 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

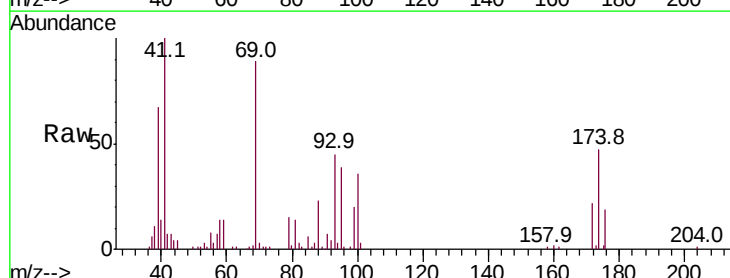
Tgt Ion: 41 Resp: 66639

Ion Ratio Lower Upper

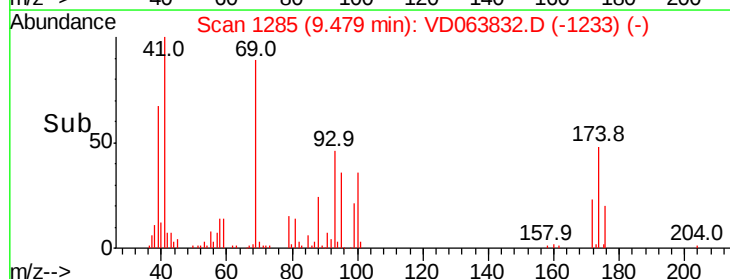
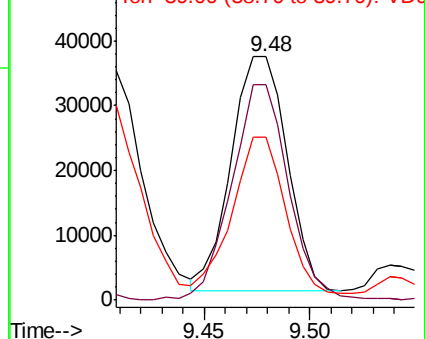
41 100

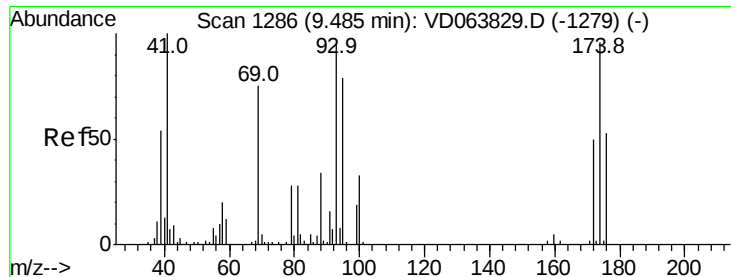
69 93.9 71.7 107.5

39 62.8 51.7 77.5



Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 39.00 (38.70 to 39.70): VDC





#49

1,4-Dioxane

Concen: 990.389 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :
MSVOA_D
ClientSampled :

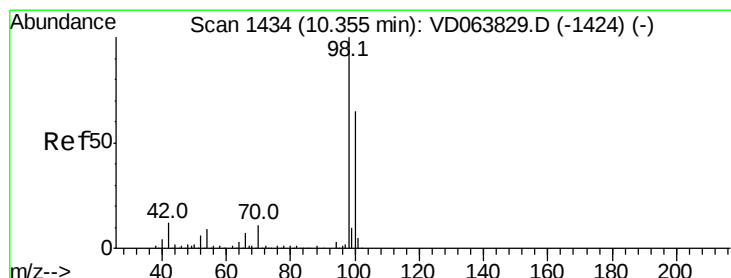
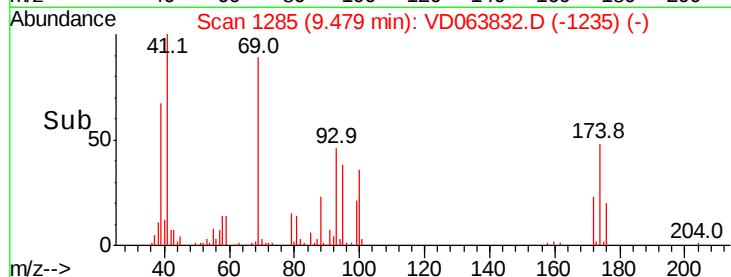
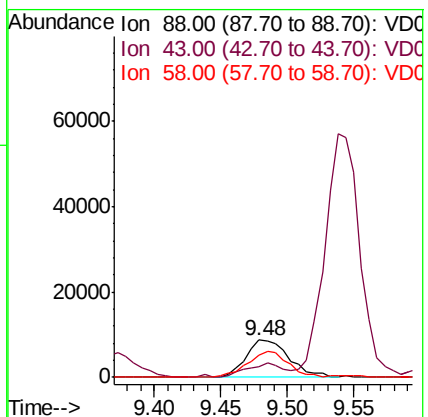
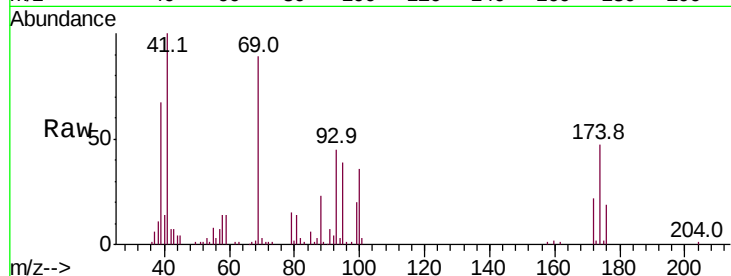
Tot Ion: 88 Resp: 19404

Ion Ratio Lower Upper

88 100

43 30.9 25.8 38.6

58 65.4 55.9 83.9



#50

Toluene-d8

Concen: 55.366 ug/l

RT: 10.36 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VD063832.D

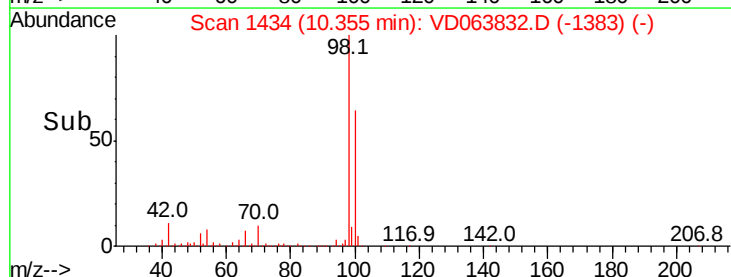
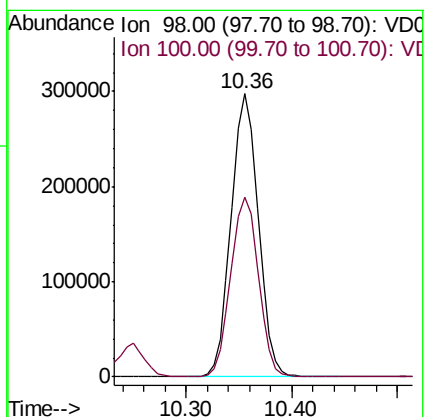
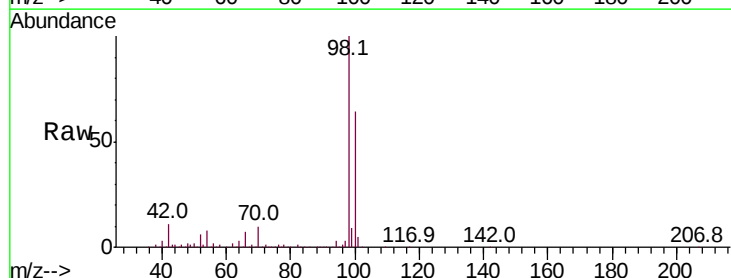
Acq: 25 Sep 2019 19:43

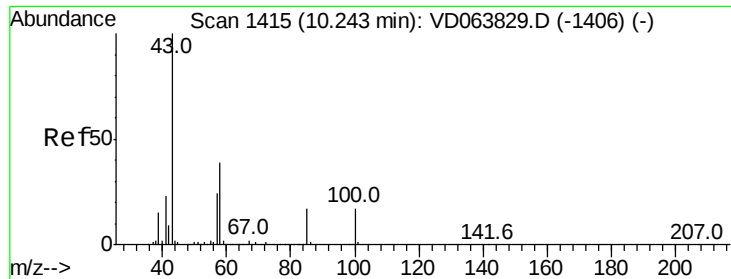
Tgt Ion: 98 Resp: 530508

Ion Ratio Lower Upper

98 100

100 64.9 51.6 77.4

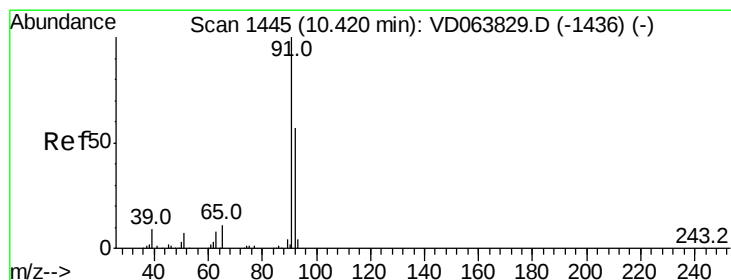
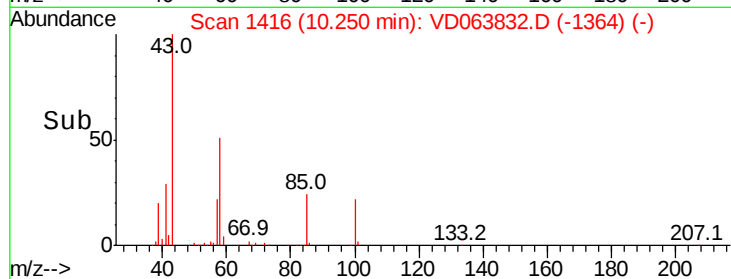
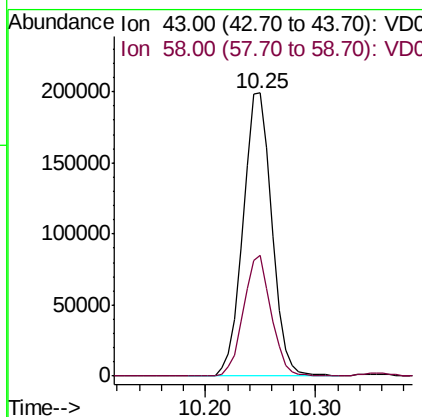
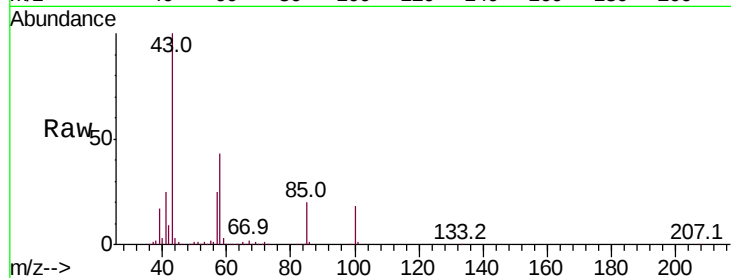




#51
4-Methyl-2-Pentanone
Concen: 237.380 ug/l
RT: 10.25 min Scan# 1416
Delta R.T. 0.01 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

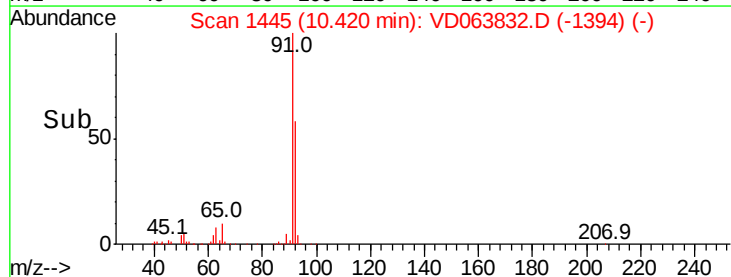
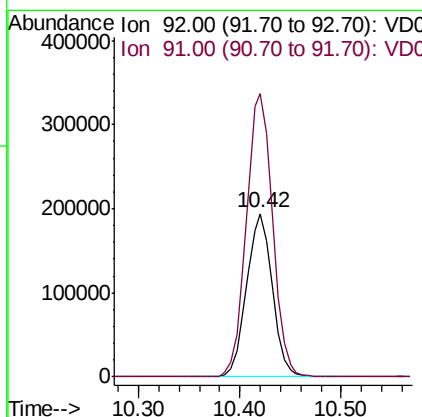
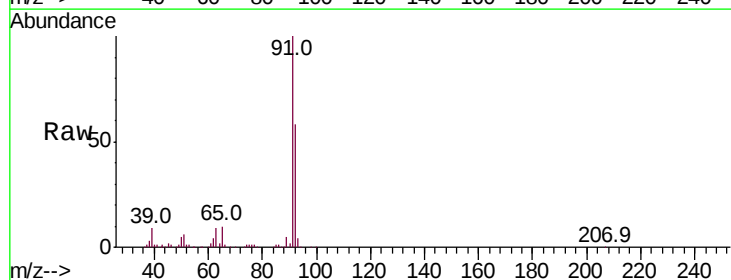
Instrument :
MSVOA_D
ClientSampled :

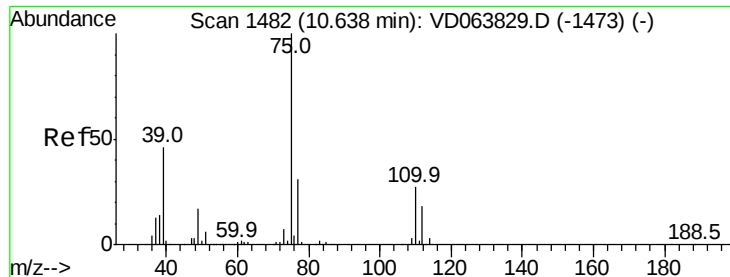
Tot Ion: 43 Resp: 366218
Ion Ratio Lower Upper
43 100
58 41.0 30.9 46.3



#52
Toluene
Concen: 49.931 ug/l
RT: 10.42 min Scan# 1445
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion: 92 Resp: 341032
Ion Ratio Lower Upper
92 100
91 177.0 139.7 209.5





#53

t-1,3-Dichloropropene

Concen: 51.265 ug/l

RT: 10.64 min Scan# 1482

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

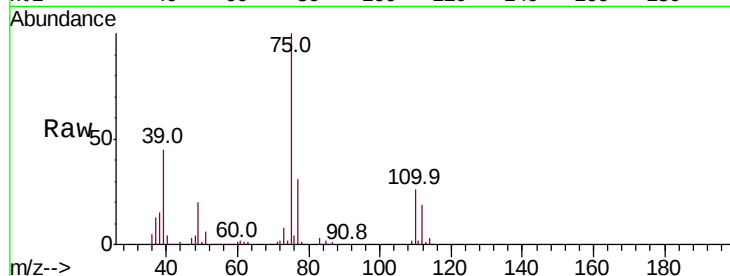
ClientSampleId :

Tot Ion: 75 Resp: 183971

Ion Ratio Lower Upper

75 100

77 31.1 24.9 37.3



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

10.64

120000

100000

80000

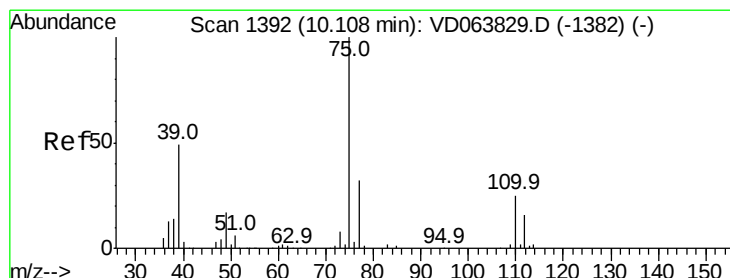
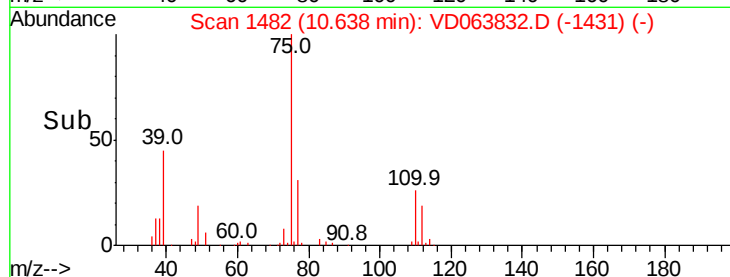
60000

40000

20000

0

Time--> 10.55 10.60 10.65 10.70



#54

cis-1,3-Dichloropropene

Concen: 51.862 ug/l

RT: 10.11 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

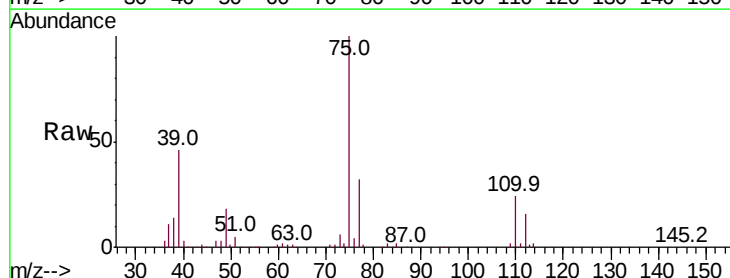
Tgt Ion: 75 Resp: 211263

Ion Ratio Lower Upper

75 100

77 31.3 25.8 38.8

39 45.5 39.5 59.3



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC

10.11

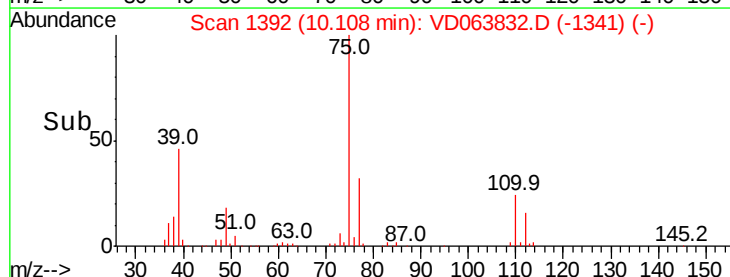
150000

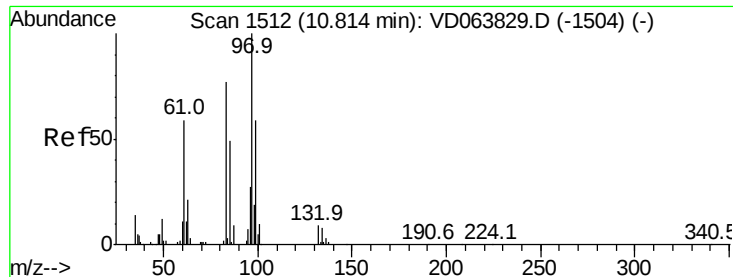
100000

50000

0

Time--> 10.00 10.10 10.20





#55

1,1,2-Trichloroethane

Concen: 49.952 ug/l

RT: 10.82 min Scan# 1513

Delta R.T. 0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 99129

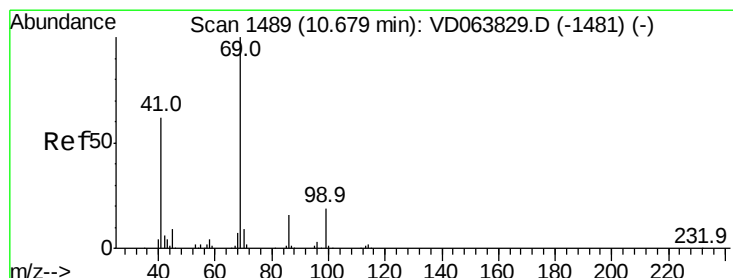
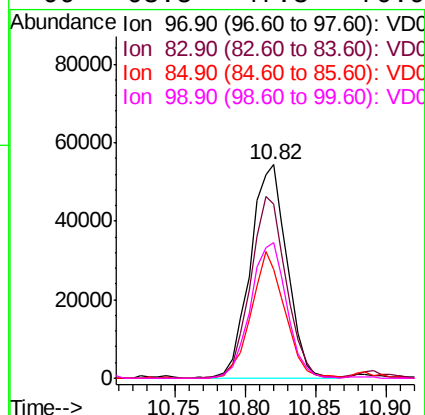
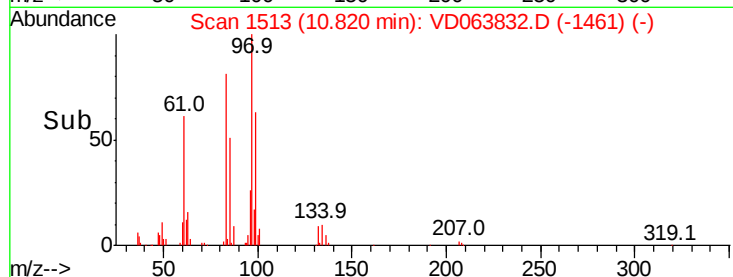
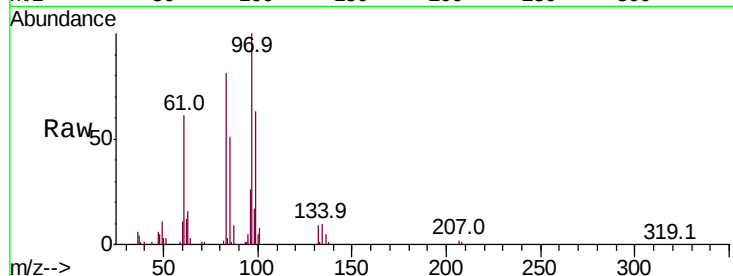
Ion	Ratio	Lower	Upper
97	100		
83	81.5	61.9	92.9
85	51.1	39.4	59.2
99	63.5	47.3	70.9

97 100

83 81.5 61.9 92.9

85 51.1 39.4 59.2

99 63.5 47.3 70.9



#56

Ethyl methacrylate

Concen: 49.632 ug/l

RT: 10.67 min Scan# 1488

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

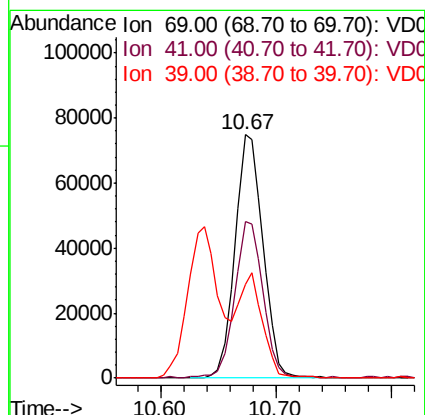
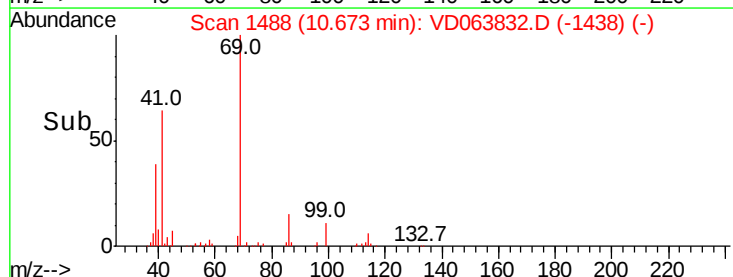
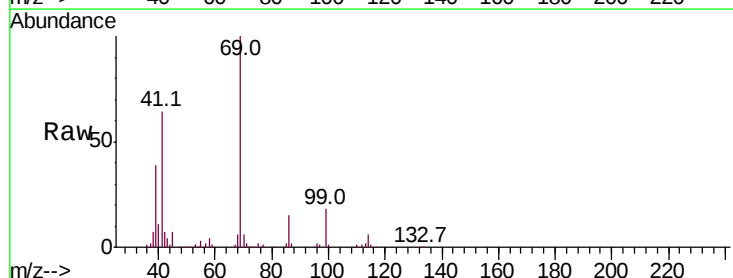
Tgt Ion: 69 Resp: 125184

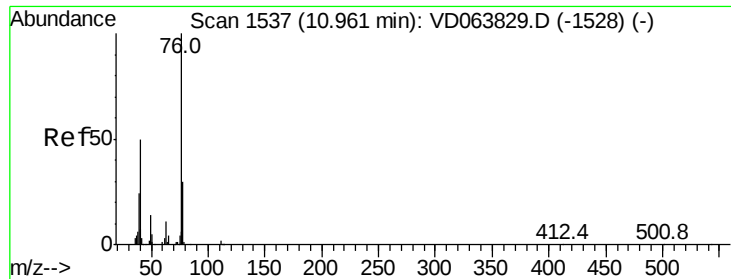
Ion	Ratio	Lower	Upper
69	100		
41	65.5	52.2	78.4
39	36.7	28.7	43.1

69 100

41 65.5 52.2 78.4

39 36.7 28.7 43.1

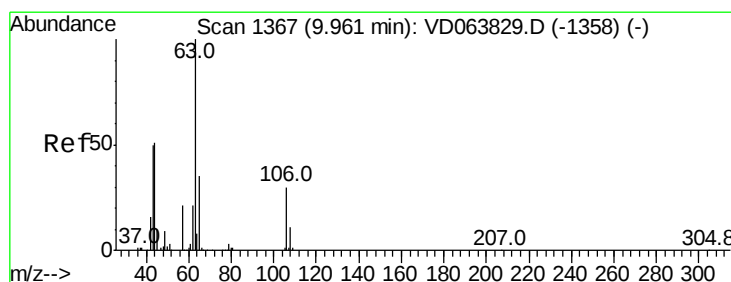
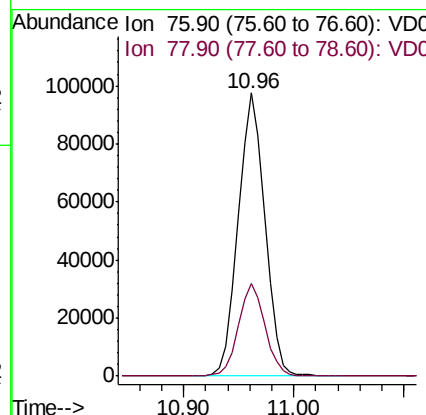
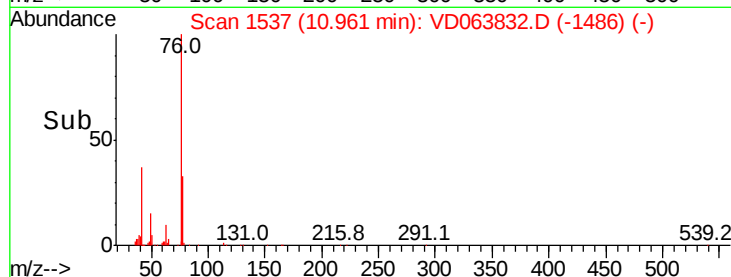
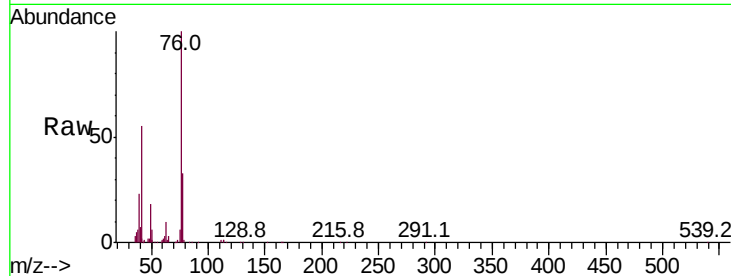




#57
 1,3-Dichloropropane
 Concen: 49.397 ug/l
 RT: 10.96 min Scan# 1537
 Delta R.T. 0.00 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

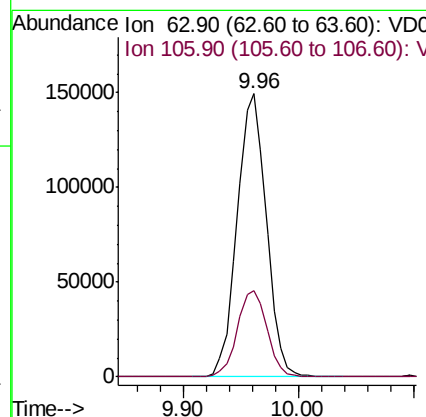
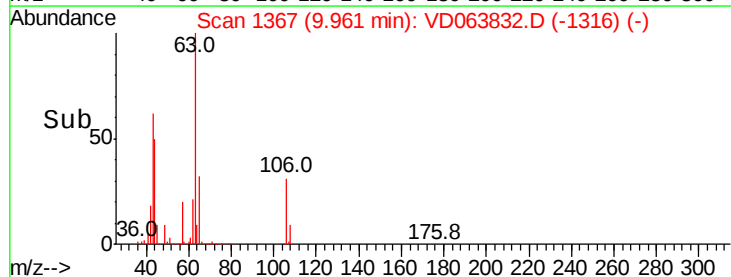
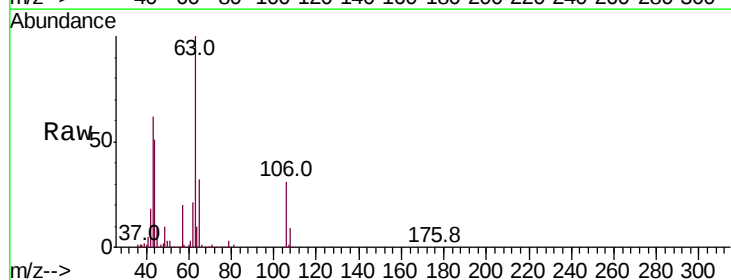
Instrument :
 MSVOA_D
 ClientSampled :

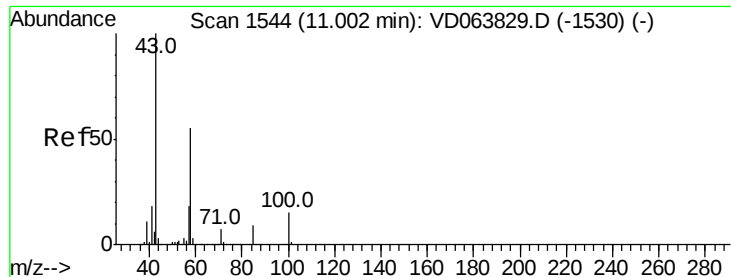
Tot Ion: 76 Resp: 166559
 Ion Ratio Lower Upper
 76 100
 78 32.4 25.7 38.5



#58
 2-Chloroethyl Vinyl ether
 Concen: 232.718 ug/l
 RT: 9.96 min Scan# 1367
 Delta R.T. 0.00 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

Tgt Ion: 63 Resp: 262350
 Ion Ratio Lower Upper
 63 100
 106 30.9 23.4 35.0

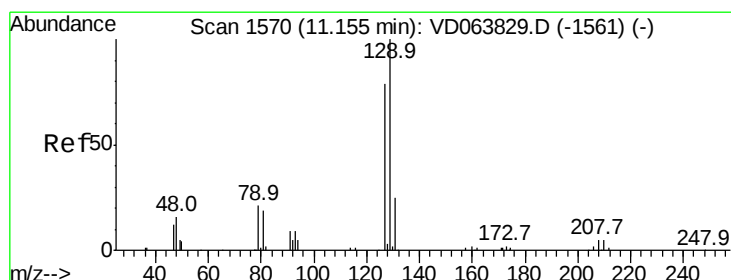
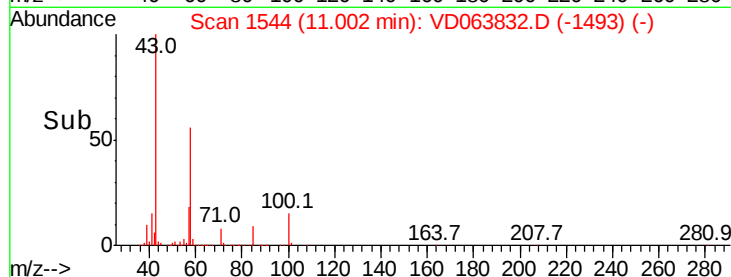
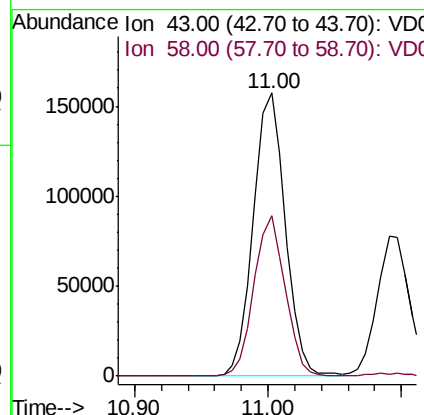
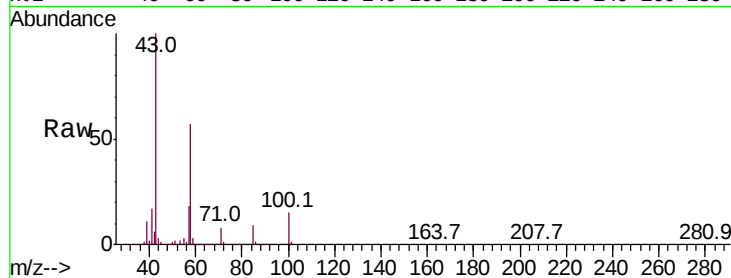




#59
2-Hexanone
Concen: 236.320 ug/l
RT: 11.00 min Scan# 1544
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

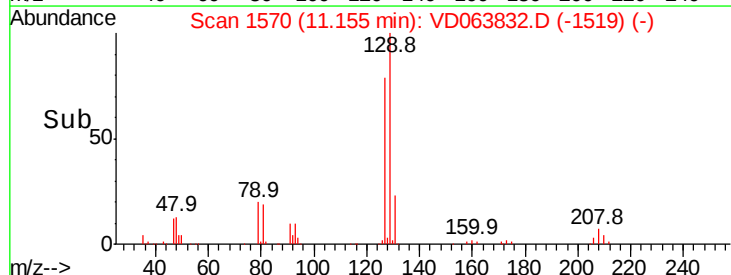
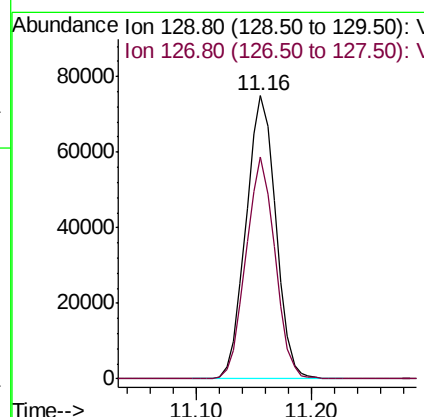
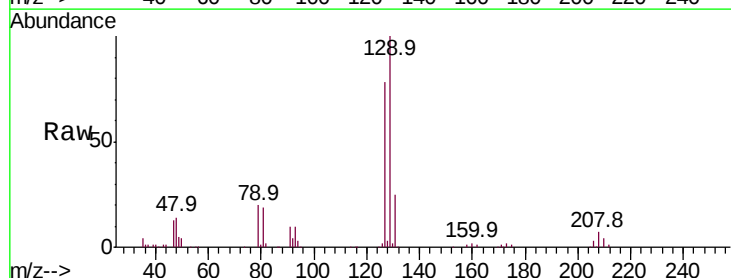
Instrument :
MSVOA_D
ClientSampleId :

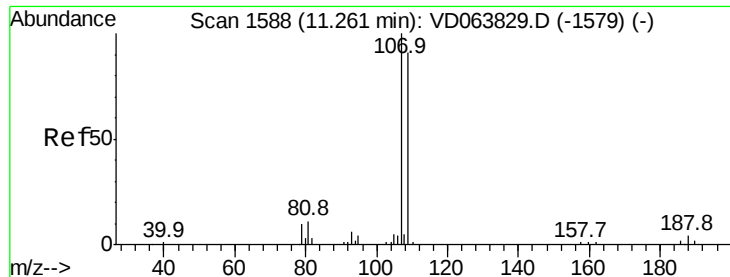
Tot Ion: 43 Resp: 260131
Ion Ratio Lower Upper
43 100
58 55.2 27.6 82.7



#60
Dibromochloromethane
Concen: 51.430 ug/l
RT: 11.16 min Scan# 1570
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion:129 Resp: 134688
Ion Ratio Lower Upper
129 100
127 76.2 38.8 116.3

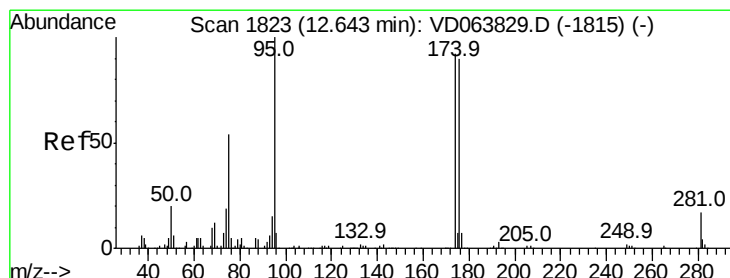
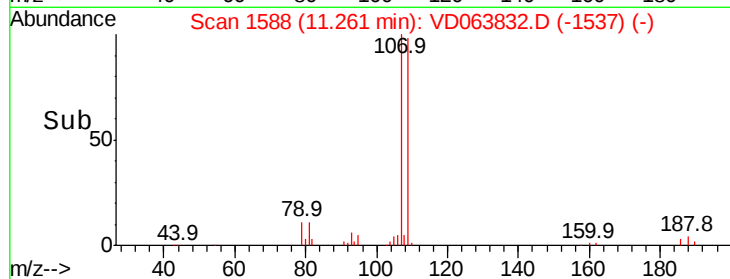
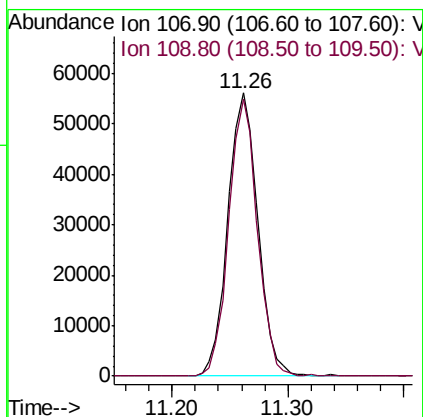
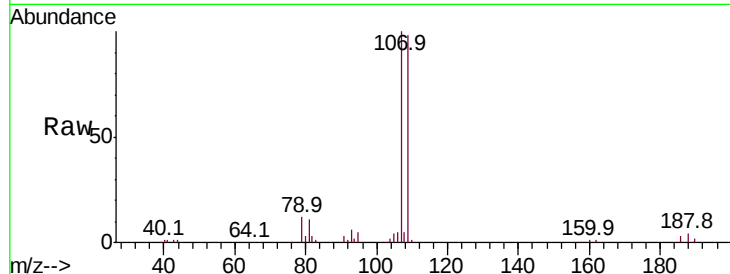




#61
 1,2-Dibromoethane
 Concen: 50.877 ug/l
 RT: 11.26 min Scan# 1588
 Delta R.T. 0.00 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

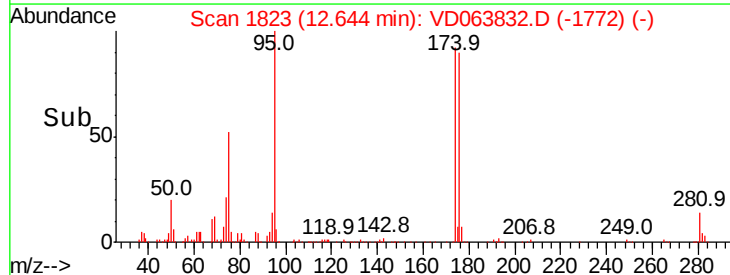
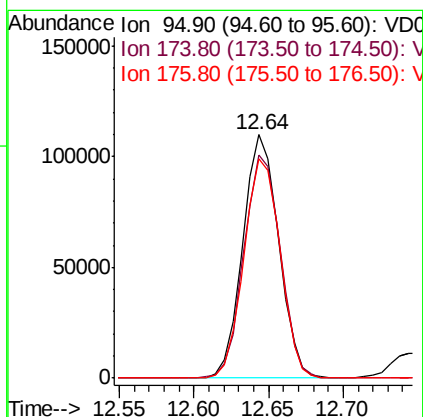
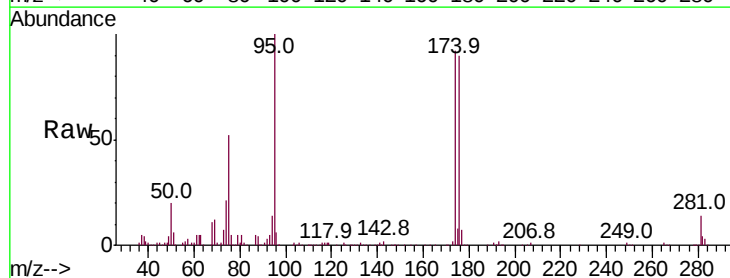
Instrument :
 MSVOA_D
 ClientSampleId :

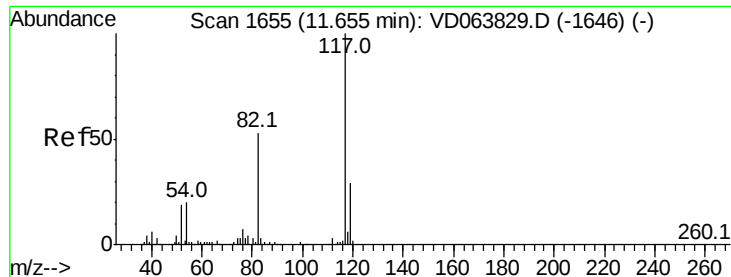
Tot Ion:107 Resp: 100933
 Ion Ratio Lower Upper
 107 100
 109 93.1 74.9 112.3



#62
 4-Bromofluorobenzene
 Concen: 53.139 ug/l
 RT: 12.64 min Scan# 1823
 Delta R.T. 0.00 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

Tgt Ion: 95 Resp: 182726
 Ion Ratio Lower Upper
 95 100
 174 93.1 0.0 183.2
 176 91.2 0.0 177.4

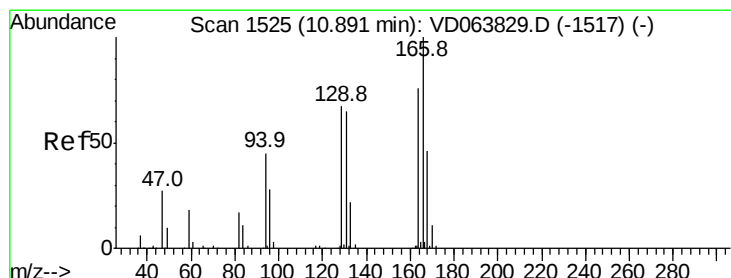
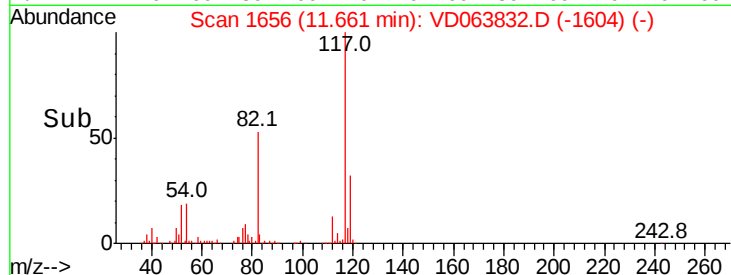
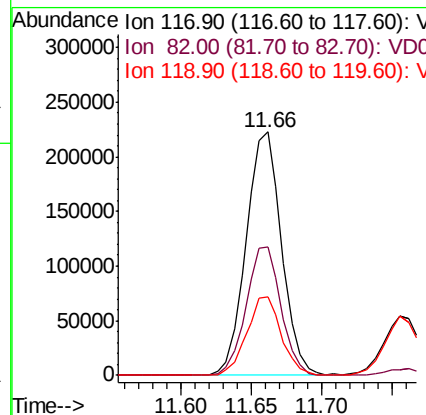
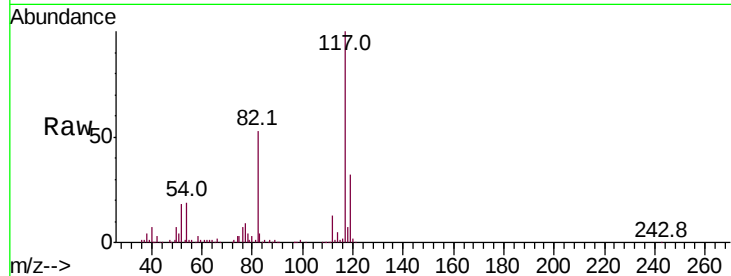




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1656
Delta R.T. 0.01 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

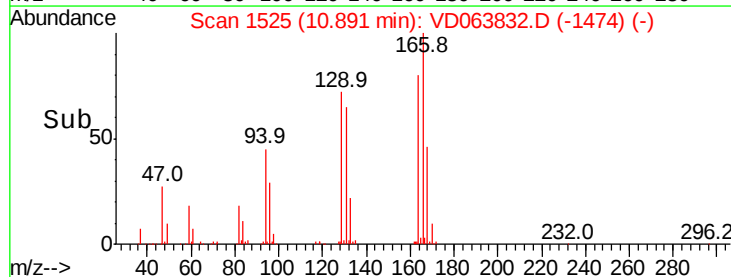
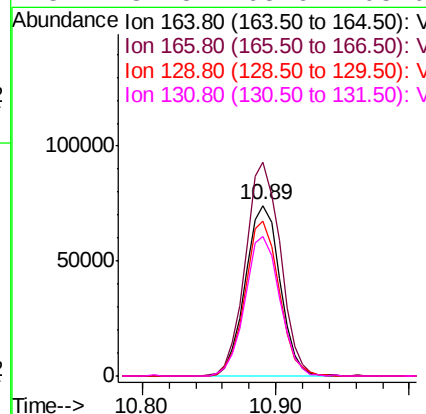
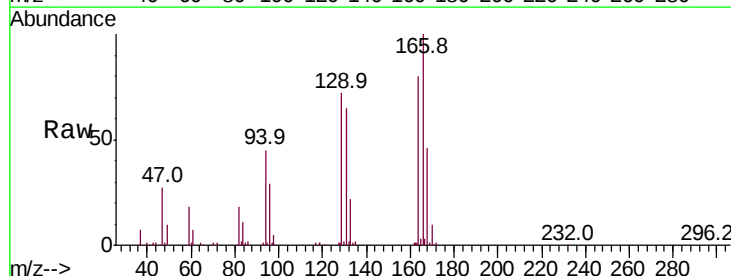
Instrument :
MSVOA_D
ClientSampleId :

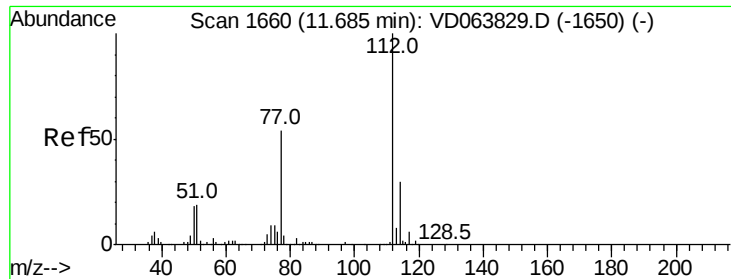
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	42.4	63.6
119	32.5	23.5	35.3



#64
Tetrachloroethene
Concen: 50.503 ug/l
RT: 10.89 min Scan# 1525
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	125.1	105.5	158.3
129	90.6	70.2	105.4
131	81.8	68.6	103.0

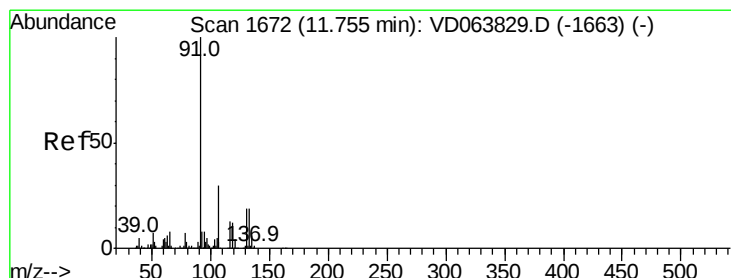
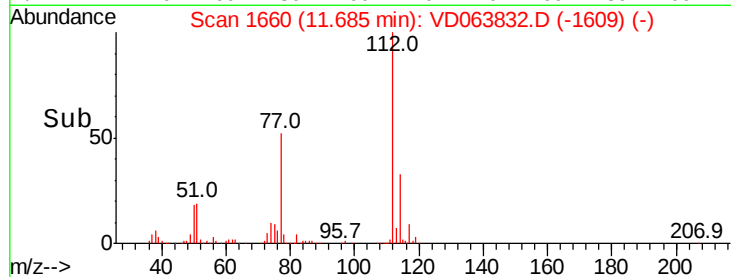
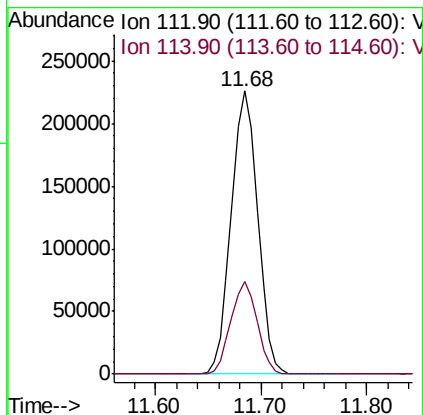
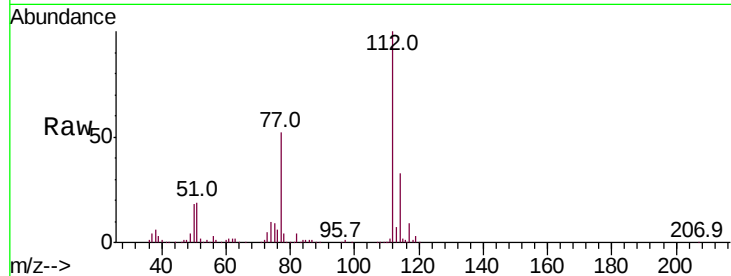




#65
Chlorobenzene
Concen: 49.931 ug/l
RT: 11.68 min Scan# 1660
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

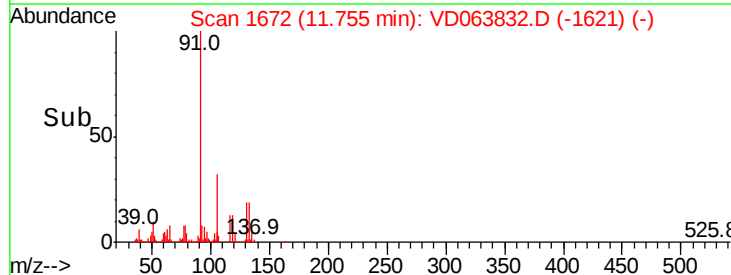
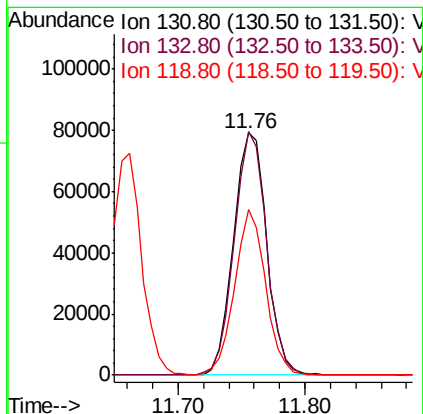
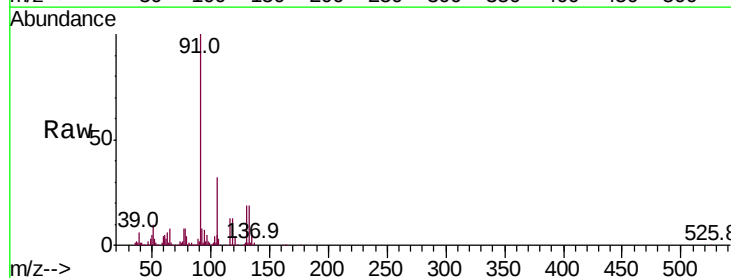
Instrument :
MSVOA_D
ClientSampled :

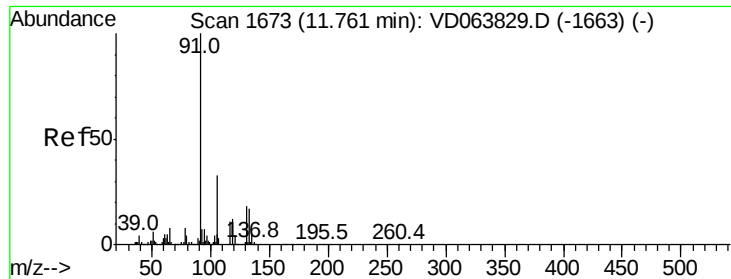
Tot Ion:112 Resp: 392830
Ion Ratio Lower Upper
112 100
114 32.7 24.2 36.2



#66
1,1,1,2-Tetrachloroethane
Concen: 49.529 ug/l
RT: 11.76 min Scan# 1672
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion:131 Resp: 143206
Ion Ratio Lower Upper
131 100
133 97.7 47.4 142.3
119 64.0 31.6 94.8





#67

Ethyl Benzene

Concen: 49.021 ug/l

RT: 11.76 min Scan# 1672

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

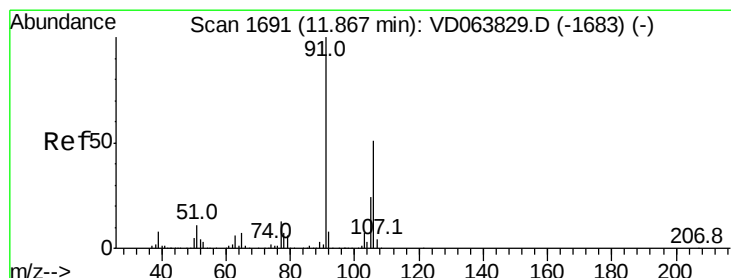
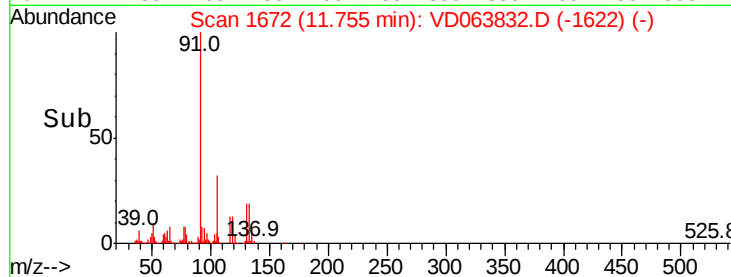
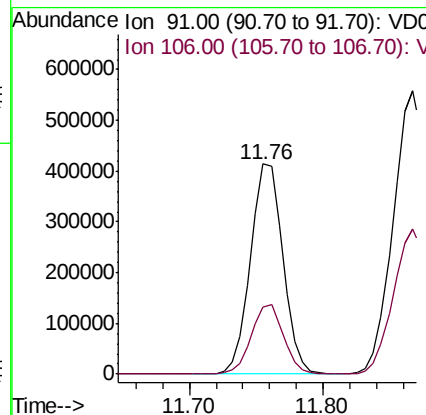
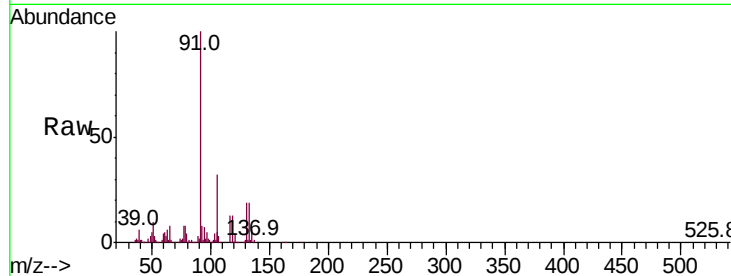
ClientSampleId :

Tot Ion: 91 Resp: 696651

Ion Ratio Lower Upper

91 100

106 32.0 26.6 40.0



#68

m/p-Xylenes

Concen: 99.716 ug/l

RT: 11.87 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VD063832.D

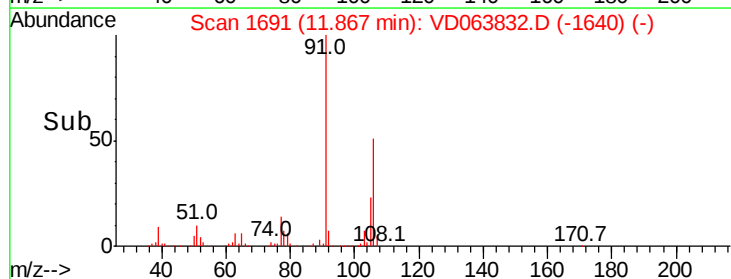
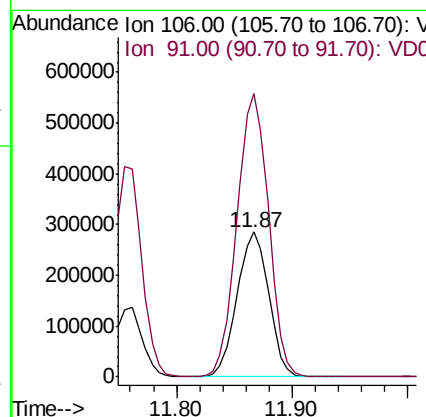
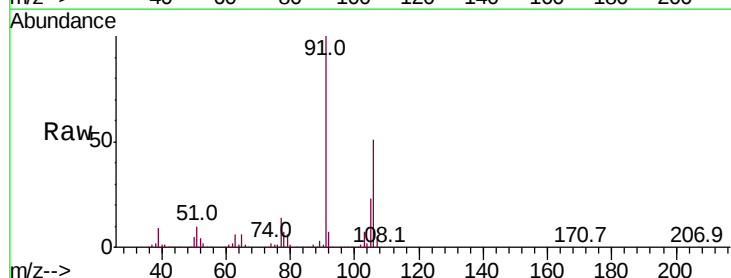
Acq: 25 Sep 2019 19:43

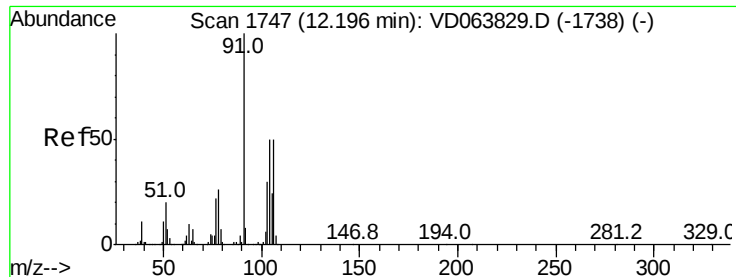
Tgt Ion:106 Resp: 544181

Ion Ratio Lower Upper

106 100

91 194.6 157.6 236.4

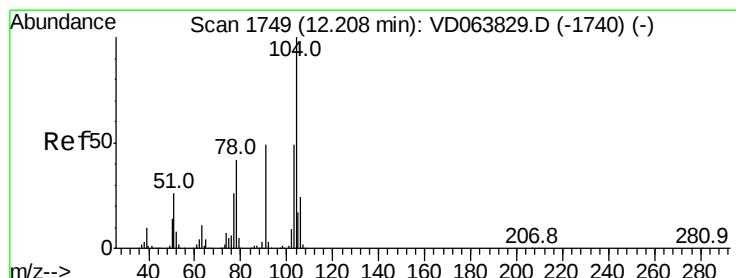
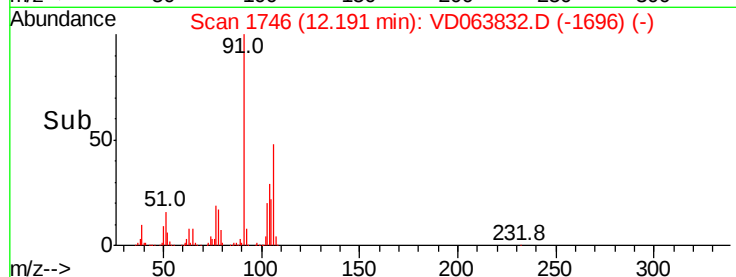
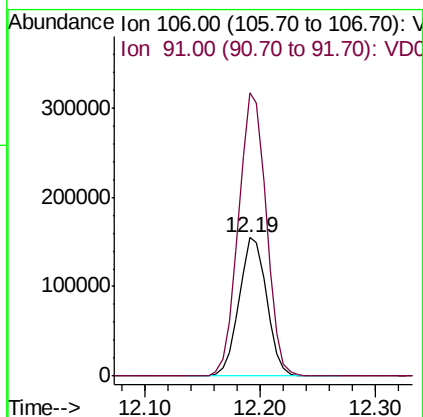
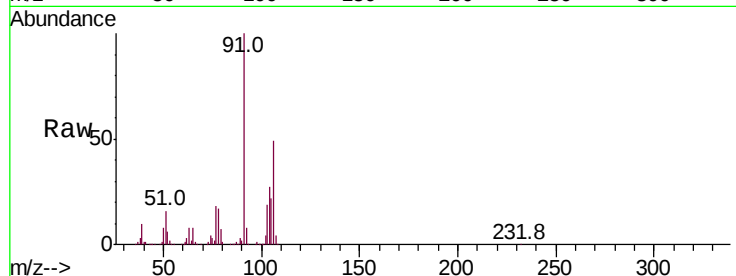




#69
o-Xylene
Concen: 50.000 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. -0.01 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

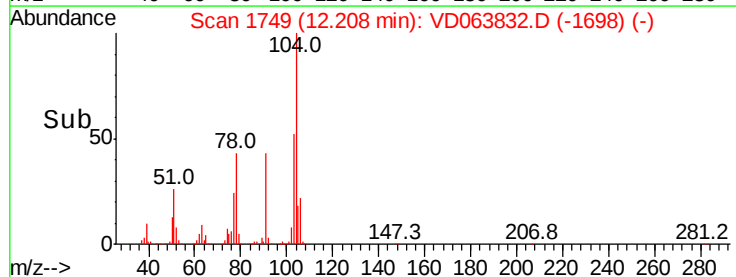
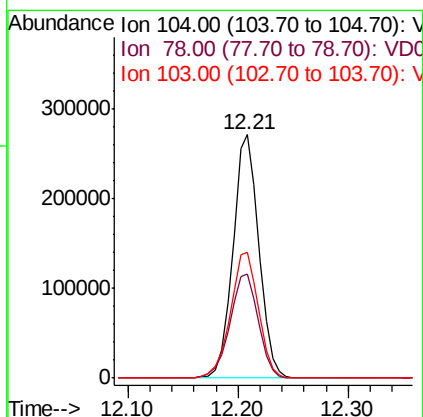
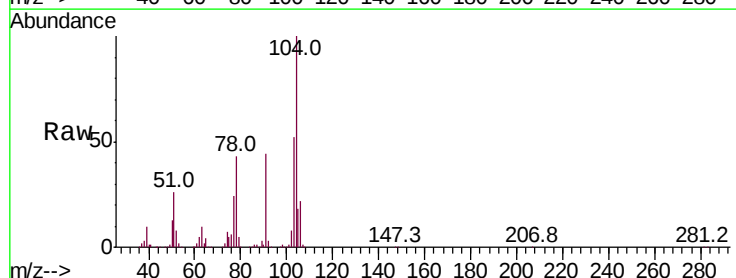
Instrument :
MSVOA_D
ClientSampleId :

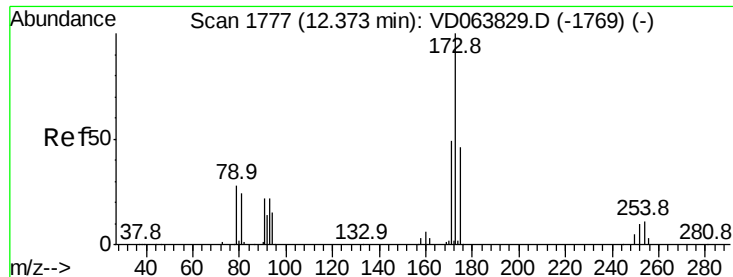
Tot Ion:106 Resp: 257545
Ion Ratio Lower Upper
106 100
91 205.8 102.4 307.1



#70
Styrene
Concen: 51.068 ug/l
RT: 12.21 min Scan# 1749
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion:104 Resp: 445189
Ion Ratio Lower Upper
104 100
78 47.0 37.3 55.9
103 55.9 44.2 66.4





#71

Bromoform

Concen: 52.024 ug/l

RT: 12.37 min Scan# 1777

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

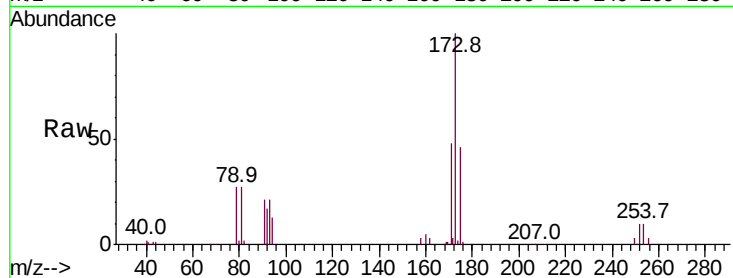
Tot Ion:173 Resp: 83561

Ion Ratio Lower Upper

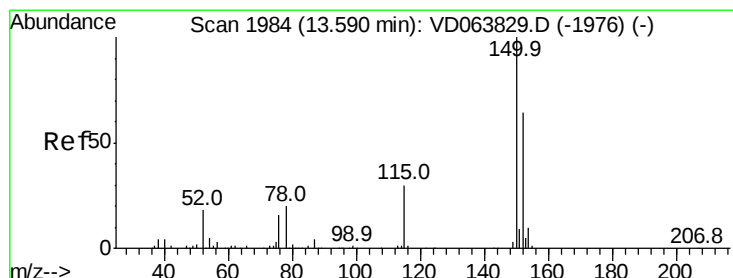
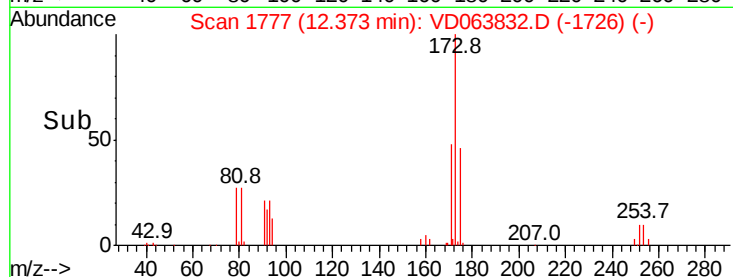
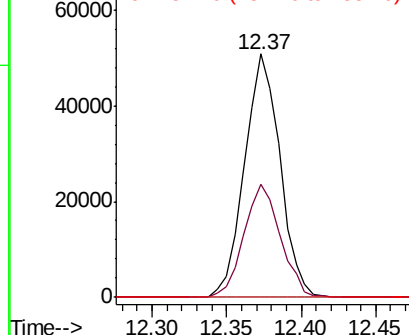
173 100

175 47.9 23.3 69.8

254 0.1 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

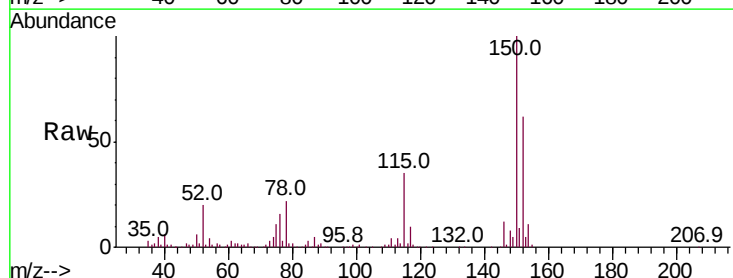
Tgt Ion:152 Resp: 205776

Ion Ratio Lower Upper

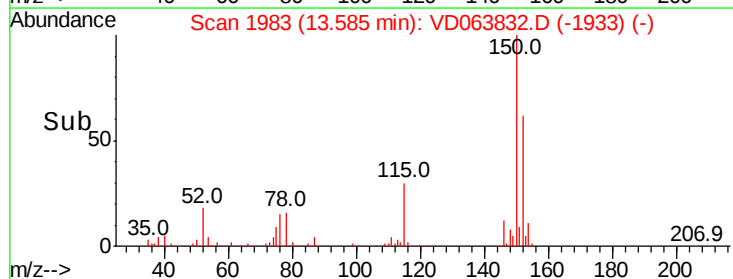
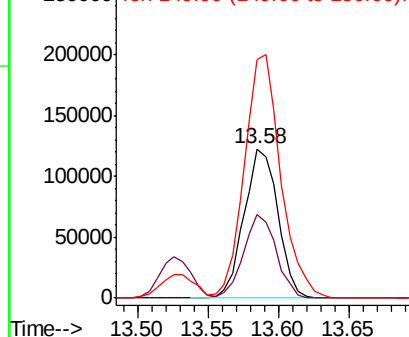
152 100

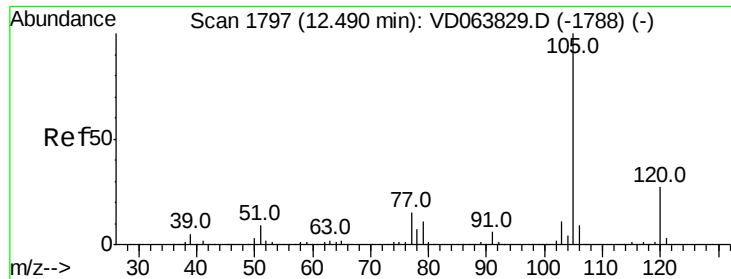
115 54.3 27.0 81.0

150 175.3 0.0 344.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 49.442 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

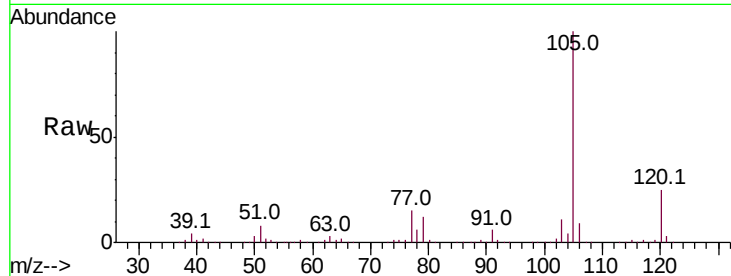
ClientSampleId :

Tot Ion:105 Resp: 694924

Ion Ratio Lower Upper

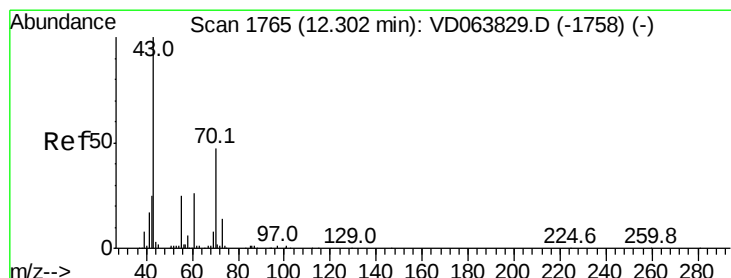
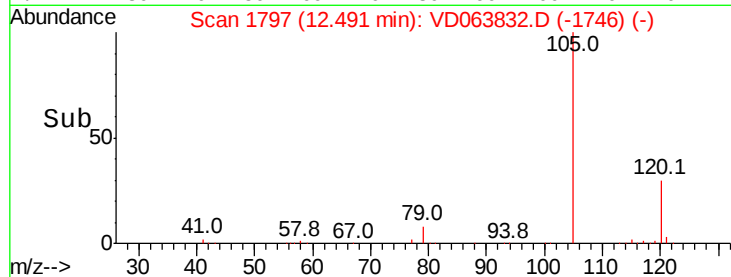
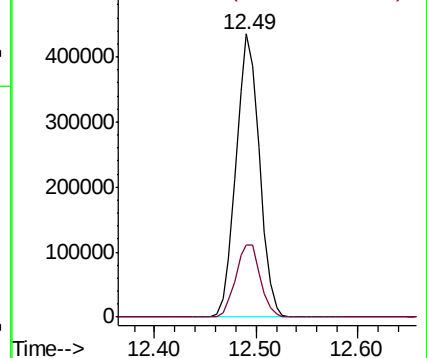
105 100

120 27.0 13.7 41.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 47.265 ug/l

RT: 12.30 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Tgt Ion: 43 Resp: 145423

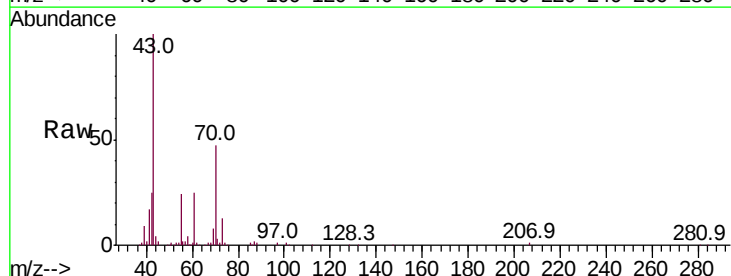
Ion Ratio Lower Upper

43 100

70 45.6 35.0 52.6

55 23.5 19.8 29.6

61 25.5 19.6 29.4

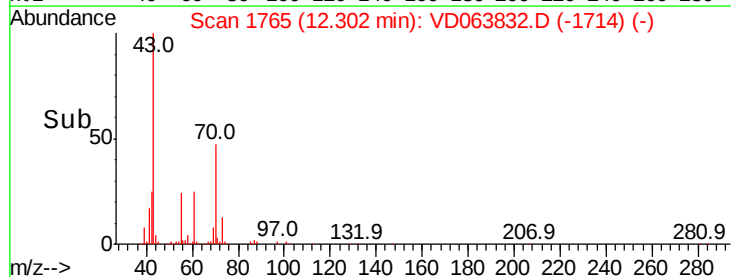
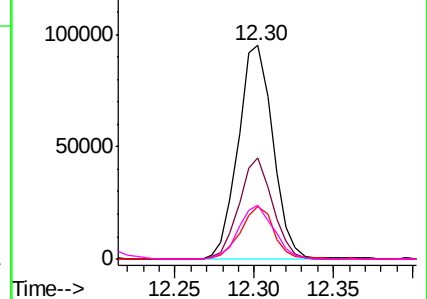


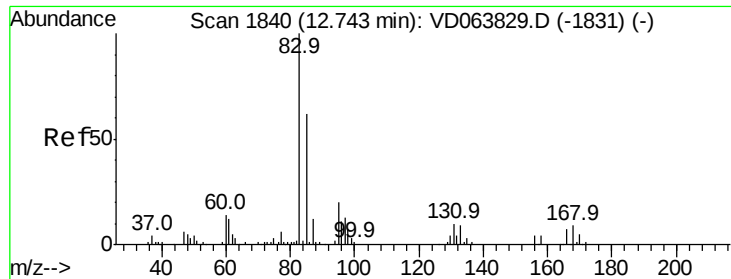
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: 47.632 ug/l

RT: 12.74 min Scan# 1840

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

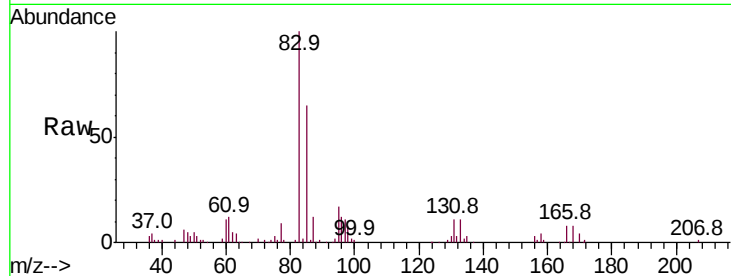
Tot Ion: 83 Resp: 111590

Ion Ratio Lower Upper

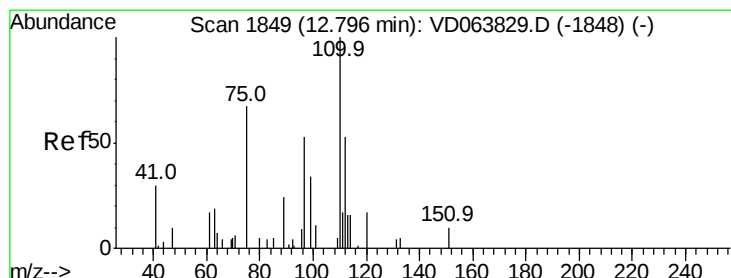
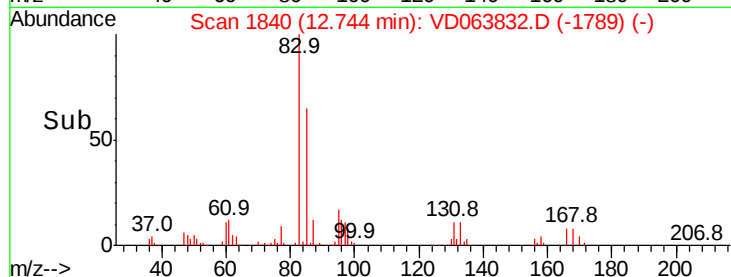
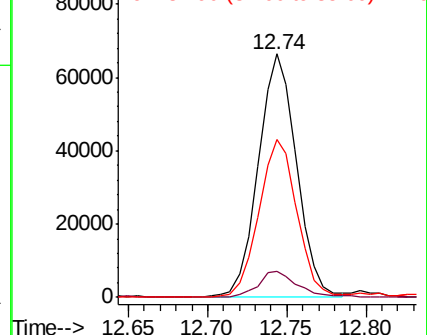
83 100

131 11.0 5.6 16.8

85 64.8 31.9 95.7



Abundance Ion 82.90 (82.60 to 83.60): VDC
Ion 130.80 (130.50 to 131.50): VDC
Ion 84.90 (84.60 to 85.60): VDC



#76

1,2,3-Trichloropropane

Concen: 93.490 ug/l

RT: 12.80 min Scan# 1849

Delta R.T. 0.00 min

Lab File: VD063832.D

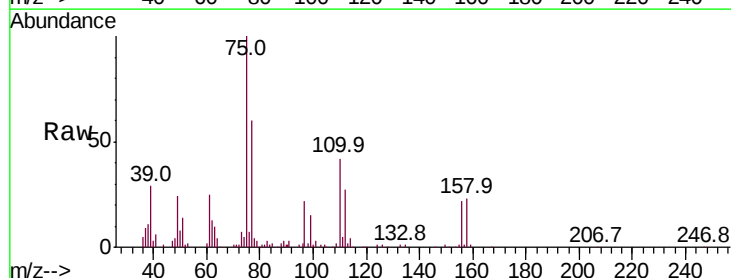
Acq: 25 Sep 2019 19:43

Tgt Ion: 75 Resp: 145873

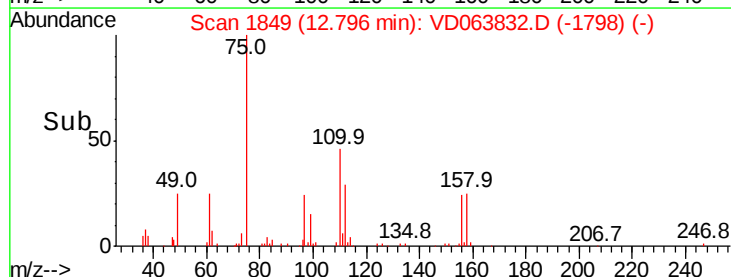
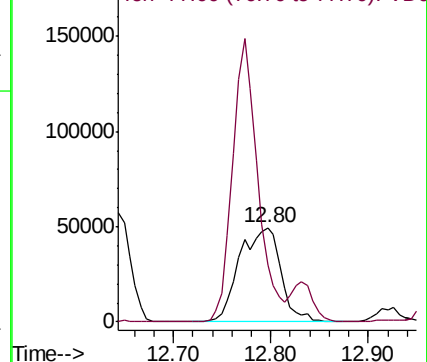
Ion Ratio Lower Upper

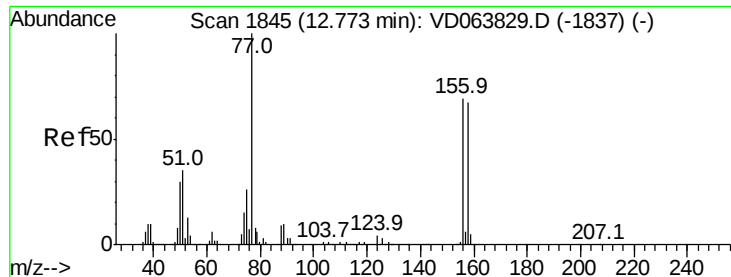
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 51.359 ug/l

RT: 12.77 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

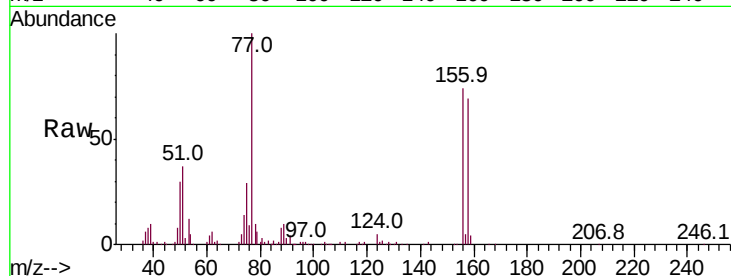
Tot Ion:156 Resp: 173481

Ion Ratio Lower Upper

156 100

77 155.1 79.8 239.4

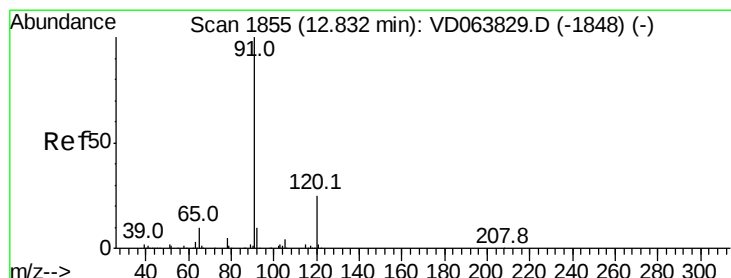
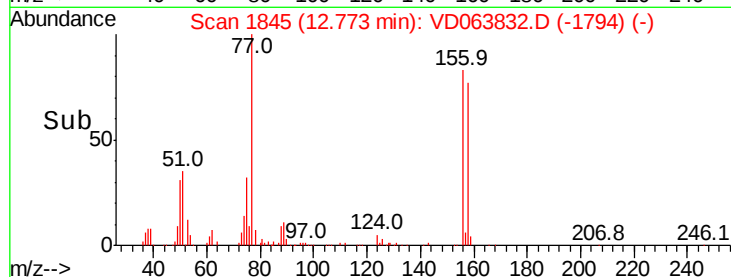
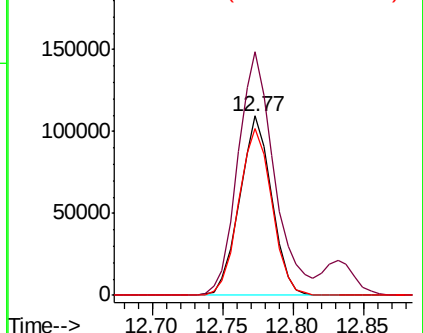
158 96.5 47.9 143.7



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 49.467 ug/l

RT: 12.83 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VD063832.D

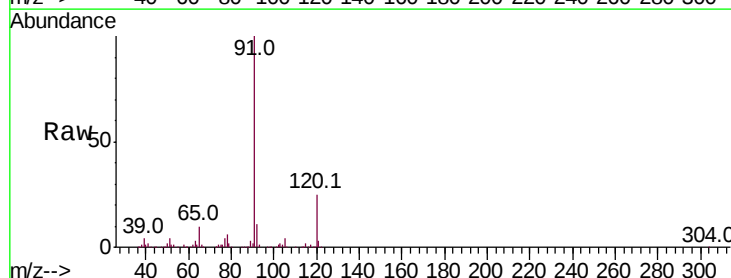
Acq: 25 Sep 2019 19:43

Tgt Ion: 91 Resp: 817974

Ion Ratio Lower Upper

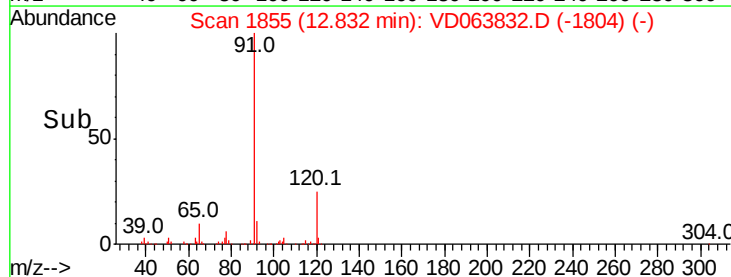
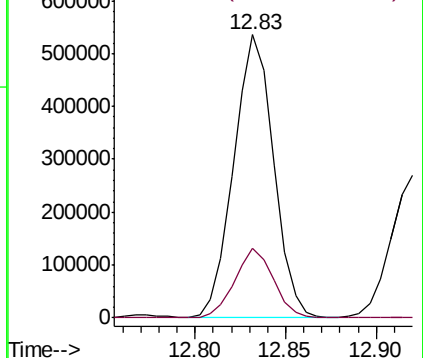
91 100

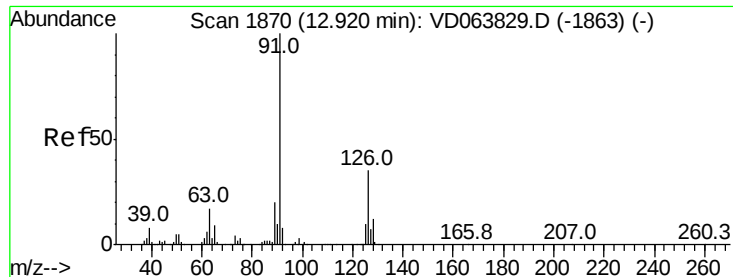
120 24.0 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 49.004 ug/l

RT: 12.92 min Scan# 1870

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

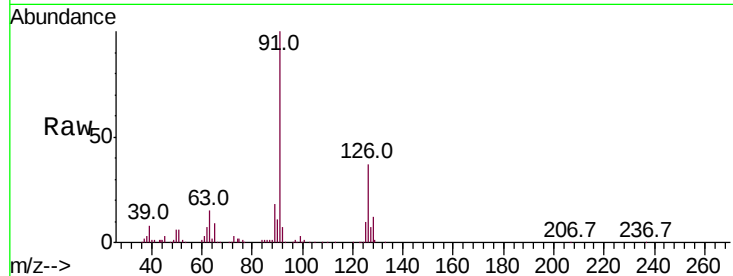
ClientSampleId :

Tot Ion: 91 Resp: 437071

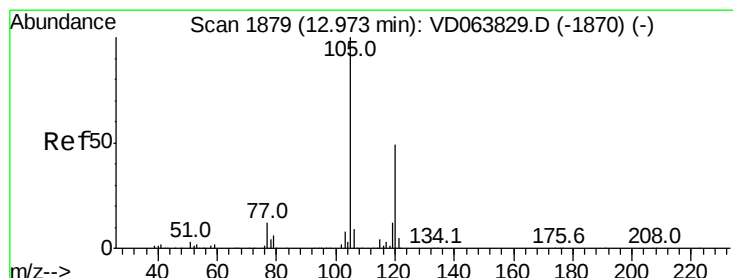
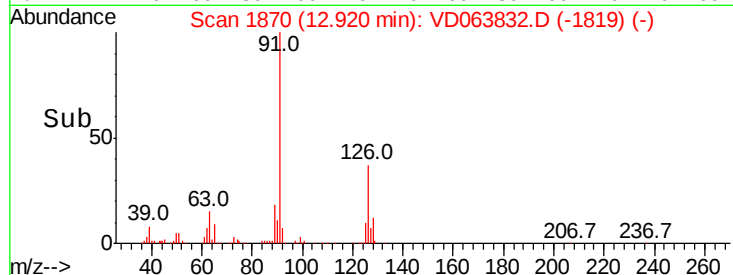
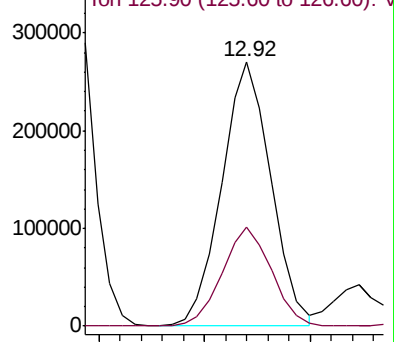
Ion Ratio Lower Upper

91 100

126 37.6 17.8 53.5



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 50.128 ug/l

RT: 12.97 min Scan# 1879

Delta R.T. 0.00 min

Lab File: VD063832.D

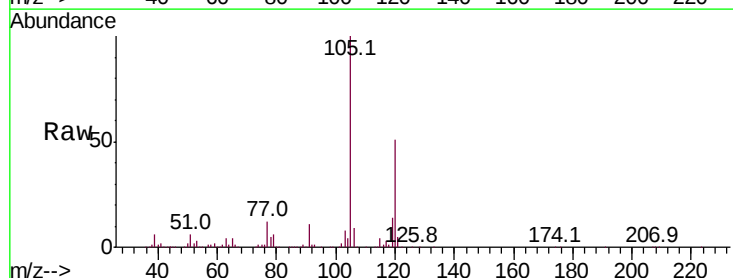
Acq: 25 Sep 2019 19:43

Tgt Ion:105 Resp: 587345

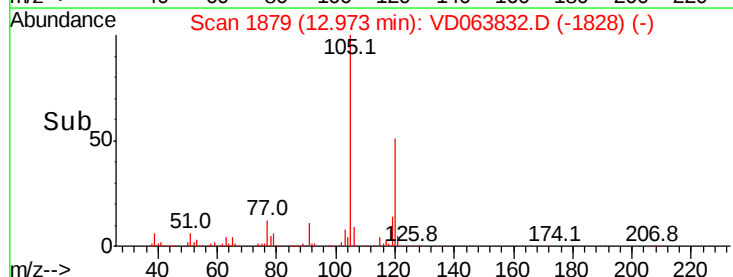
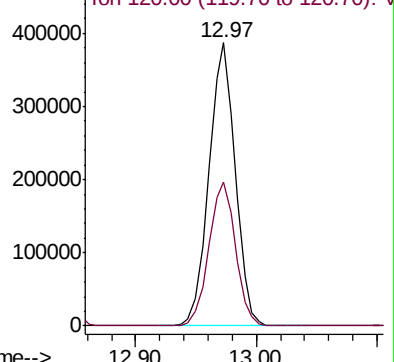
Ion Ratio Lower Upper

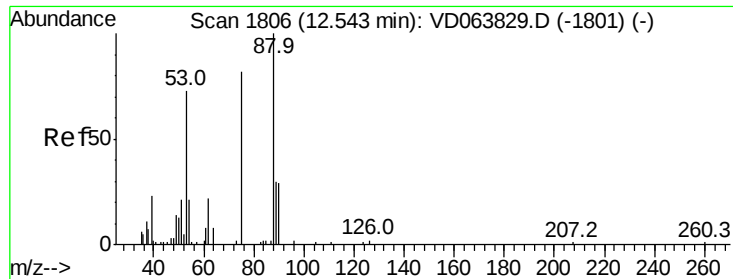
105 100

120 51.4 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 49.021 ug/l

RT: 12.54 min Scan# 1806

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

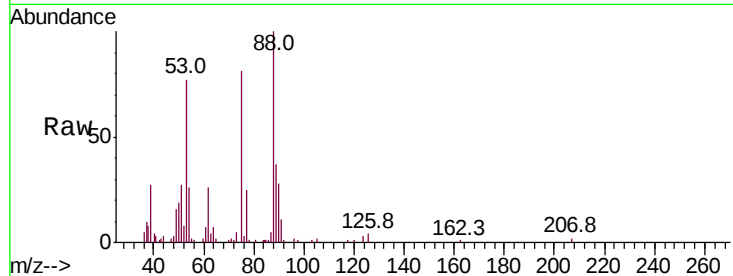
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 75 Resp: 38299

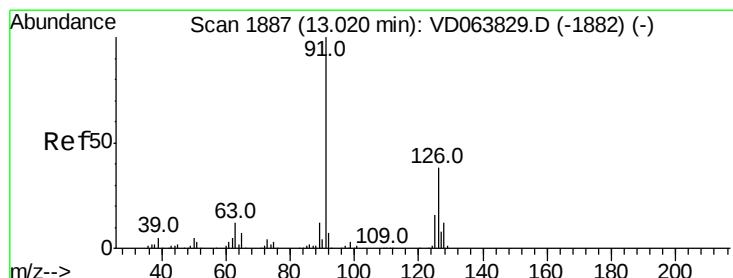
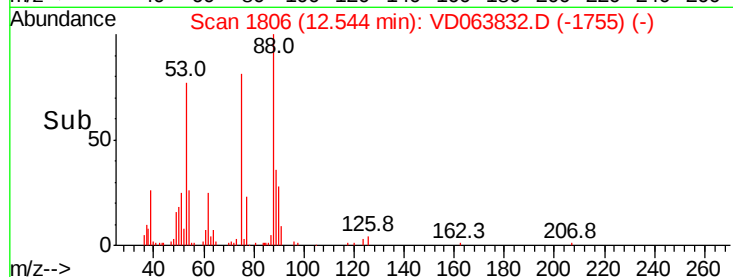
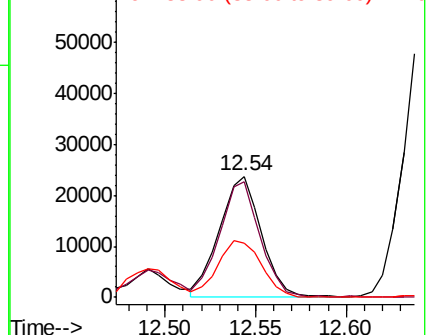
Ion	Ratio	Lower	Upper
75	100		
53	91.8	76.5	114.7
89	48.8	37.0	55.6



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC



#82

4-Chlorotoluene

Concen: 48.902 ug/l

RT: 13.01 min Scan# 1886

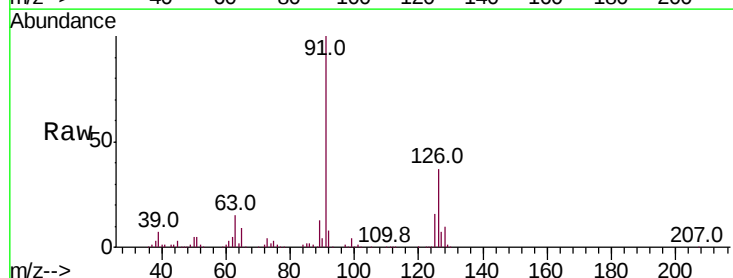
Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

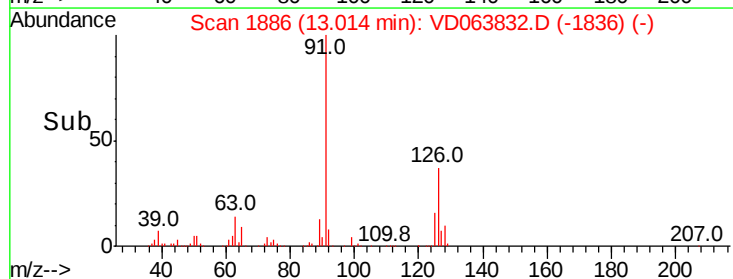
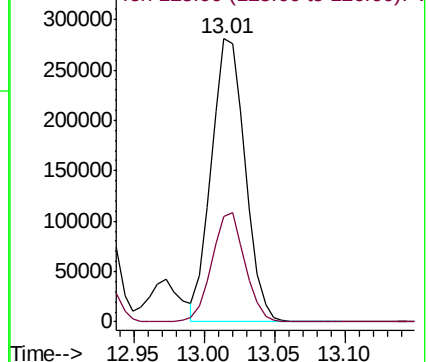
Tgt Ion: 91 Resp: 465275

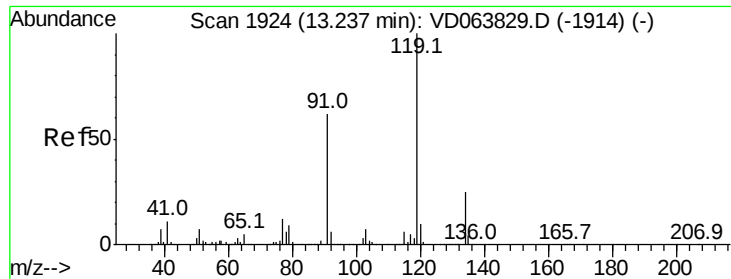
Ion	Ratio	Lower	Upper
91	100		
126	37.7	18.6	55.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.90 (125.60 to 126.60): V

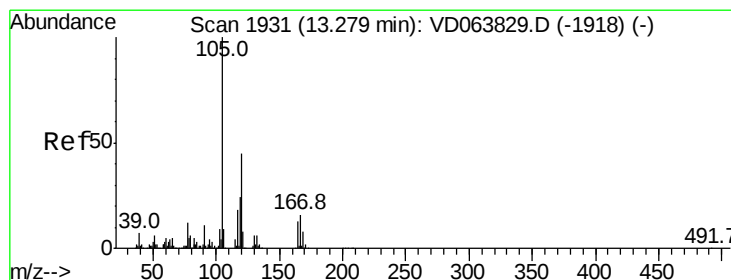
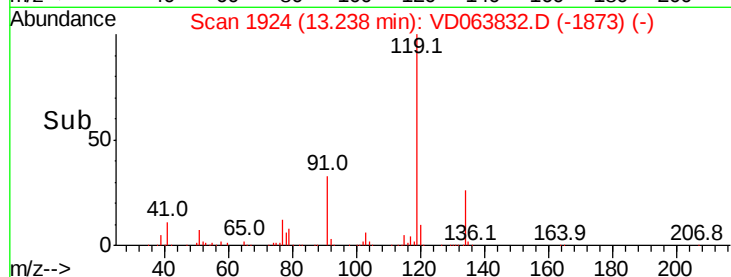
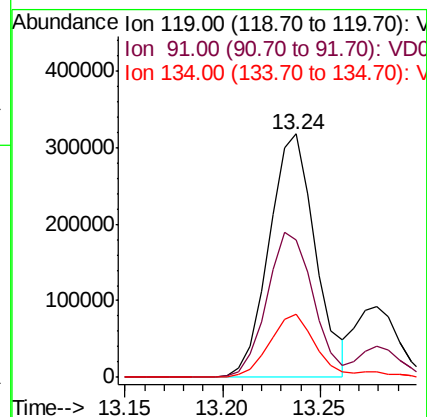
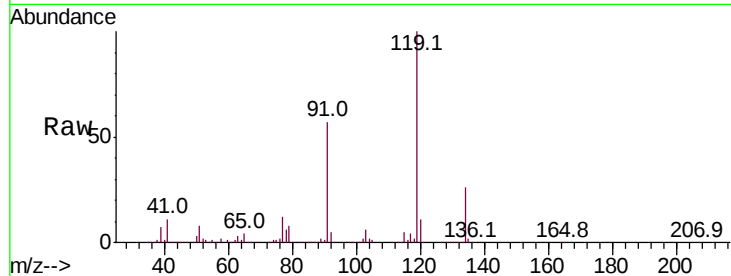




#83
tert-Butylbenzene
Concen: 51.079 ug/l
RT: 13.24 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

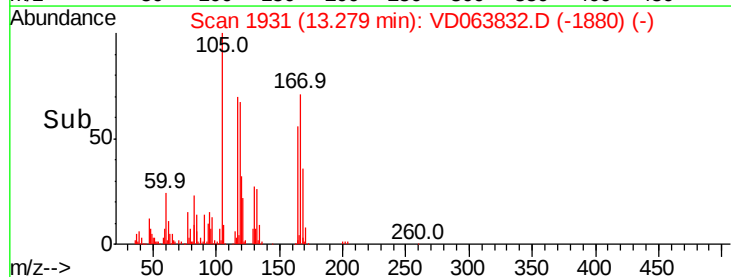
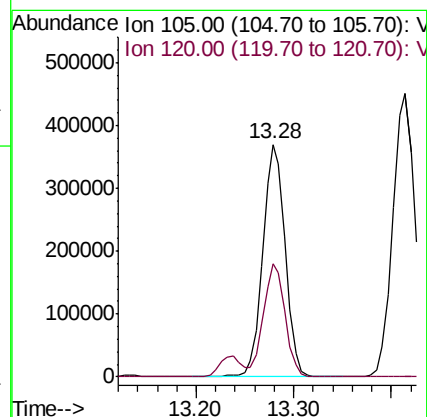
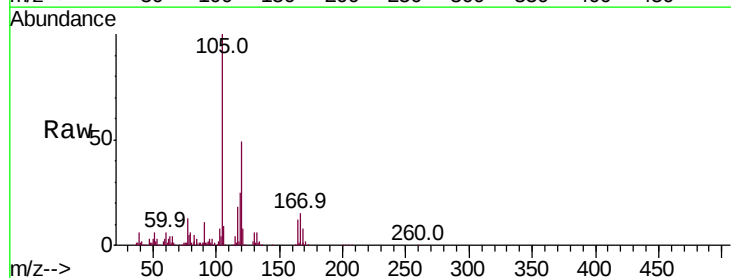
Instrument :
MSVOA_D
ClientSampleId :

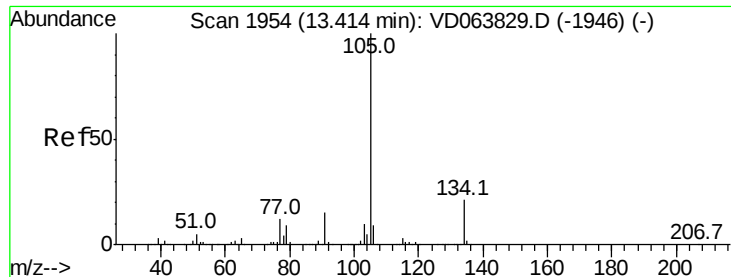
Tot Ion:119 Resp: 522932
Ion Ratio Lower Upper
119 100
91 59.7 30.8 92.3
134 27.0 13.2 39.6



#84
1,2,4-Trimethylbenzene
Concen: 50.222 ug/l
RT: 13.28 min Scan# 1931
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion:105 Resp: 597388
Ion Ratio Lower Upper
105 100
120 47.6 23.0 69.0





#85

sec-Butylbenzene

Concen: 50.300 ug/l

RT: 13.41 min Scan# 1954

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

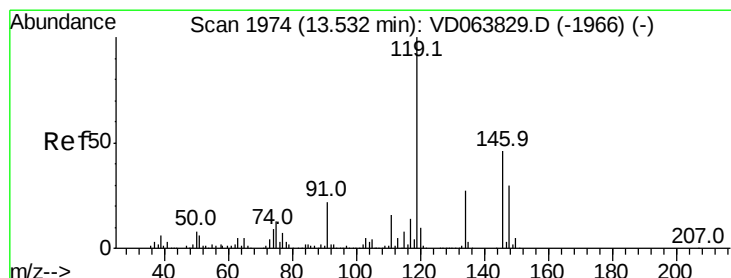
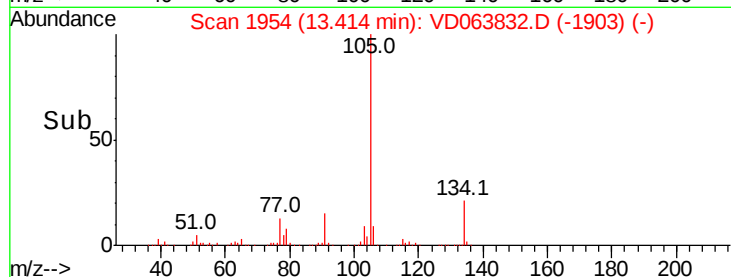
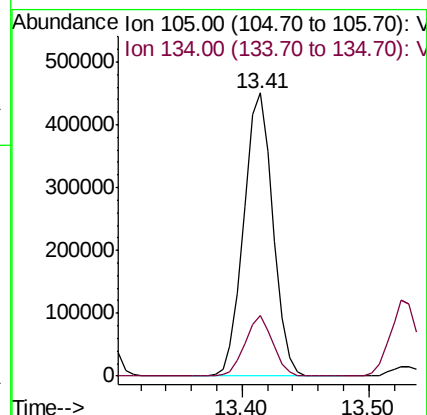
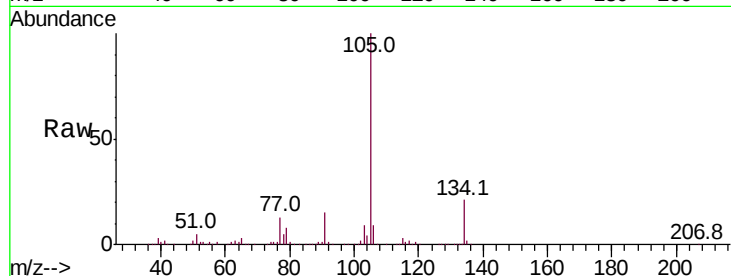
ClientSampled :

Tot Ion:105 Resp: 716556

Ion Ratio Lower Upper

105 100

134 20.5 10.7 31.9



#86

p-Isopropyltoluene

Concen: 50.133 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

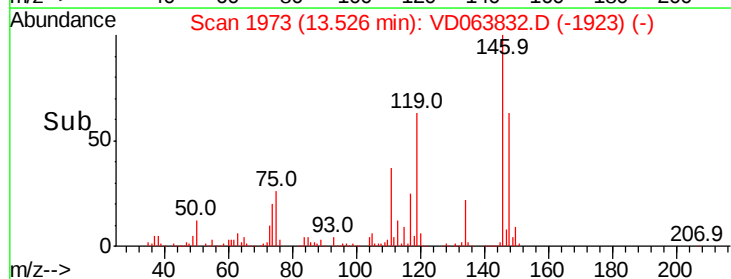
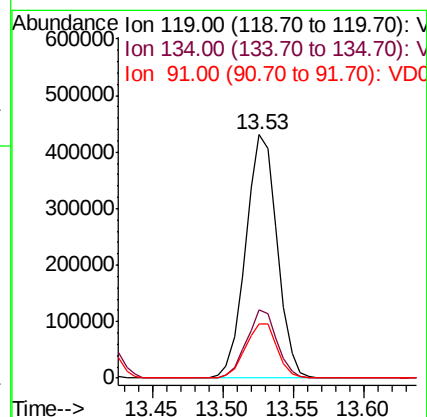
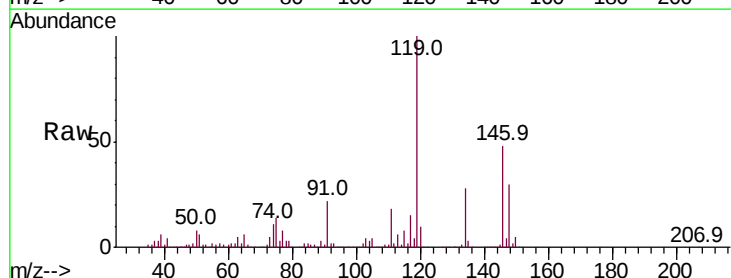
Tgt Ion:119 Resp: 670736

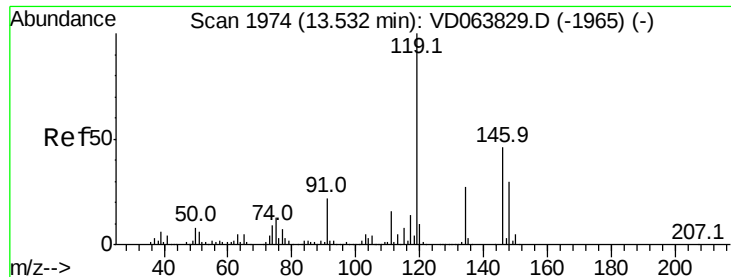
Ion Ratio Lower Upper

119 100

134 27.2 13.2 39.6

91 22.8 11.4 34.1





#87

1,3-Dichlorobenzene

Concen: 50.938 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.01 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

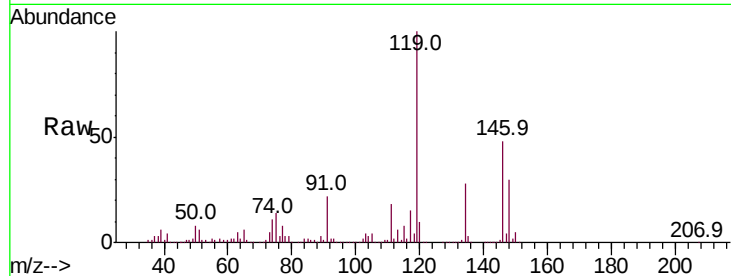
Tot Ion:146 Resp: 337821

Ion Ratio Lower Upper

146 100

111 36.8 18.3 54.8

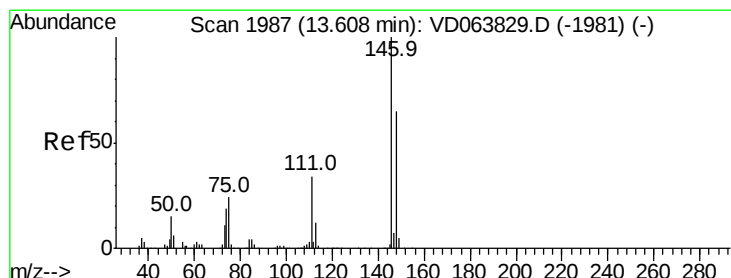
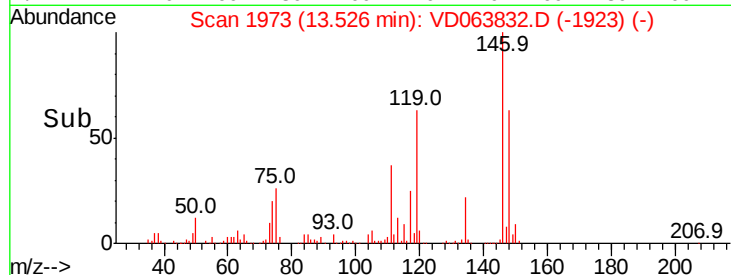
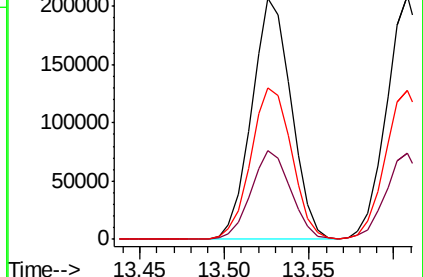
148 64.8 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 51.206 ug/l

RT: 13.61 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

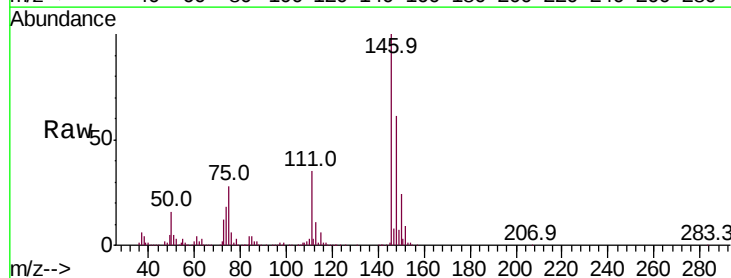
Tgt Ion:146 Resp: 337748

Ion Ratio Lower Upper

146 100

111 35.0 18.5 55.5

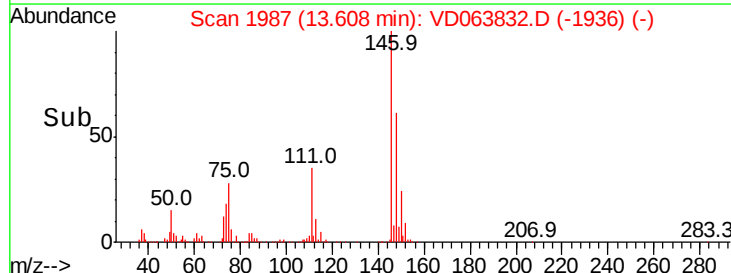
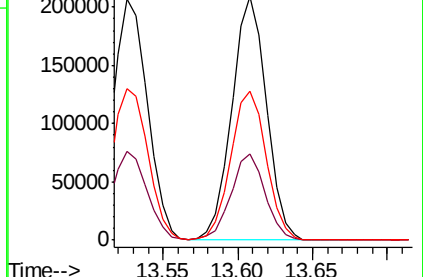
148 63.1 33.0 99.0

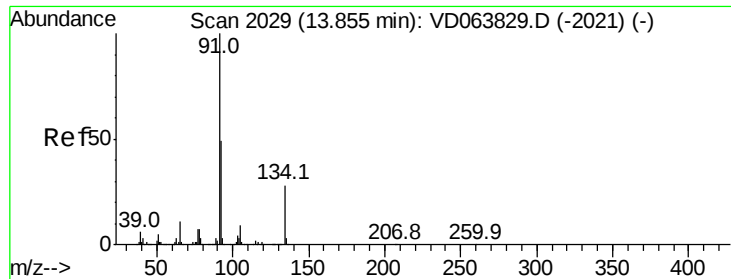


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

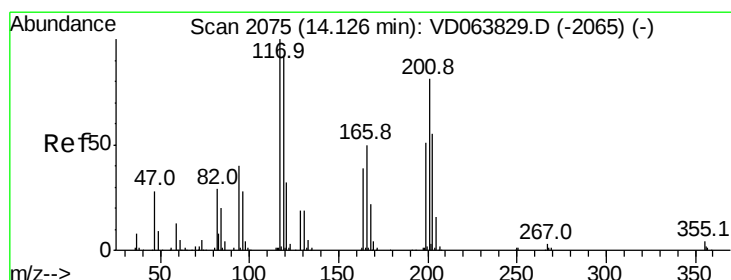
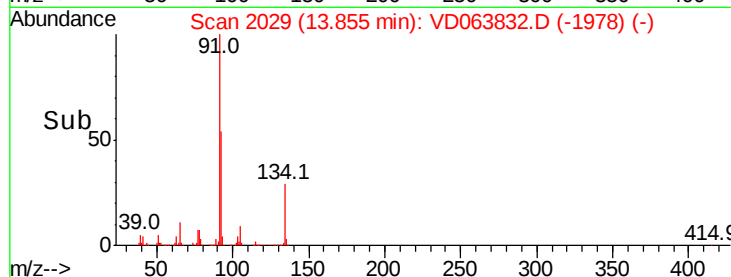
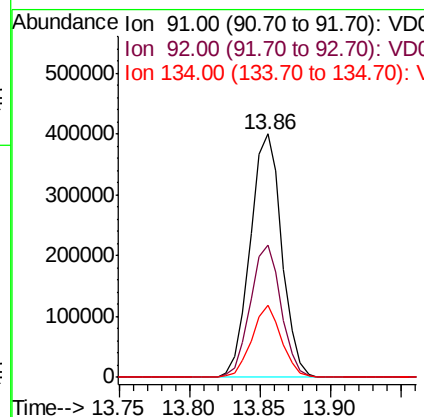
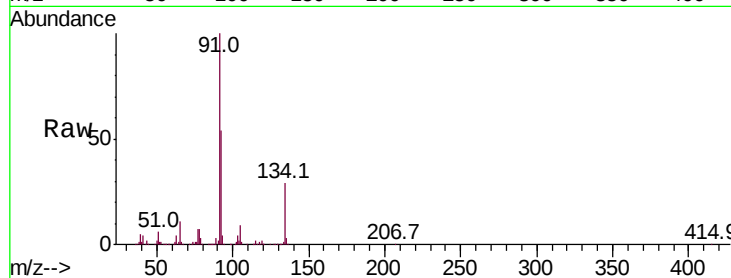




#89
n-Butylbenzene
Concen: 49.208 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

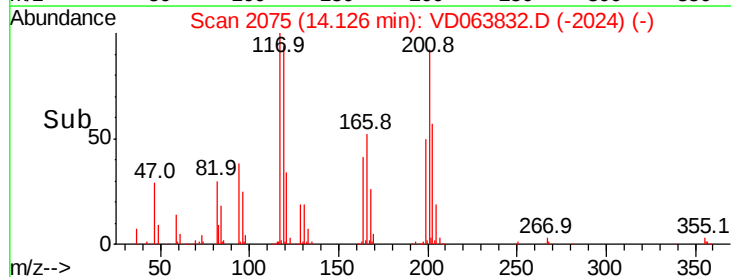
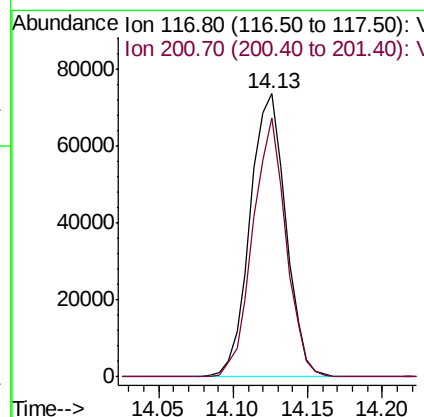
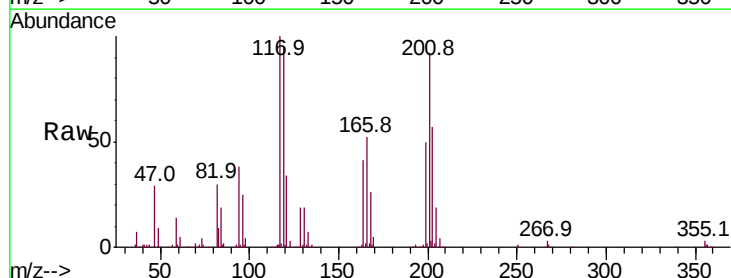
Instrument :
MSVOA_D
ClientSampleId :

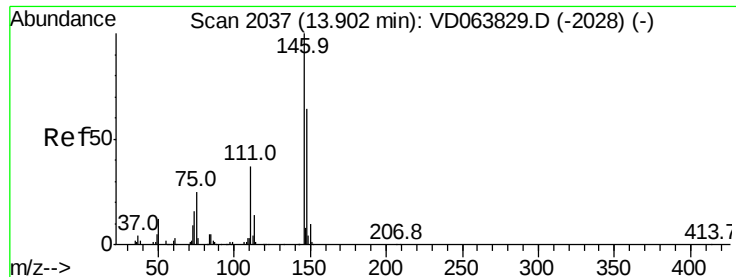
Tot Ion: 91 Resp: 626588
Ion Ratio Lower Upper
91 100
92 53.1 26.1 78.2
134 27.9 14.0 41.9



#90
Hexachloroethane
Concen: 49.317 ug/l
RT: 14.13 min Scan# 2075
Delta R.T. 0.00 min
Lab File: VD063832.D
Acq: 25 Sep 2019 19:43

Tgt Ion: 117 Resp: 122215
Ion Ratio Lower Upper
117 100
201 84.8 39.3 117.8





#91

1,2-Dichlorobenzene

Concen: 51.363 ug/l

RT: 13.90 min Scan# 2037

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

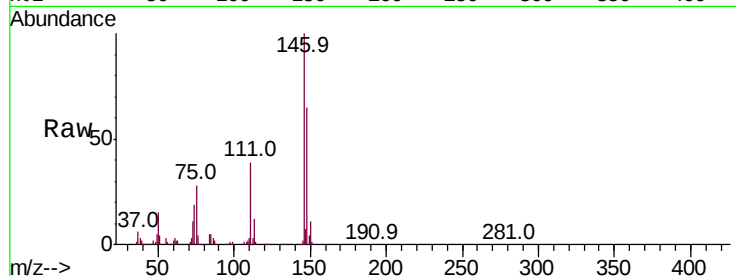
Tot Ion:146 Resp: 292198

Ion Ratio Lower Upper

146 100

111 38.6 18.9 56.7

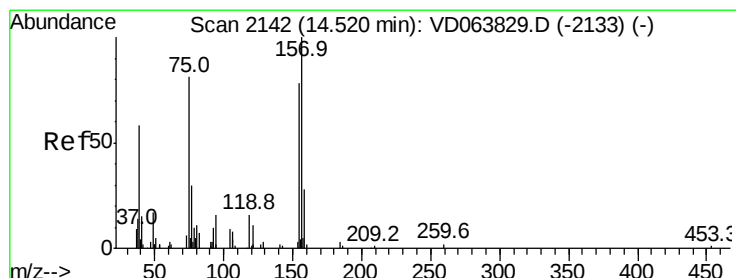
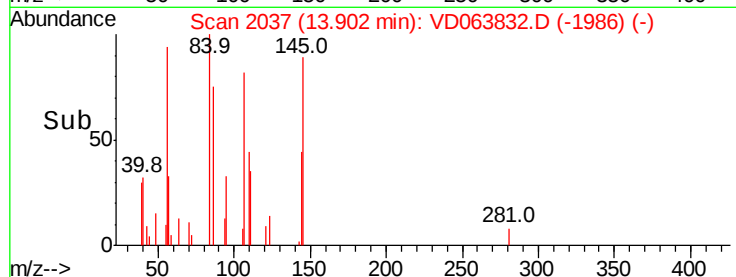
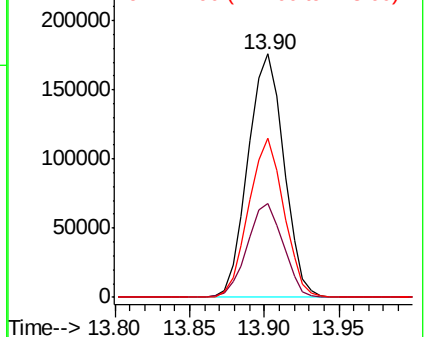
148 64.3 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): 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: 48.132 ug/l

RT: 14.52 min Scan# 2142

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

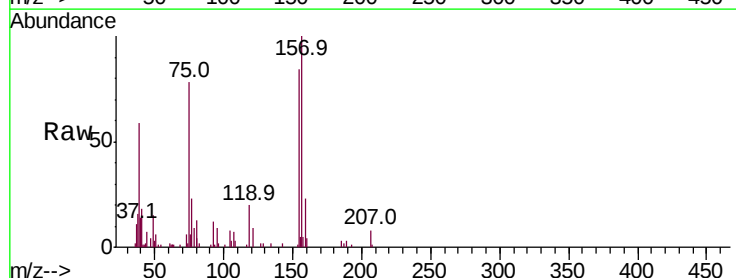
Tgt Ion: 75 Resp: 19026

Ion Ratio Lower Upper

75 100

155 99.1 48.0 144.0

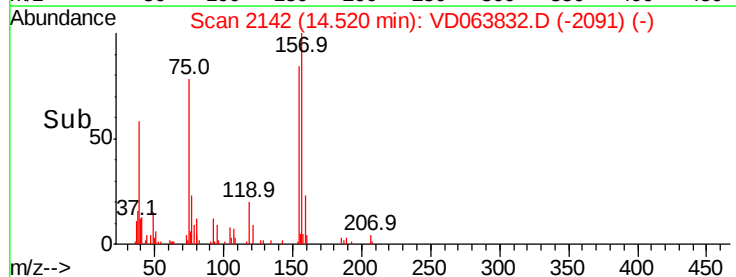
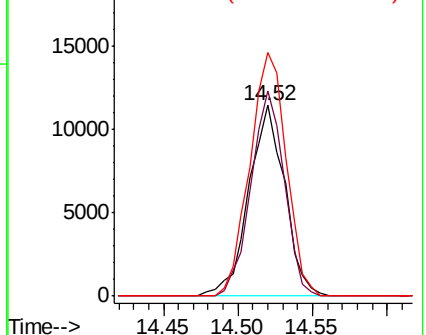
157 129.3 63.2 189.8

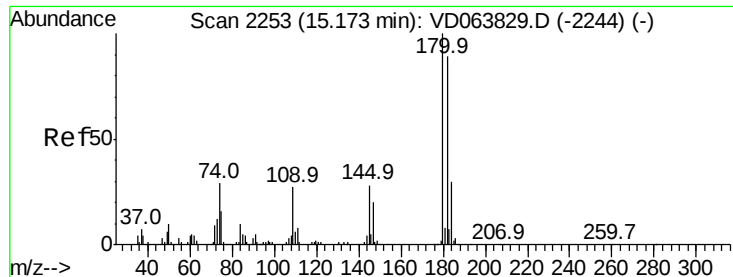


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

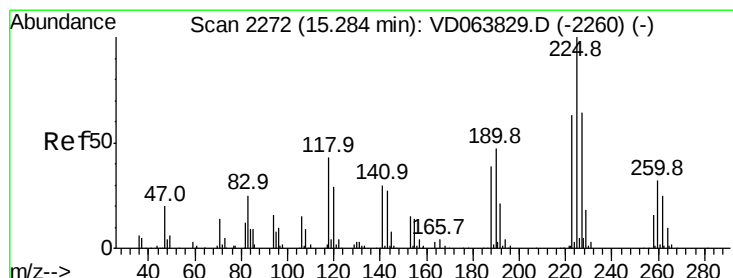
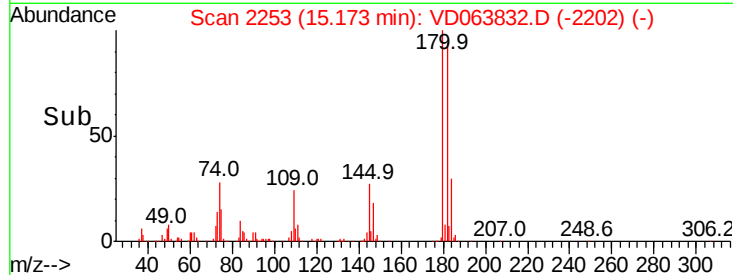
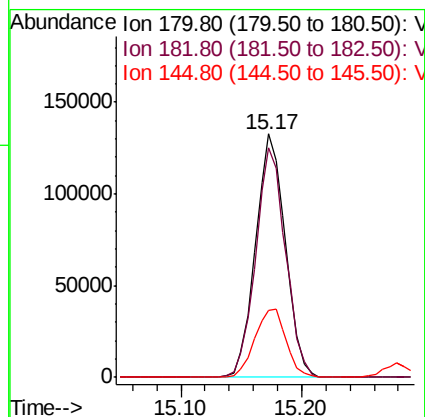
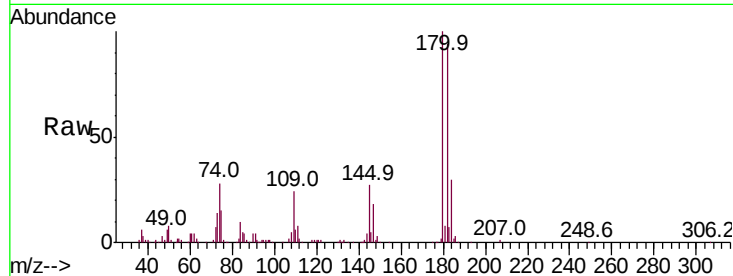




#93
 1,2,4-Trichlorobenzene
 Concen: 52.837 ug/l
 RT: 15.17 min Scan# 2253
 Delta R.T. 0.00 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

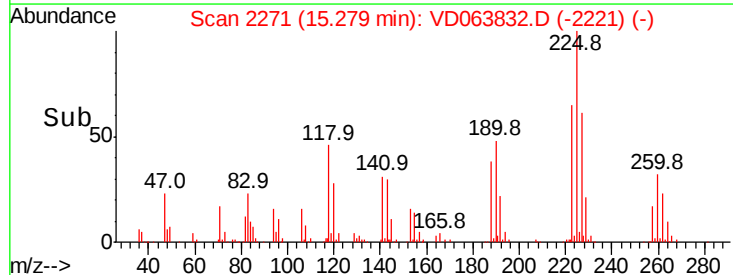
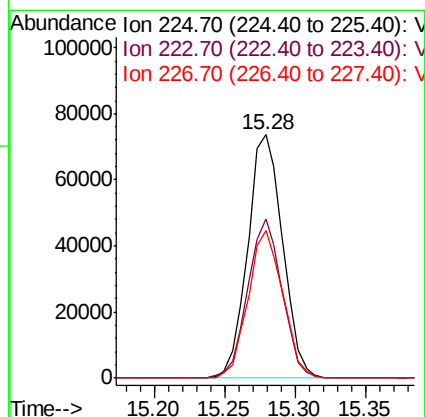
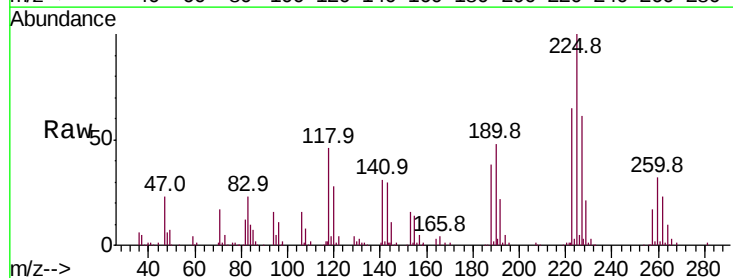
Instrument :
 MSVOA_D
 ClientSampleId :

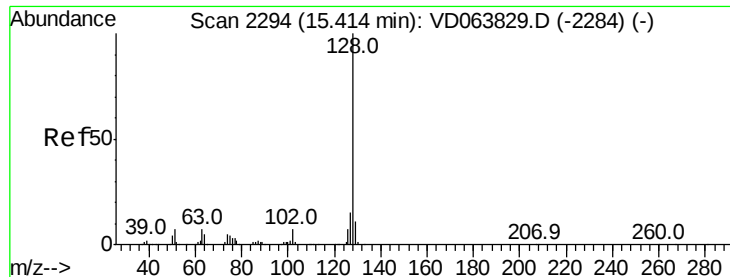
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	46.5	139.5
145	29.5	14.4	43.4



#94
 Hexachlorobutadiene
 Concen: 52.425 ug/l
 RT: 15.28 min Scan# 2271
 Delta R.T. -0.01 min
 Lab File: VD063832.D
 Acq: 25 Sep 2019 19:43

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	32.8	98.3
227	60.0	32.8	98.3





#95

Naphthalene

Concen: 51.694 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

Instrument :

MSVOA_D

ClientSampleId :

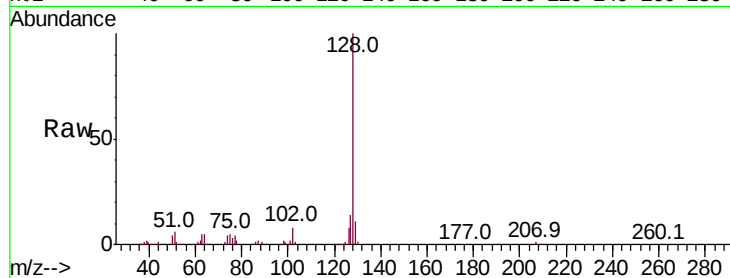
Tot Ion:128 Resp: 401042

Ion Ratio Lower Upper

128 100

127 13.8 10.8 16.2

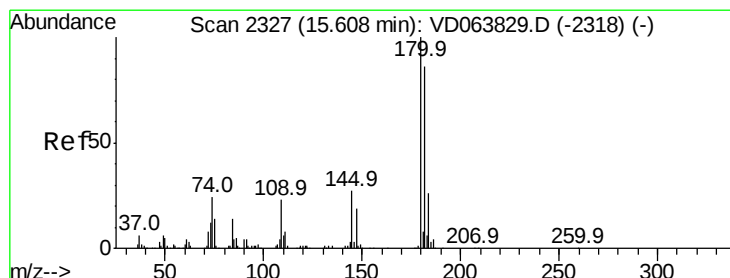
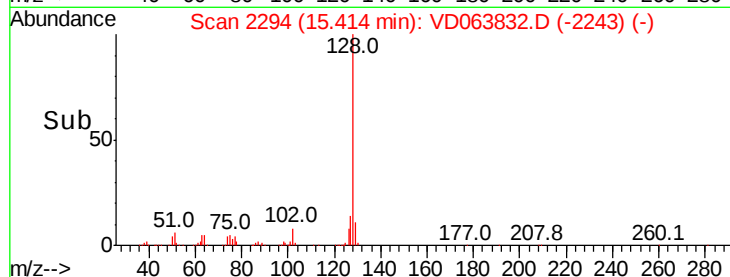
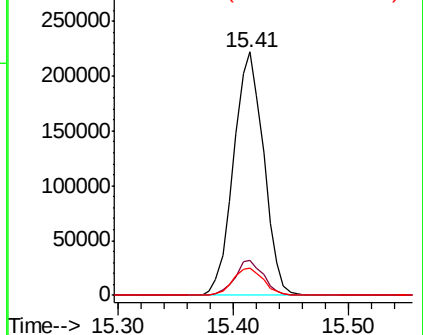
129 11.4 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 50.699 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VD063832.D

Acq: 25 Sep 2019 19:43

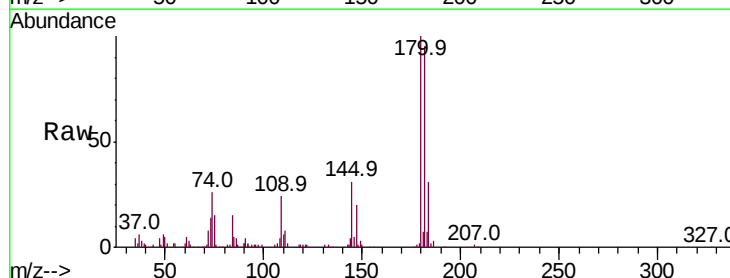
Tgt Ion:180 Resp: 194182

Ion Ratio Lower Upper

180 100

182 98.1 46.6 139.7

145 31.2 14.5 43.5



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

