

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092619\
 Data File : VD063838.D
 Acq On : 26 Sep 2019 15:02
 Operator : VA/SY
 Sample : MDL1
 Misc : 5.00µ/5.00mL/MSVOA D/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Sep 26 18:12:56 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	212693	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.88	114	348239	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.66	117	330873	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.59	152	168389	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	110761	55.30	ug/l	0.00
Spiked Amount			Recovery	=	110.60%	
35) Dibromofluoromethane	7.94	113	106342	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
50) Toluene-d8	10.36	98	432693	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
62) 4-Bromofluorobenzene	12.64	95	143755	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	6032	4.135	ug/l	80
3) Chloromethane	2.22	50	19247	Below Cal		97
4) Vinyl Chloride	2.36	62	17233	3.820	ug/l	96
5) Bromomethane	2.78	94	11714	4.438	ug/l	94
6) Chloroethane	2.94	64	11624	Below Cal		91
7) Trichlorofluoromethane	3.28	101	25641	4.227	ug/l	96
8) Diethyl Ether	3.71	74	4410	2.653	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.11	101	6823	3.792	ug/l	98
10) Methyl Iodide	4.33	142	7718	3.593	ug/l	99
11) Tert butyl alcohol	5.28	59	2753	9.839	ug/l #	72
12) 1,1-Dichloroethene	4.07	96	6582	3.624	ug/l	87
13) Acrolein	3.95	56	4073	21.438	ug/l #	55
14) Allyl chloride	4.74	41	12286	4.280	ug/l #	89
15) Acrylonitrile	5.47	53	8281	18.954	ug/l #	16
16) Acetone	4.18	43	11105	14.554	ug/l	98
17) Carbon Disulfide	4.42	76	24046	3.917	ug/l	99
18) Methyl Acetate	4.75	43	5183	2.360	ug/l	97
19) Methyl tert-butyl Ether	5.52	73	17884	3.933	ug/l #	76
20) Methylene Chloride	5.00	84	16196	2.593	ug/l	93
21) trans-1,2-Dichloroethene	5.50	96	8179	3.869	ug/l #	83
22) Diisopropyl ether	6.39	45	23686	3.995	ug/l #	97
23) Vinyl Acetate	6.34	43	65976	18.812	ug/l	100
24) 1,1-Dichloroethane	6.30	63	14668	4.072	ug/l #	91
25) 2-Butanone	7.26	43	12496	21.262	ug/l #	85
26) 2,2-Dichloropropane	7.24	77	13254	3.934	ug/l	94
27) cis-1,2-Dichloroethene	7.24	96	8511	3.588	ug/l	96
28) Bromochloromethane	7.57	49	5334	3.774	ug/l	86
29) Tetrahydrofuran	7.59	42	6725	19.097	ug/l	99
30) Chloroform	7.74	83	15789	4.035	ug/l	89
31) Cyclohexane	8.00	56	17231	1.234	ug/l #	75
32) 1,1,1-Trichloroethane	7.93	97	13569	3.835	ug/l	97
36) 1,1-Dichloropropene	8.13	75	11940	3.759	ug/l #	93
37) Ethyl Acetate	7.34	43	5987	2.447	ug/l #	95
38) Carbon Tetrachloride	8.11	117	11224	3.395	ug/l #	84

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.37	83	15080	3.813	ug/l #	90
40) Benzene	8.37	78	31779	3.633	ug/l	98
41) Methacrylonitrile	7.56	41	2858	1.733	ug/l #	82
42) 1,2-Dichloroethane	8.45	62	9285	3.630	ug/l	97
43) Isopropyl Acetate	8.48	43	10157	3.819	ug/l #	80
44) Trichloroethene	9.13	130	9103	3.593	ug/l	94
45) 1,2-Dichloropropane	9.40	63	8424	3.898	ug/l #	80
46) Dibromomethane	9.50	93	4487	3.679	ug/l	88
47) Bromodichloromethane	9.68	83	11433	3.636	ug/l #	88
48) Methyl methacrylate	9.48	41	5064	4.186	ug/l	87
49) 1,4-Dioxane	9.50	88	1113	65.413	ug/l #	41
51) 4-Methyl-2-Pentanone	10.25	43	25269	18.860	ug/l	97
52) Toluene	10.42	92	21368	3.602	ug/l	98
53) t-1,3-Dichloropropene	10.64	75	11087	3.557	ug/l	99
54) cis-1,3-Dichloropropene	10.11	75	12717	3.595	ug/l #	89
55) 1,1,2-Trichloroethane	10.82	97	6027	3.497	ug/l #	66
56) Ethyl methacrylate	10.68	69	8195	3.741	ug/l	89
57) 1,3-Dichloropropane	10.97	76	11647	3.977	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.96	63	17834	18.216	ug/l	99
59) 2-Hexanone	11.00	43	16578	17.342	ug/l	96
60) Dibromochloromethane	11.15	129	8003	3.519	ug/l	97
61) 1,2-Dibromoethane	11.26	107	6370	3.697	ug/l	99
64) Tetrachloroethene	10.88	164	8381	3.760	ug/l #	88
65) Chlorobenzene	11.68	112	22384	3.363	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.76	131	7766	3.175	ug/l	90
67) Ethyl Benzene	11.76	91	41875	3.483	ug/l	99
68) m/p-Xylenes	11.87	106	33439	7.243	ug/l	93
69) o-Xylene	12.19	106	14778	3.391	ug/l	95
70) Styrene	12.21	104	25191	3.416	ug/l	95
71) Bromoform	12.38	173	3939	2.899	ug/l #	78
73) Isopropylbenzene	12.49	105	41315	3.592	ug/l	95
74) N-amyl acetate	12.30	43	9342	3.710	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.75	83	7463	3.893	ug/l #	28
76) 1,2,3-Trichloropropane	12.80	75	9533	7.466	ug/l #	100
77) Bromobenzene	12.78	156	10139	3.668	ug/l	95
78) n-propylbenzene	12.84	91	51726	3.823	ug/l	92
79) 2-Chlorotoluene	12.92	91	28123	3.853	ug/l	93
80) 1,3,5-Trimethylbenzene	12.97	105	34789	3.628	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.64	75	77867	121.796	ug/l #	11
82) 4-Chlorotoluene	13.02	91	28251	3.629	ug/l	100
83) tert-Butylbenzene	13.24	119	29842	3.562	ug/l	94
84) 1,2,4-Trimethylbenzene	13.28	105	34551	3.550	ug/l	97
85) sec-Butylbenzene	13.41	105	42697	3.663	ug/l	99
86) p-Isopropyltoluene	13.53	119	37310	3.408	ug/l	97
87) 1,3-Dichlorobenzene	13.53	146	19324	3.561	ug/l	94
88) 1,4-Dichlorobenzene	13.61	146	19716	3.653	ug/l	90
89) n-Butylbenzene	13.85	91	38556	3.700	ug/l	98
90) Hexachloroethane	14.13	117	6365	3.139	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	17330	3.723	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1659	5.129	ug/l	58

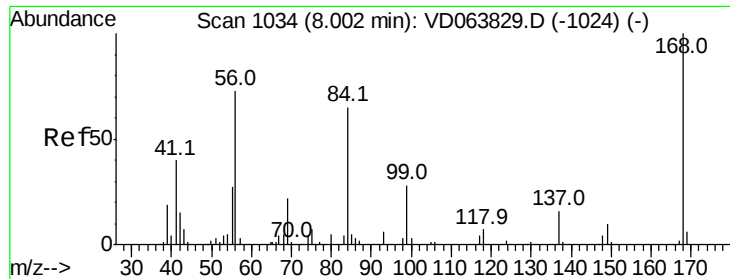
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD092619\
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Quant Title : SW846 8260
QLast Update : Thu Sep 26 12:03:05 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	13371	3.782	ug/l	96
94) Hexachlorobutadiene	15.28	225	7462	3.725	ug/l	94
95) Naphthalene	15.41	128	23300	3.670	ug/l	98
96) 1,2,3-Trichlorobenzene	15.61	180	11724	3.741	ug/l	97

(#) = 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: VD063838.D

Acq: 26 Sep 2019 15:02

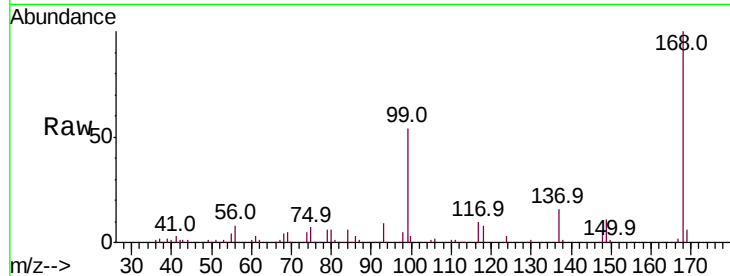
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 212693

Ion Ratio Lower Upper

168 100

99 53.3 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

100000

80000

60000

40000

20000

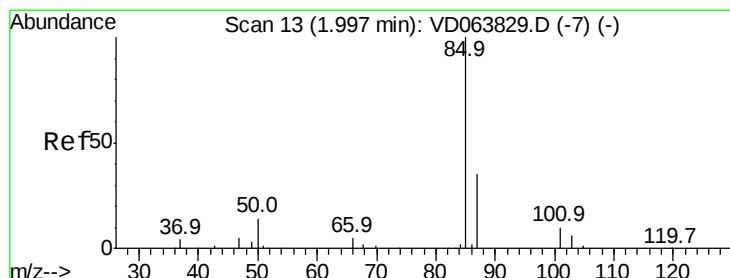
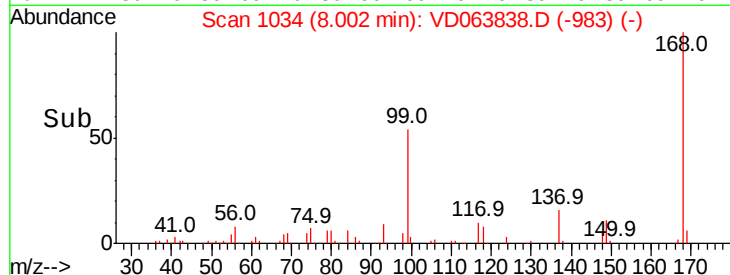
0

Time-->

7.90

8.00

8.10



#2

Dichlorodifluoromethane

Concen: 4.135 ug/l

RT: 2.00 min Scan# 14

Delta R.T. 0.01 min

Lab File: VD063838.D

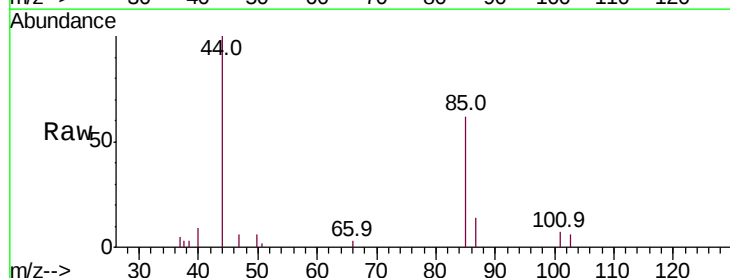
Acq: 26 Sep 2019 15:02

Tgt Ion: 85 Resp: 6032

Ion Ratio Lower Upper

85 100

87 22.8 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

5000

4000

3000

2000

1000

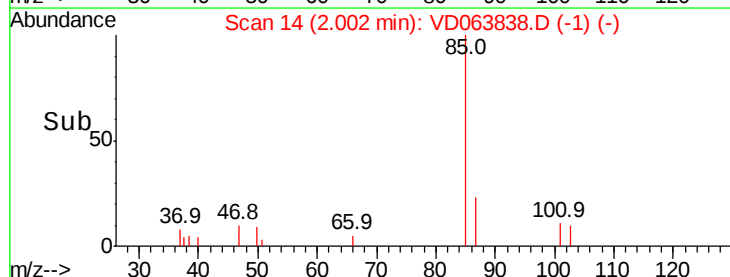
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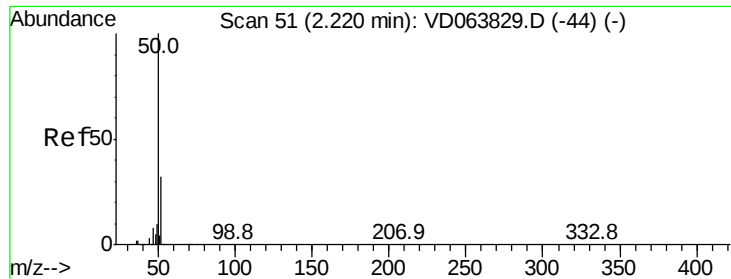
Time-->

1.95

2.00

2.05





#3

Chloromethane

Concen: Below Cal

RT: 2.22 min Scan# 51

Delta R.T. 0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

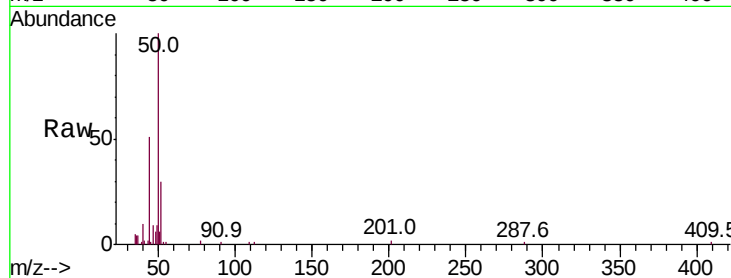
ClientSampleId :

Tot Ion: 50 Resp: 19247

Ion Ratio Lower Upper

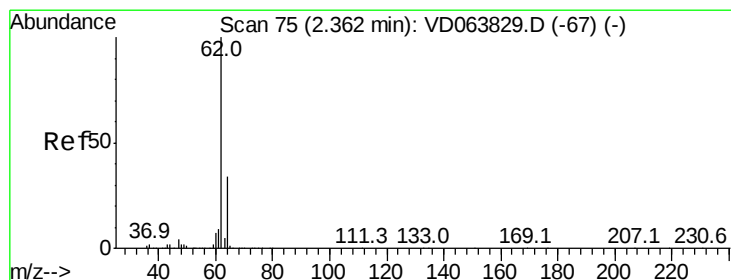
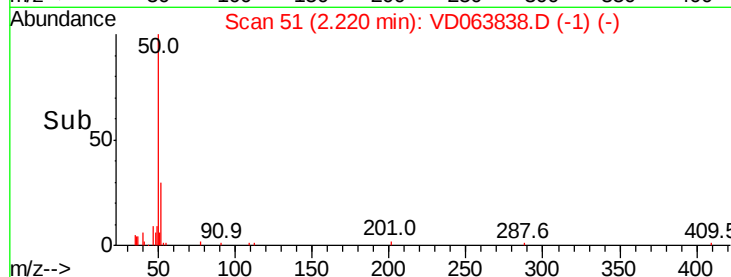
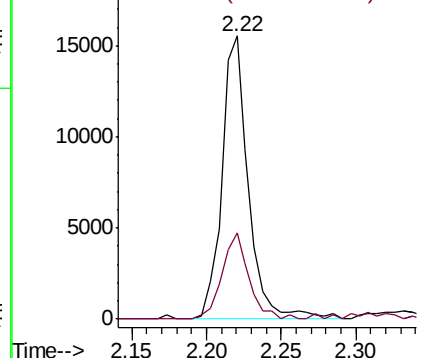
50 100

52 30.3 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: 3.820 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VD063838.D

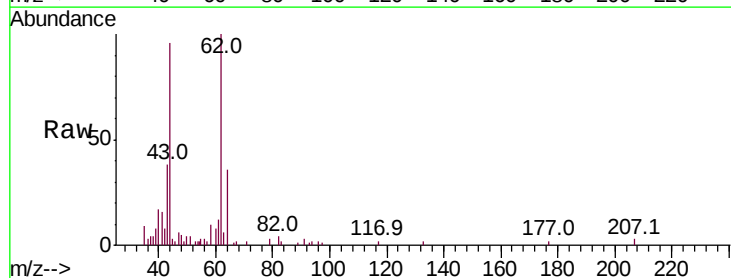
Acq: 26 Sep 2019 15:02

Tgt Ion: 62 Resp: 17233

Ion Ratio Lower Upper

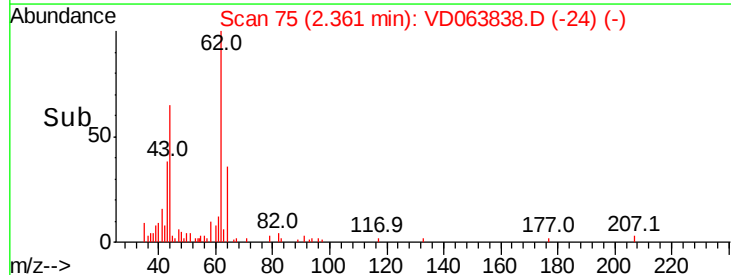
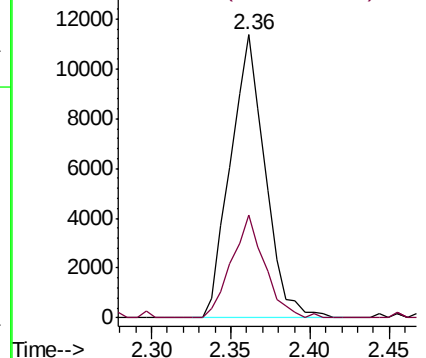
62 100

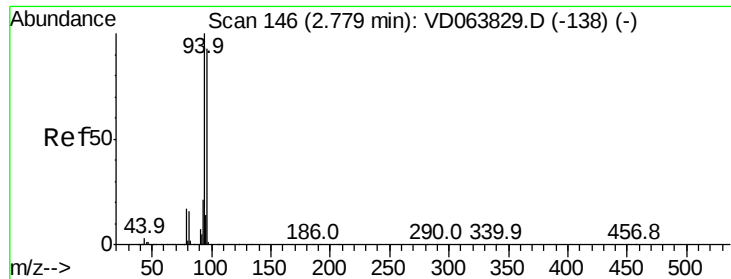
64 36.3 27.1 40.7



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 4.438 ug/l

RT: 2.78 min Scan# 146

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

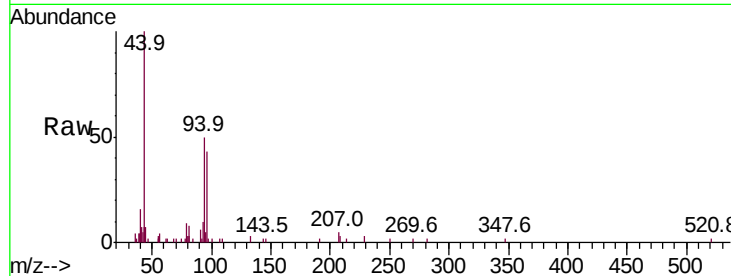
ClientSampleId :

Tot Ion: 94 Resp: 11714

Ion Ratio Lower Upper

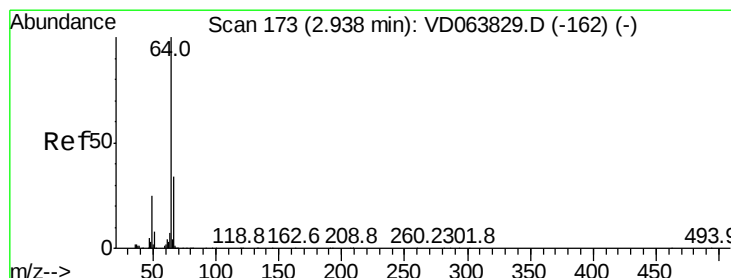
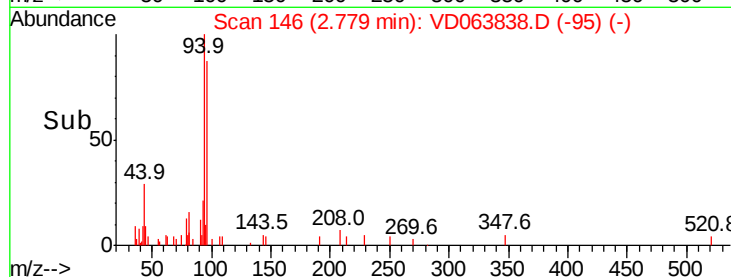
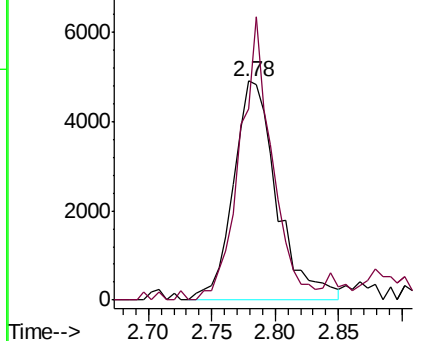
94 100

96 87.2 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: Below Cal

RT: 2.94 min Scan# 173

Delta R.T. -0.00 min

Lab File: VD063838.D

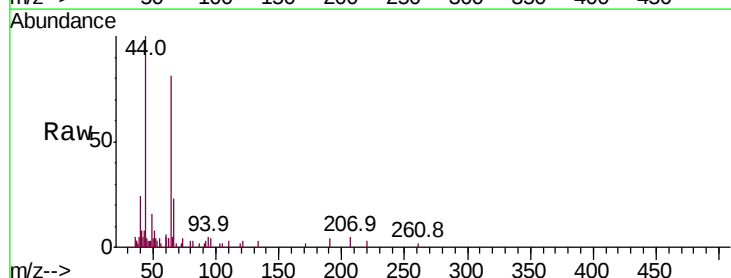
Acq: 26 Sep 2019 15:02

Tgt Ion: 64 Resp: 11624

Ion Ratio Lower Upper

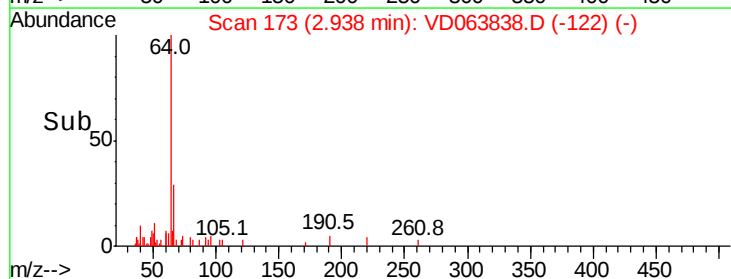
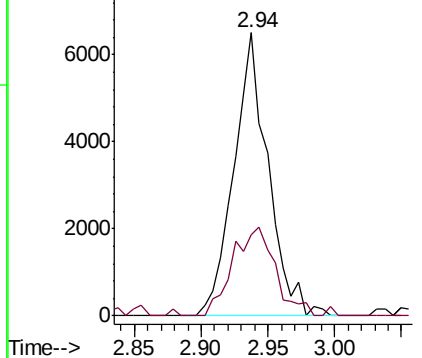
64 100

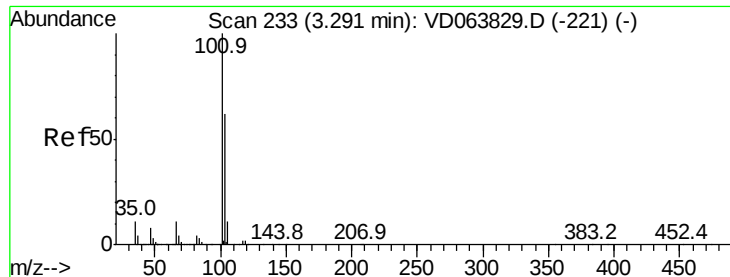
66 28.7 26.9 40.3



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



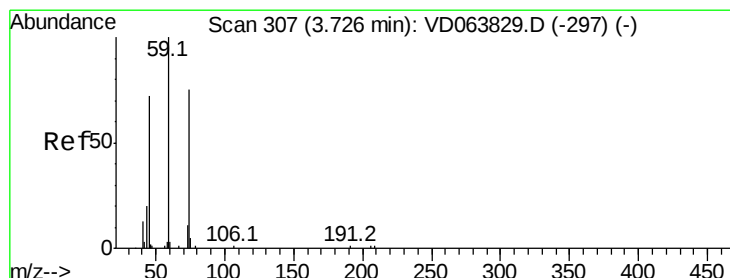
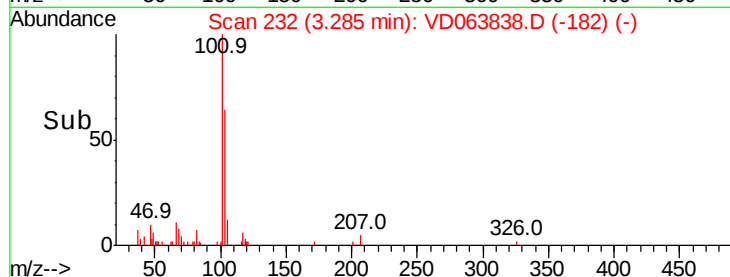
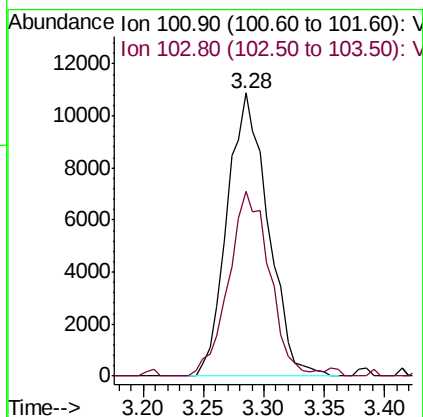
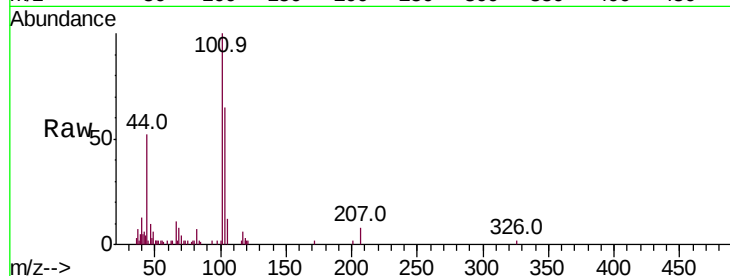


#7

Trichlorofluoromethane
 Concen: 4.227 ug/l
 RT: 3.28 min Scan# 232
 Delta R.T. -0.01 min
 Lab File: VD063838.D
 Acq: 26 Sep 2019 15:02

Instrument :
 MSVOA_D
 ClientSampleId :

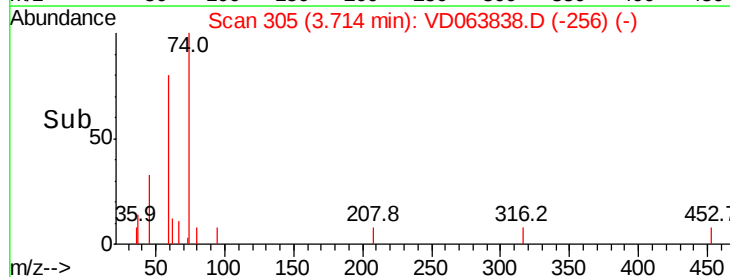
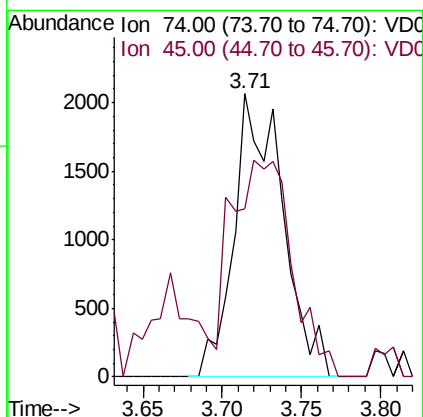
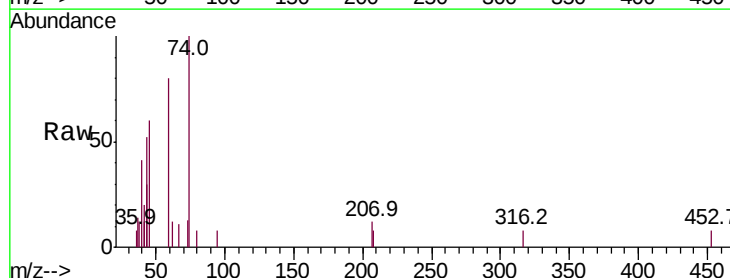
Tot Ion:101 Resp: 25641
 Ion Ratio Lower Upper
 101 100
 103 65.3 49.8 74.8

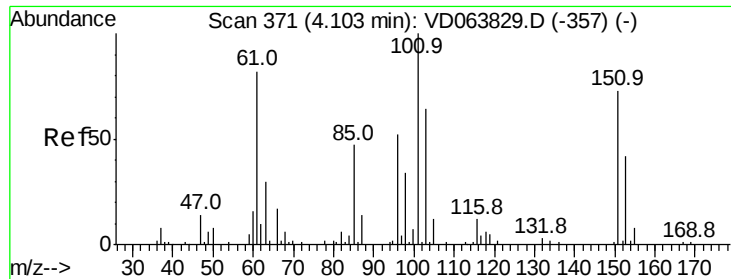


#8

Diethyl Ether
 Concen: 2.653 ug/l
 RT: 3.71 min Scan# 305
 Delta R.T. -0.01 min
 Lab File: VD063838.D
 Acq: 26 Sep 2019 15:02

Tgt Ion: 74 Resp: 4410
 Ion Ratio Lower Upper
 74 100
 45 97.0 48.9 146.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.792 ug/l

RT: 4.11 min Scan# 372

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

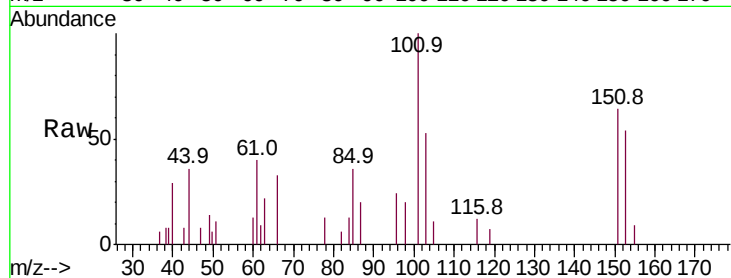
Tot Ion:101 Resp: 6823

Ion Ratio Lower Upper

101 100

85 47.4 37.8 56.6

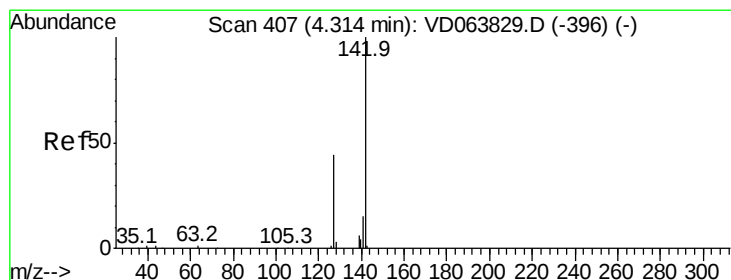
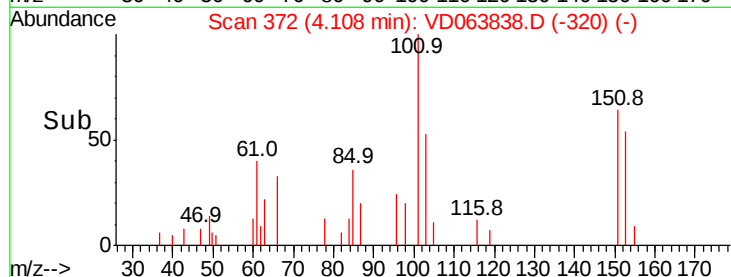
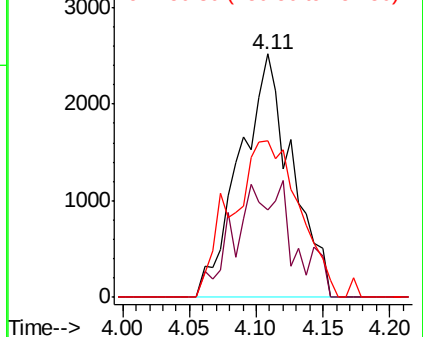
151 83.2 64.2 96.2



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: 3.593 ug/l

RT: 4.33 min Scan# 409

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

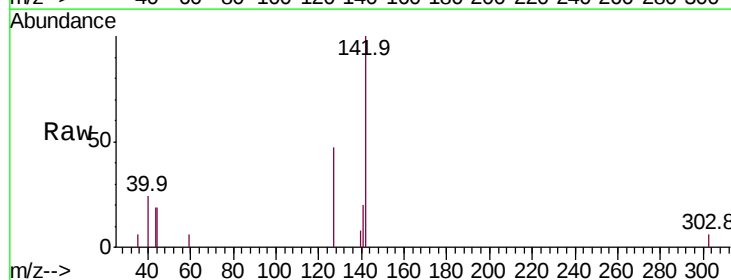
Tgt Ion:142 Resp: 7718

Ion Ratio Lower Upper

142 100

127 44.2 35.8 53.6

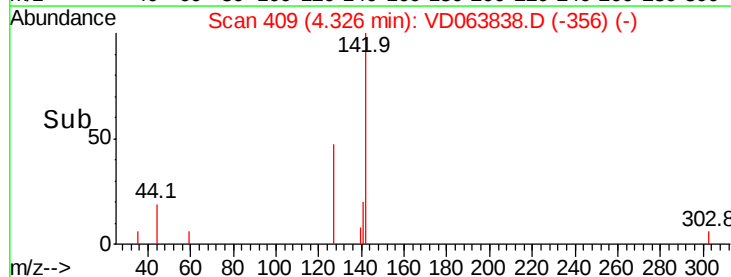
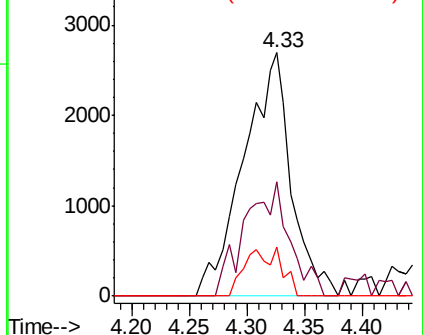
141 14.8 11.9 17.9

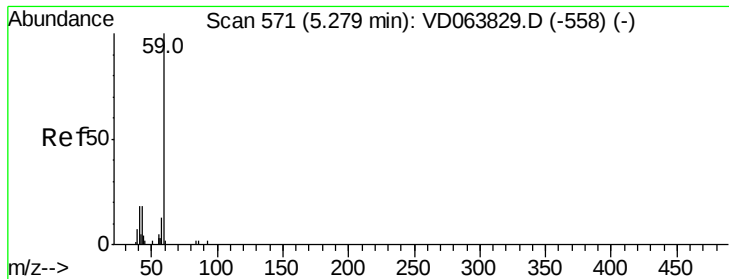


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

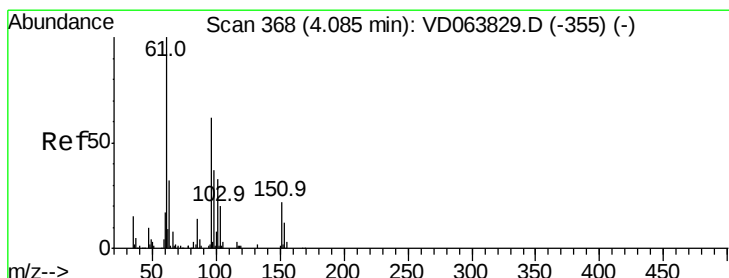
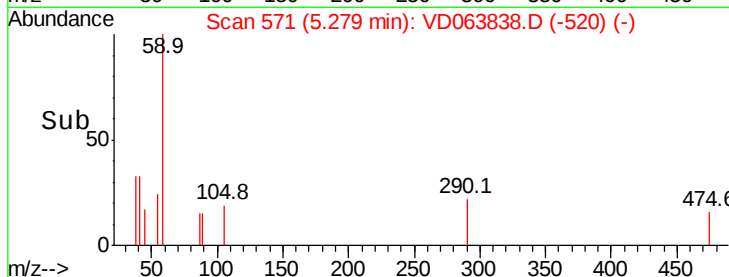
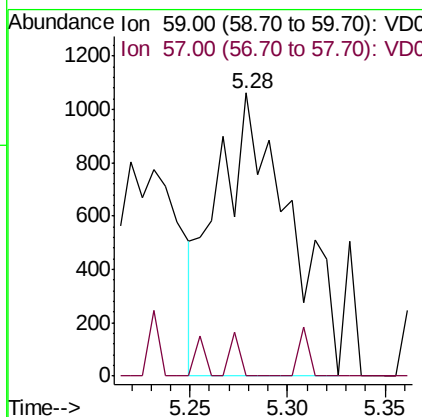
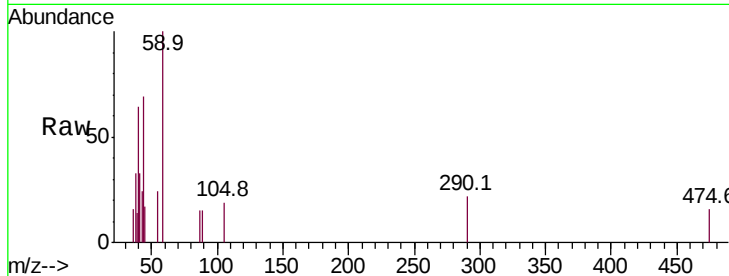




#11
Tert butyl alcohol
Concen: 9.839 ug/l
RT: 5.28 min Scan# 571
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

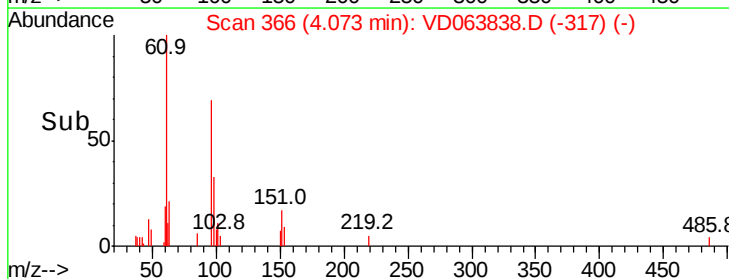
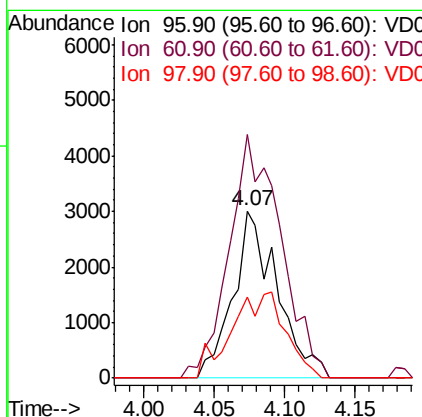
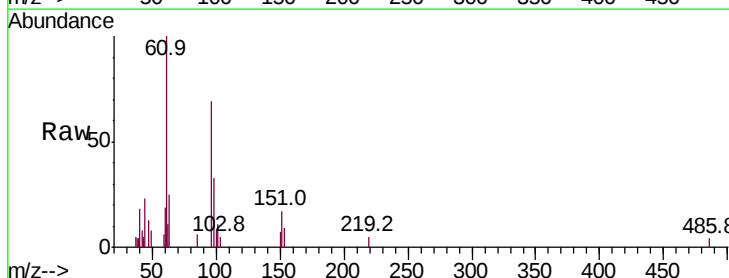
Instrument :
MSVOA_D
ClientSampleId :

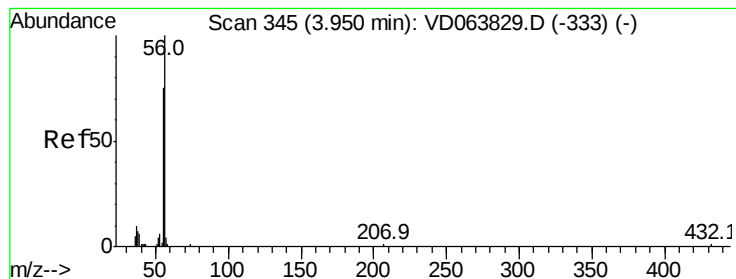
Tot Ion: 59 Resp: 2753
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#12
1,1-Dichloroethene
Concen: 3.624 ug/l
RT: 4.07 min Scan# 366
Delta R.T. -0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 96 Resp: 6582
Ion Ratio Lower Upper
96 100
61 145.4 129.0 193.4
98 48.3 47.8 71.6





#13

Acrolein

Concen: 21.438 ug/l

RT: 3.95 min Scan# 345

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

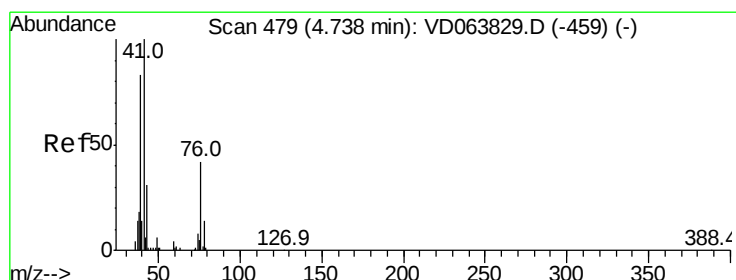
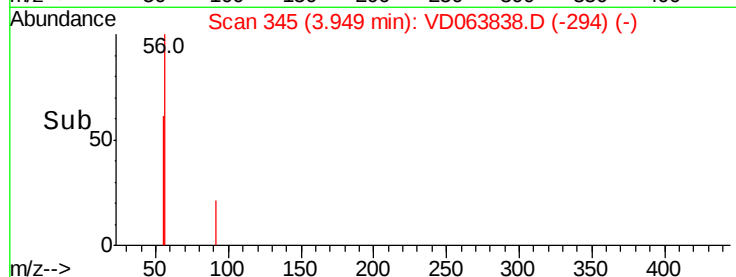
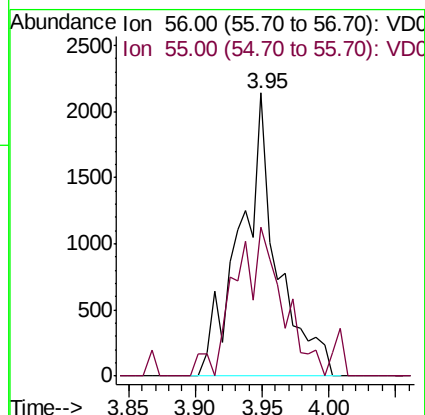
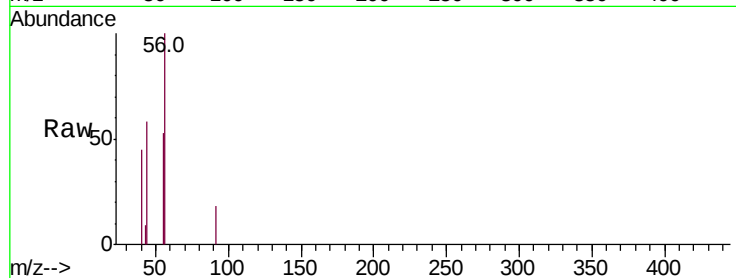
ClientSampleId :

Tot Ion: 56 Resp: 4073

Ion Ratio Lower Upper

56 100

55 32.5 55.0 82.6#



#14

Allyl chloride

Concen: 4.280 ug/l

RT: 4.74 min Scan# 479

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

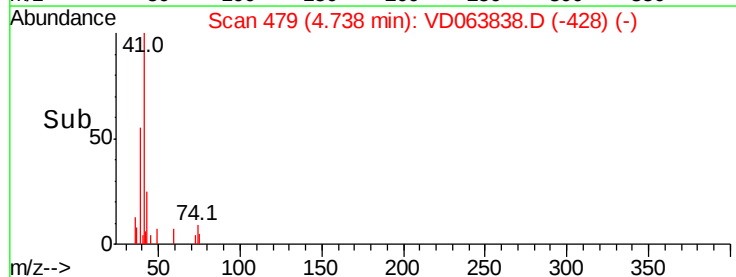
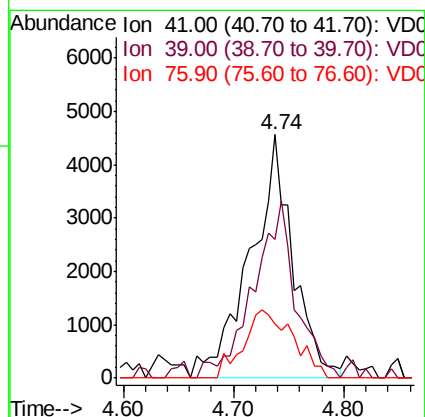
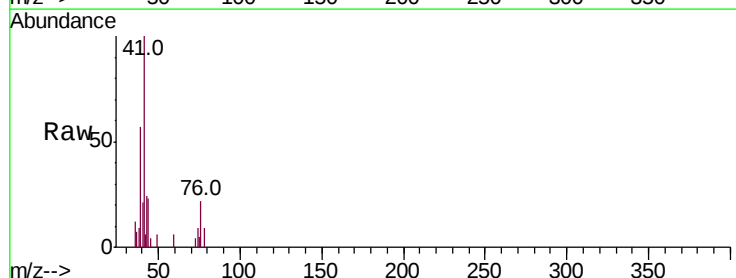
Tgt Ion: 41 Resp: 12286

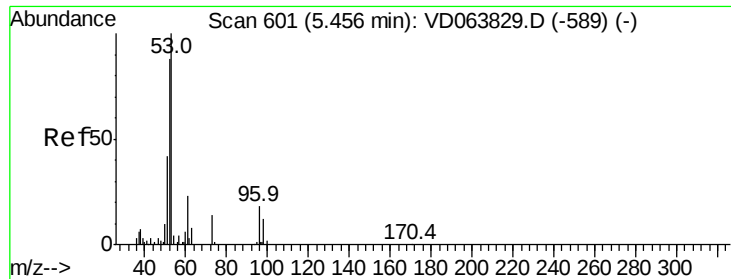
Ion Ratio Lower Upper

41 100

39 72.2 63.7 95.5

76 32.4 33.5 50.3#





#15

Acrylonitrile

Concen: 18.954 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.02 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

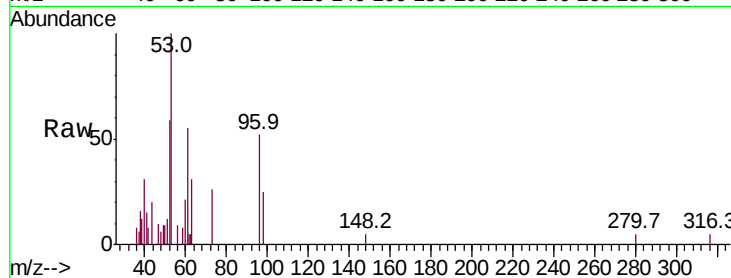
Tot Ion: 53 Resp: 8281

Ion Ratio Lower Upper

53 100

52 0.0 68.7 103.1#

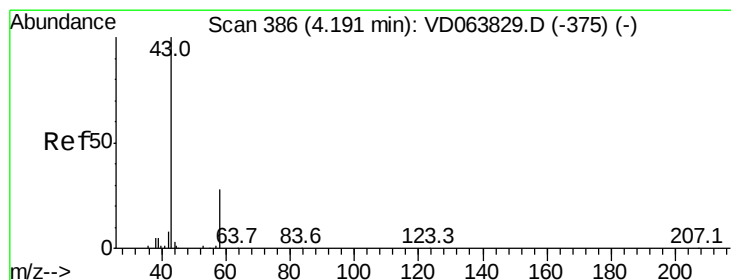
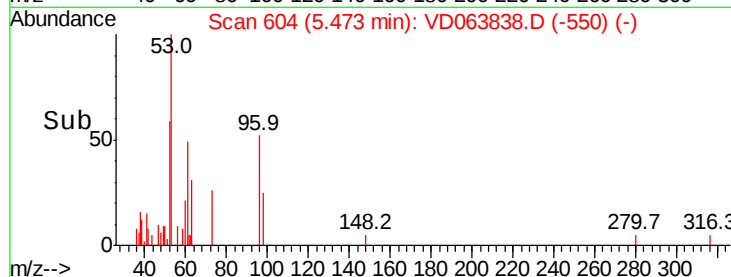
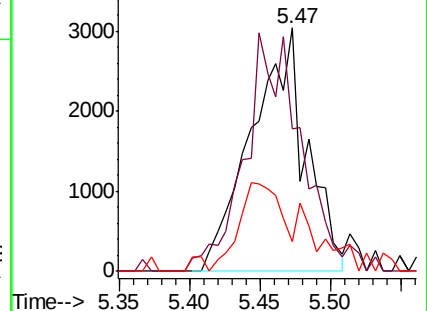
51 0.0 30.7 46.1#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 14.554 ug/l

RT: 4.18 min Scan# 385

Delta R.T. -0.01 min

Lab File: VD063838.D

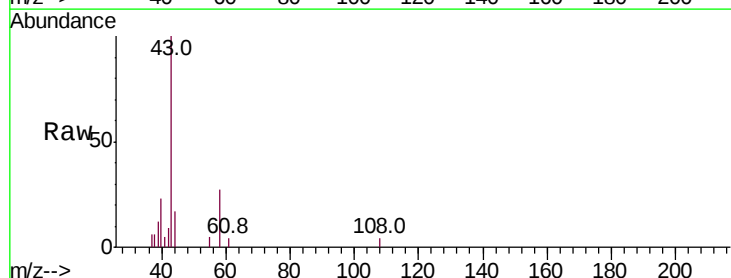
Acq: 26 Sep 2019 15:02

Tgt Ion: 43 Resp: 11105

Ion Ratio Lower Upper

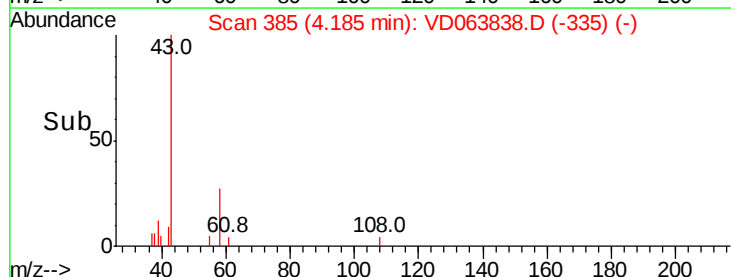
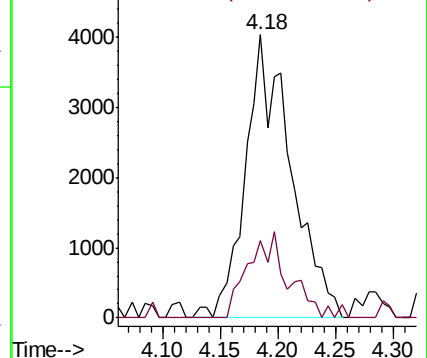
43 100

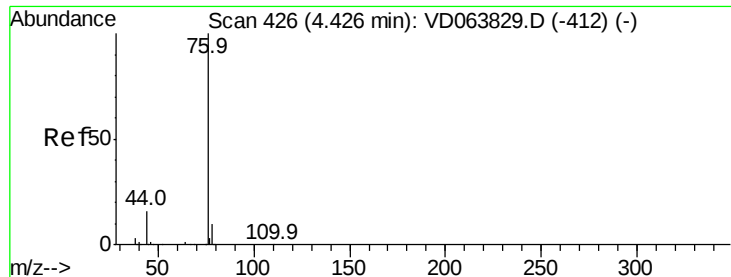
58 27.4 22.6 34.0



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

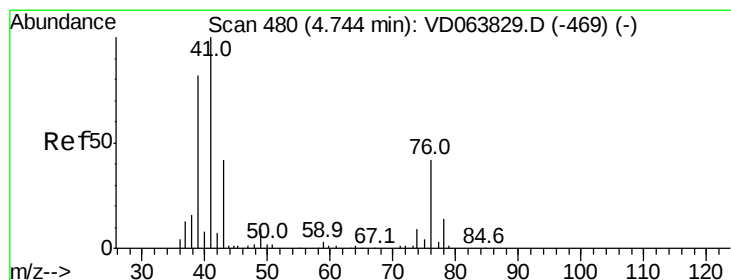
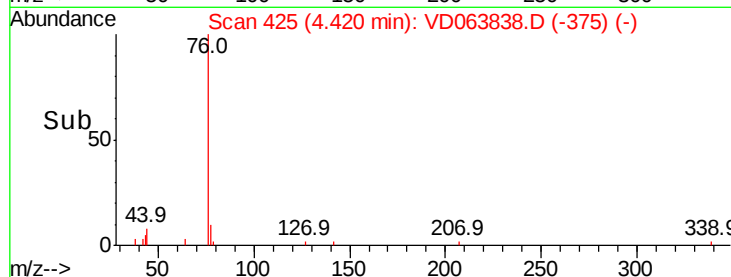
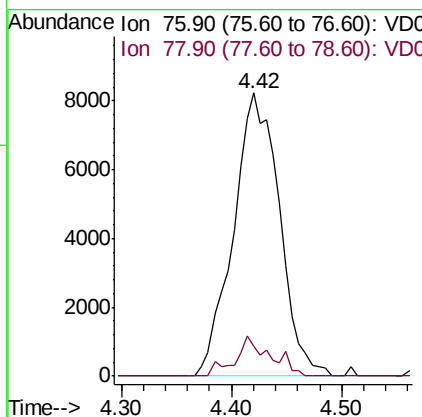
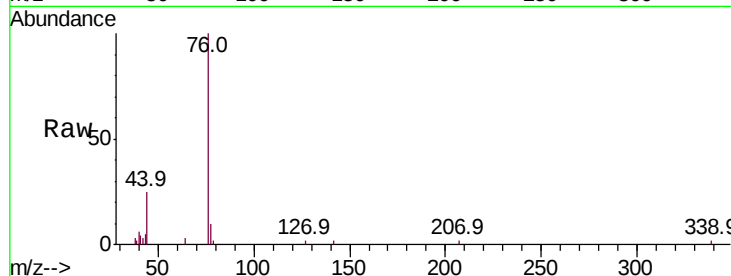




#17
Carbon Disulfide
Concen: 3.917 ug/l
RT: 4.42 min Scan# 425
Delta R.T. -0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

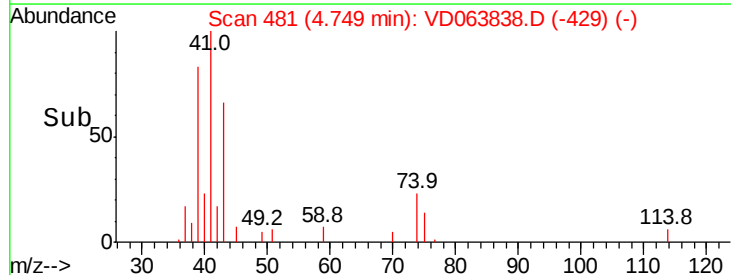
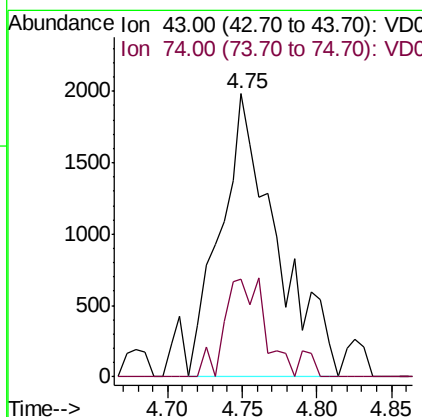
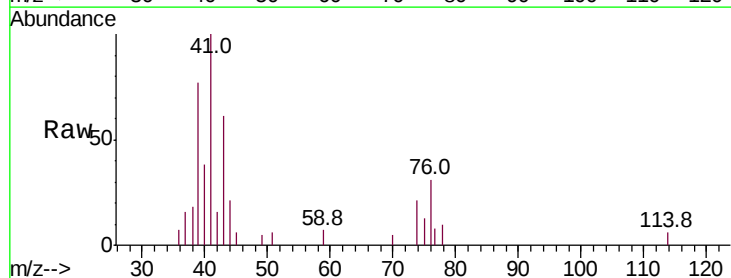
Instrument :
MSVOA_D
ClientSampleId :

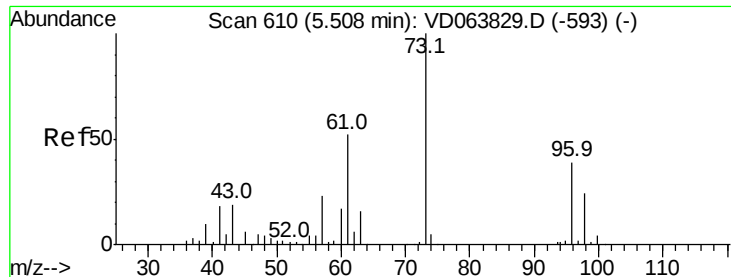
Tot Ion: 76 Resp: 24046
Ion Ratio Lower Upper
76 100
78 10.4 7.9 11.9



#18
Methyl Acetate
Concen: 2.360 ug/l
RT: 4.75 min Scan# 481
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 43 Resp: 5183
Ion Ratio Lower Upper
43 100
74 25.0 18.6 28.0

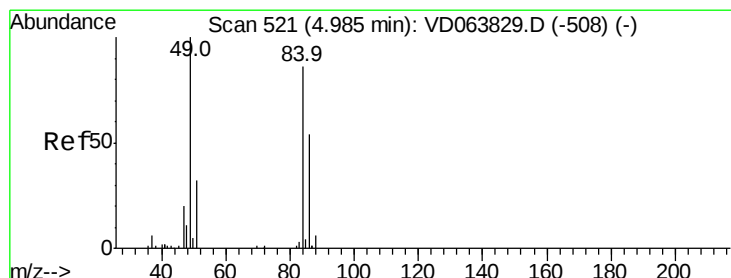
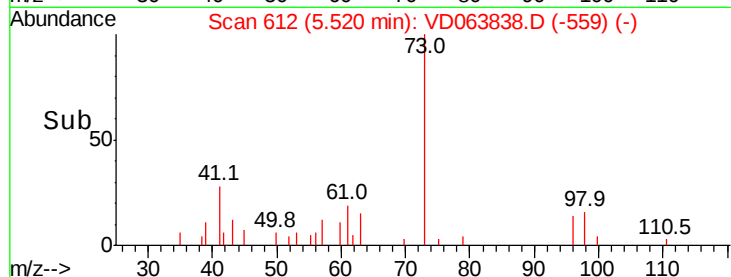
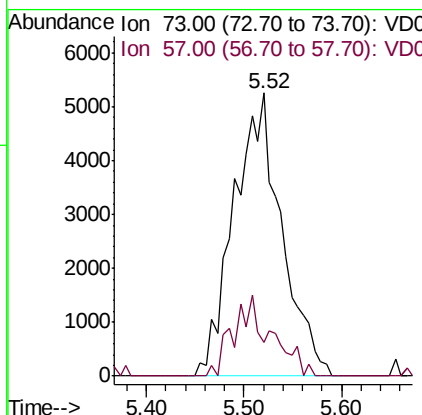
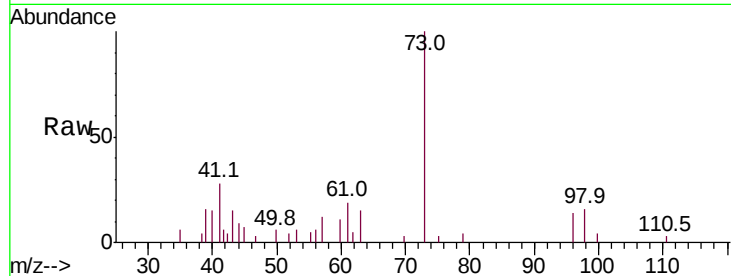




#19
Methvl tert-butvl Ether
Concen: 3.933 ug/l
RT: 5.52 min Scan# 612
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

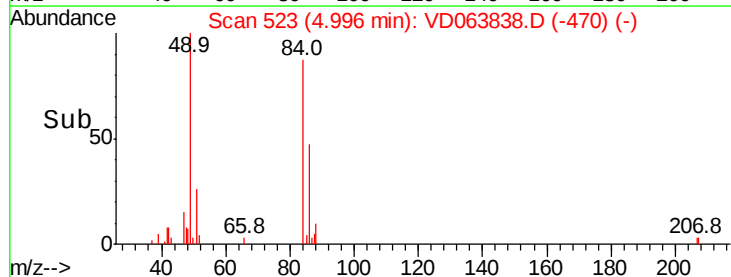
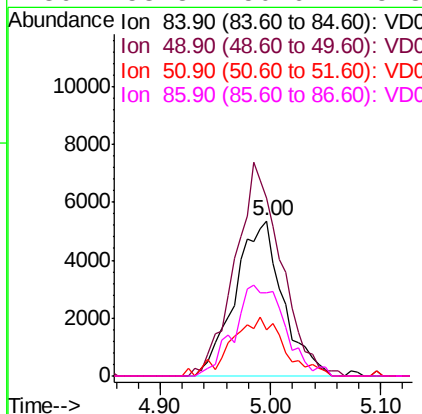
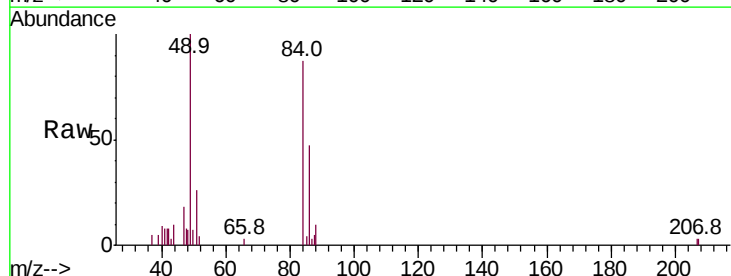
Instrument :
MSVOA_D
ClientSampleId :

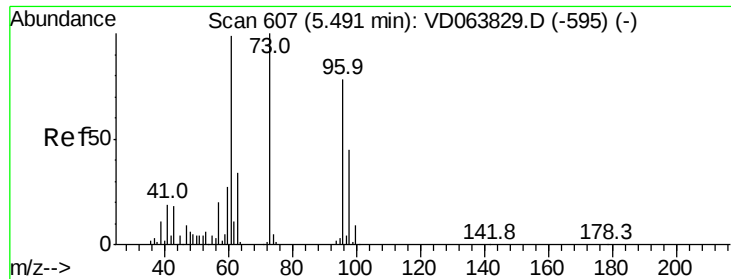
Tot Ion: 73 Resp: 17884
Ion Ratio Lower Upper
73 100
57 11.9 18.7 28.1#



#20
Methylene Chloride
Concen: 2.593 ug/l
RT: 5.00 min Scan# 523
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 84 Resp: 16196
Ion Ratio Lower Upper
84 100
49 114.6 93.6 140.4
51 30.0 29.8 44.6
86 53.8 50.6 75.8





#21

trans-1,2-Dichloroethene

Concen: 3.869 ug/l

RT: 5.50 min Scan# 609

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

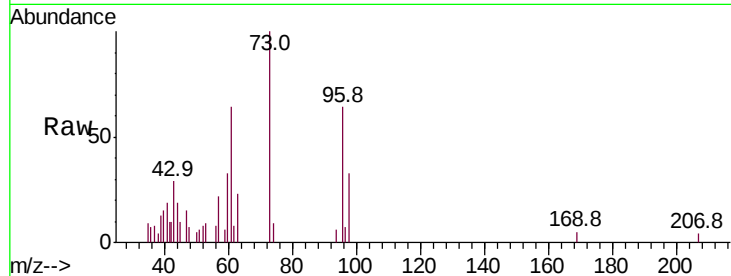
Tot Ion: 96 Resp: 8179

Ion Ratio Lower Upper

96 100

61 100.9 101.3 151.9#

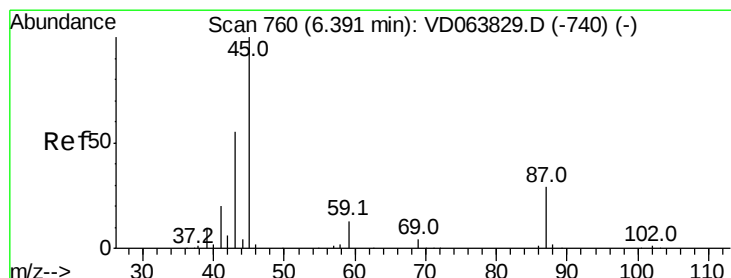
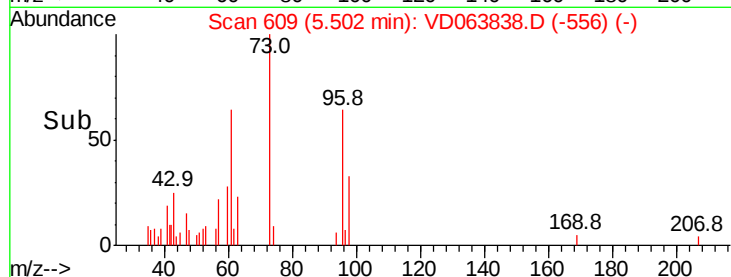
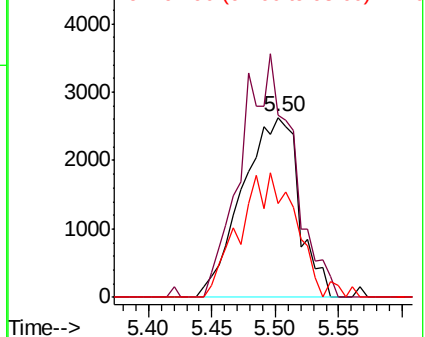
98 52.3 45.4 68.2



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: 3.995 ug/l

RT: 6.39 min Scan# 760

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Tgt Ion: 45 Resp: 23686

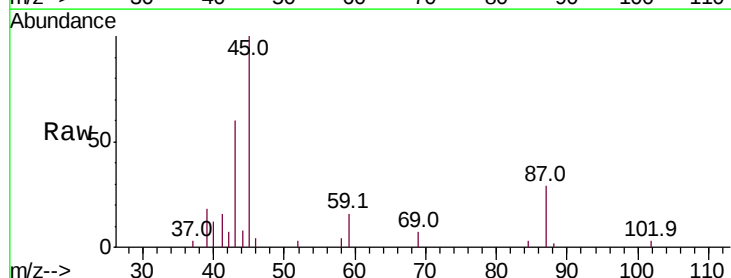
Ion Ratio Lower Upper

45 100

43 57.4 44.2 66.2

87 28.9 23.9 35.9

59 15.9 10.0 15.0#

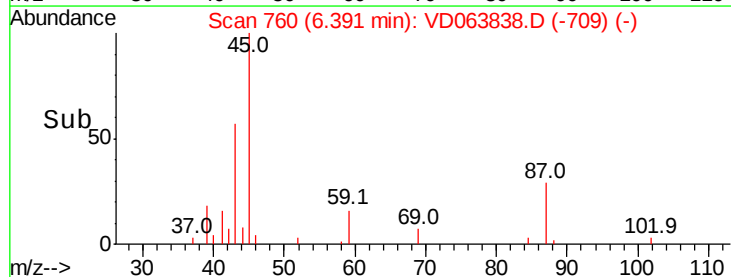
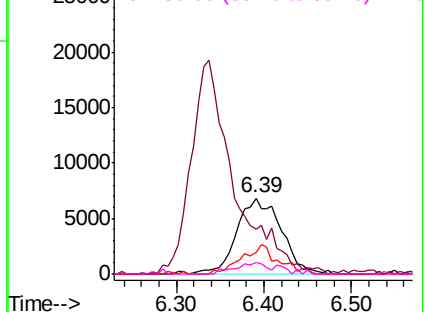


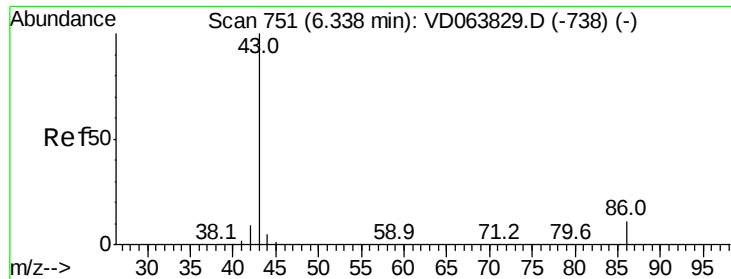
Abundance Ion 45.00 (44.70 to 45.70): VDC

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: 18.812 ug/l

RT: 6.34 min Scan# 751

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

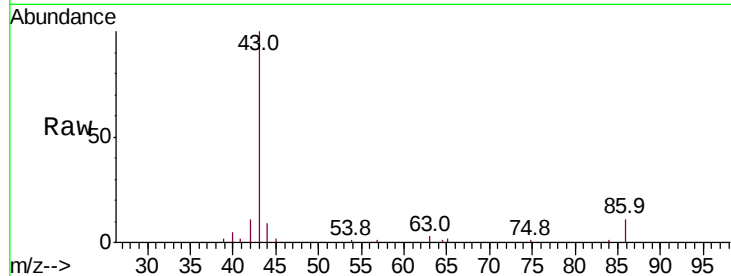
ClientSampleId :

Tot Ion: 43 Resp: 65976

Ion Ratio Lower Upper

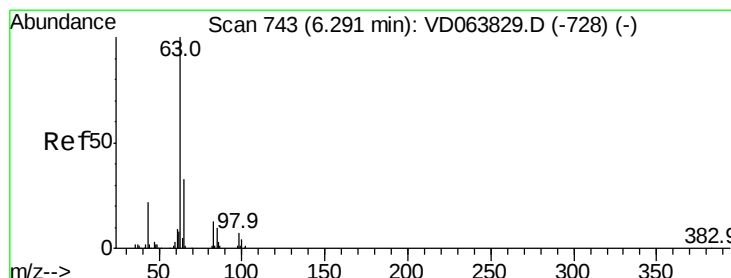
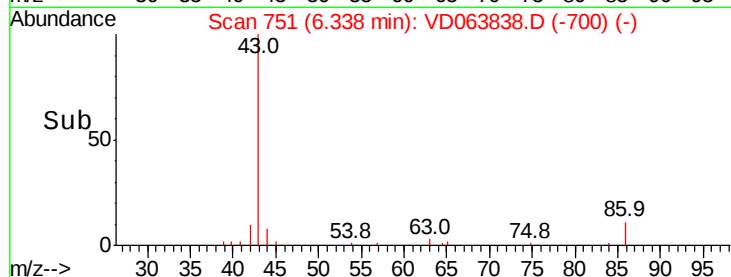
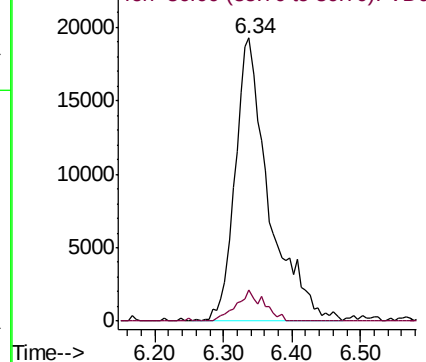
43 100

86 11.2 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: 4.072 ug/l

RT: 6.30 min Scan# 744

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

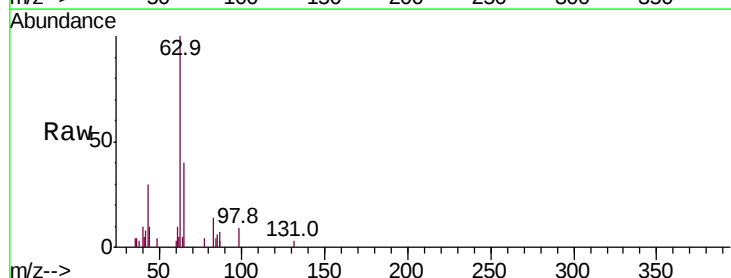
Tgt Ion: 63 Resp: 14668

Ion Ratio Lower Upper

63 100

98 9.3 3.5 10.5

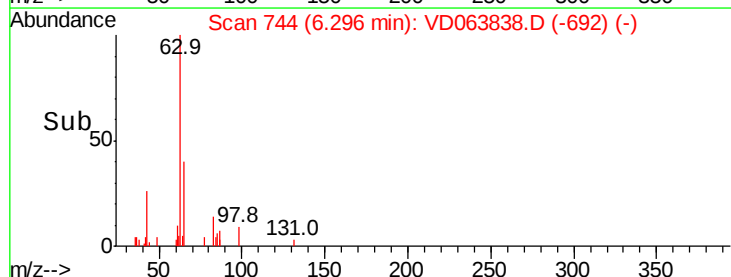
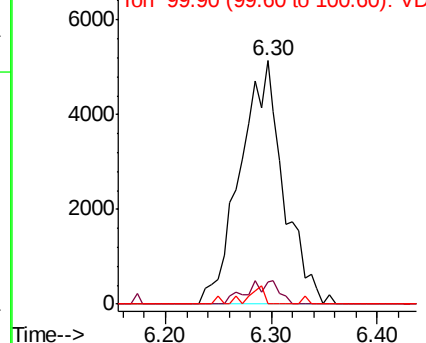
100 0.0 2.0 6.0#

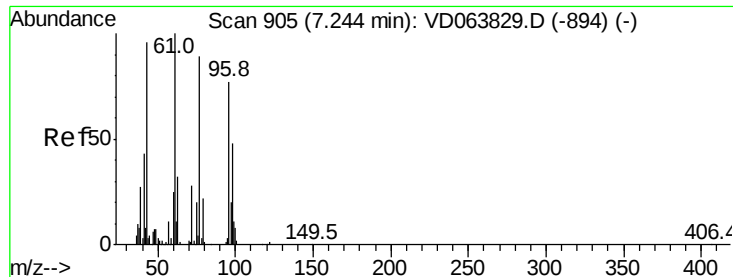


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 21.262 ug/l

RT: 7.26 min Scan# 908

Delta R.T. 0.02 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

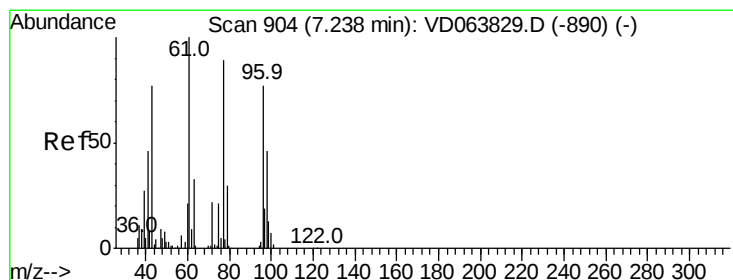
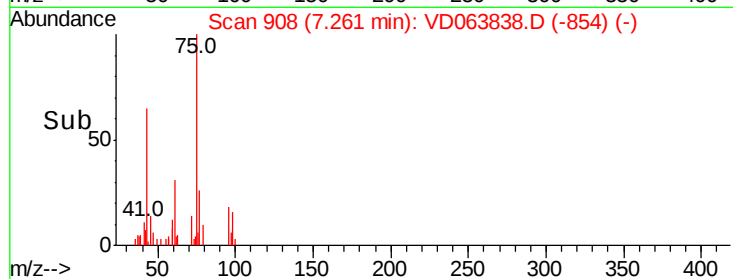
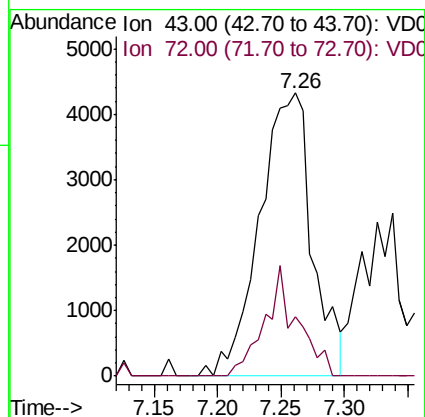
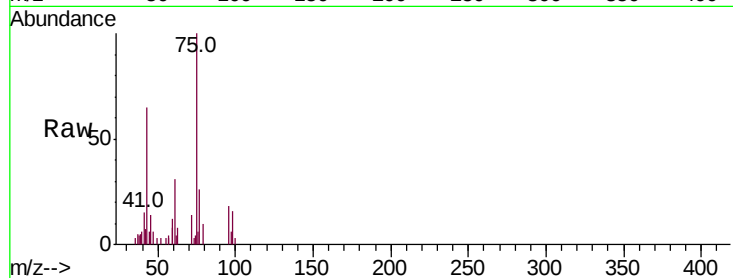
ClientSampleId :

Tot Ion: 43 Resp: 12496

Ion Ratio Lower Upper

43 100

72 21.2 23.5 35.3#



#26

2,2-Dichloropropane

Concen: 3.934 ug/l

RT: 7.24 min Scan# 905

Delta R.T. 0.01 min

Lab File: VD063838.D

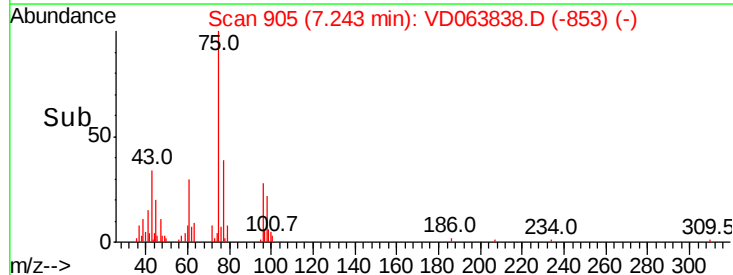
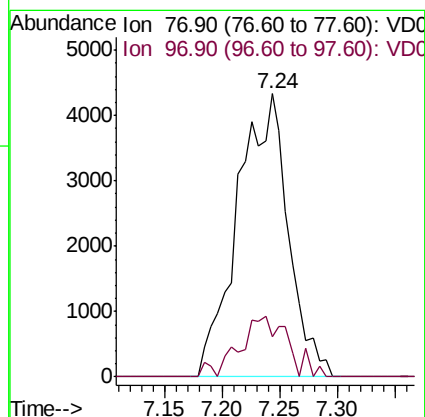
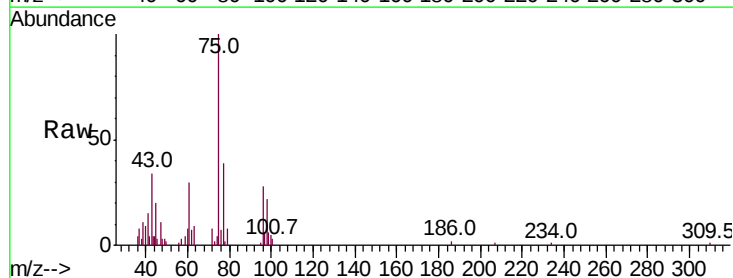
Acq: 26 Sep 2019 15:02

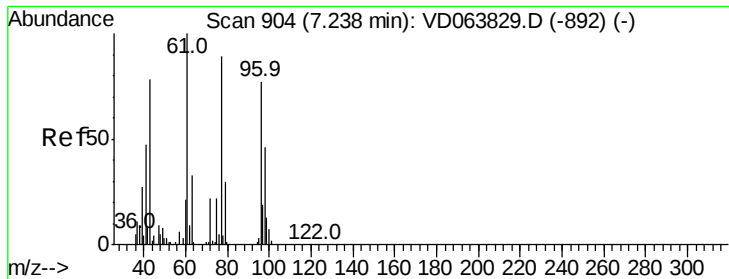
Tgt Ion: 77 Resp: 13254

Ion Ratio Lower Upper

77 100

97 19.1 10.9 32.7



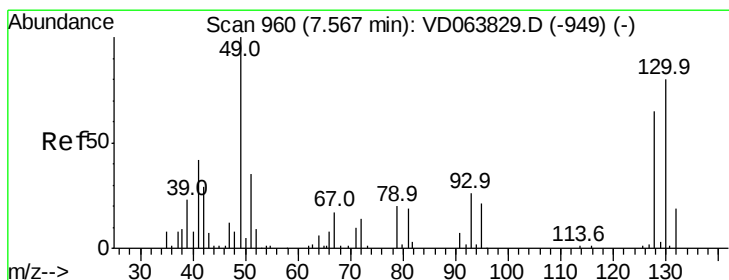
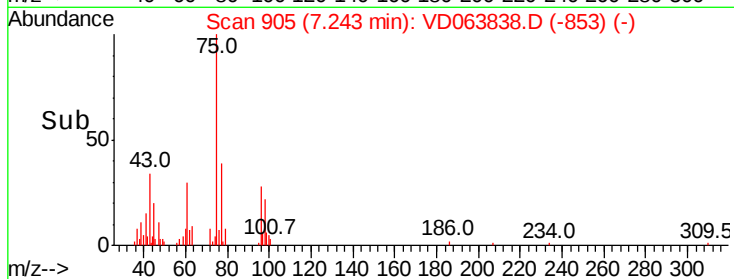
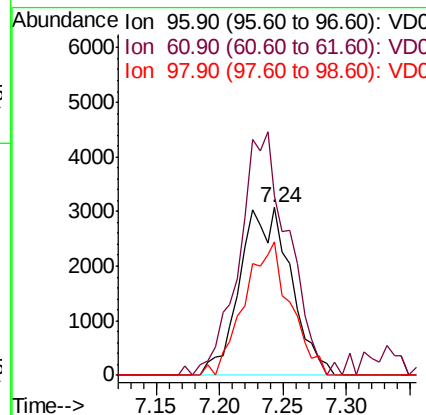
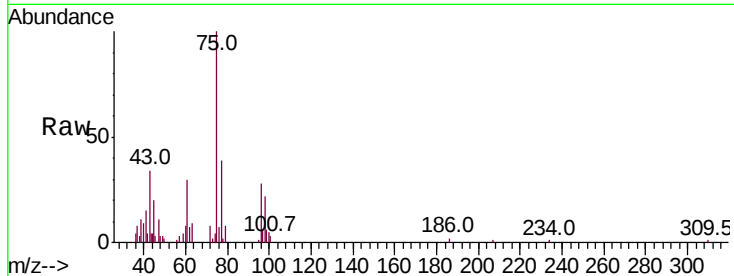


#27

cis-1,2-Dichloroethene
Concen: 3.588 ug/l
RT: 7.24 min Scan# 905
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Instrument :
MSVOA_D
ClientSampled :

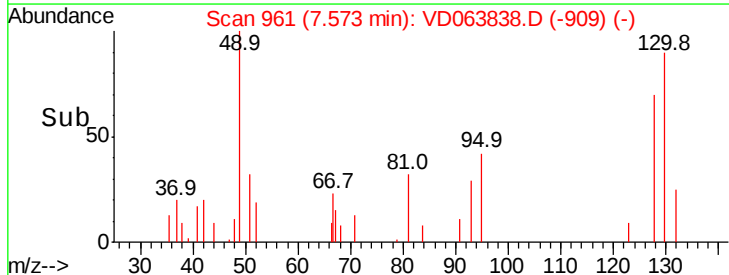
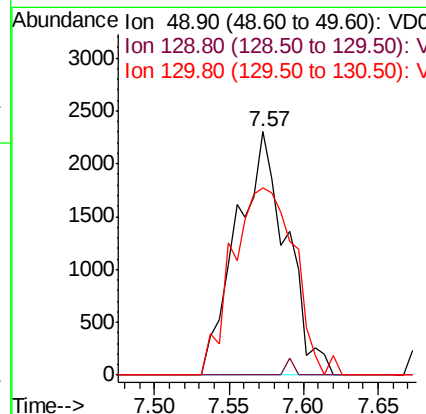
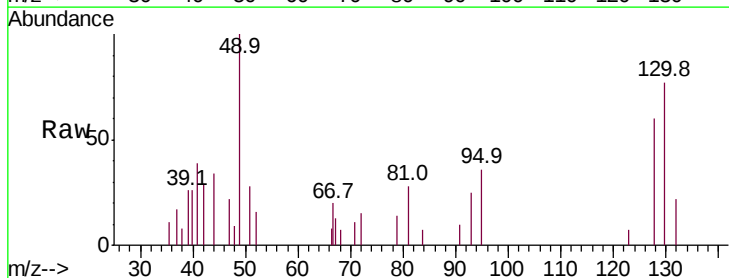
Tot Ion	Ratio	Lower	Upper
96	100		
61	140.4	0.0	275.6
98	72.3	0.0	130.2

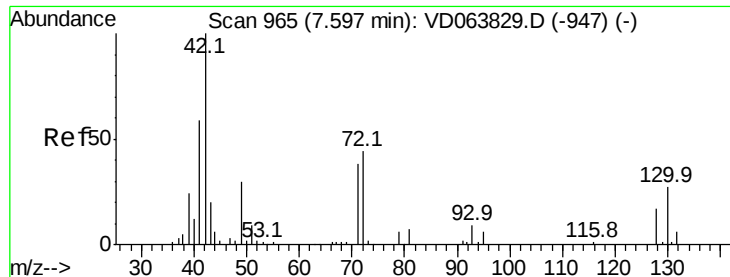


#28

Bromochloromethane
Concen: 3.774 ug/l
RT: 7.57 min Scan# 961
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.0	0.0	2.6
130	96.1	67.0	100.4





#29

Tetrahydrofuran

Concen: 19.097 ug/l

RT: 7.59 min Scan# 964

Delta R.T. -0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

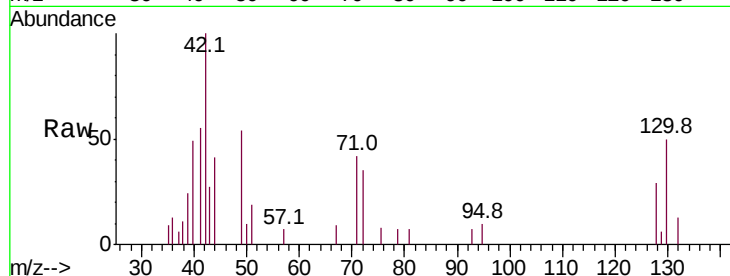
Tot Ion: 42 Resp: 6725

Ion Ratio Lower Upper

42 100

72 47.3 37.3 55.9

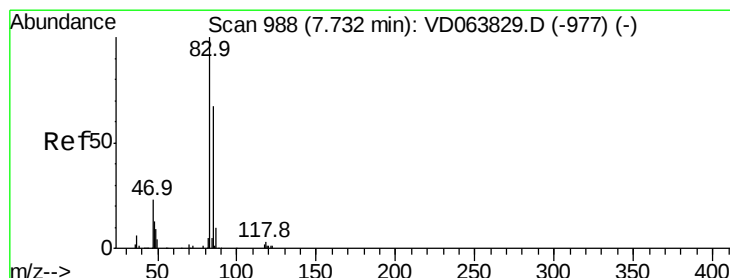
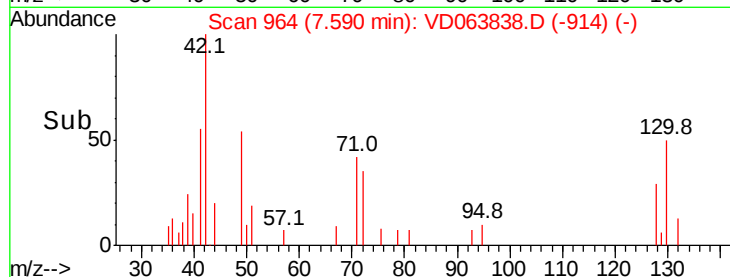
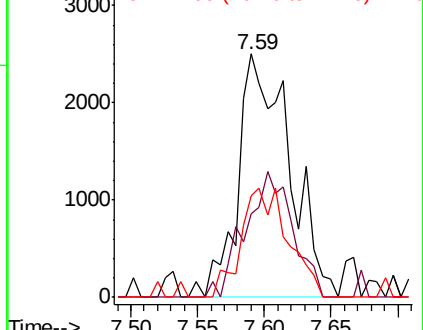
71 41.1 33.4 50.2



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: 4.035 ug/l

RT: 7.74 min Scan# 990

Delta R.T. 0.01 min

Lab File: VD063838.D

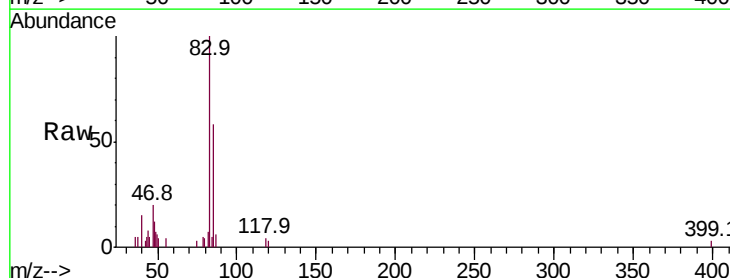
Acq: 26 Sep 2019 15:02

Tgt Ion: 83 Resp: 15789

Ion Ratio Lower Upper

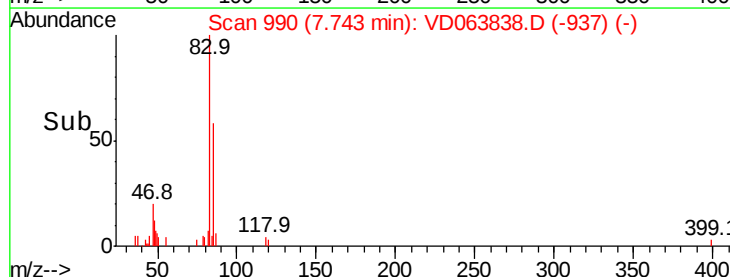
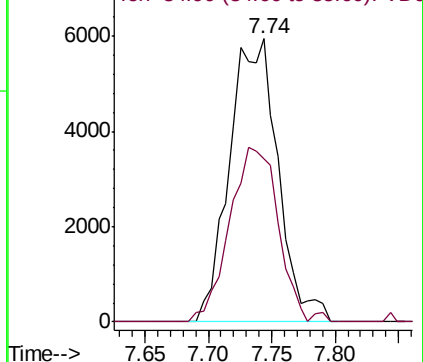
83 100

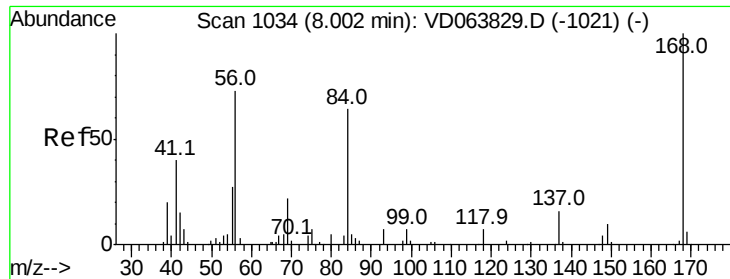
85 57.7 53.4 80.2



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

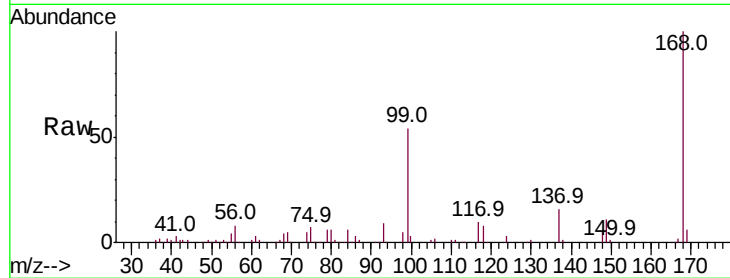




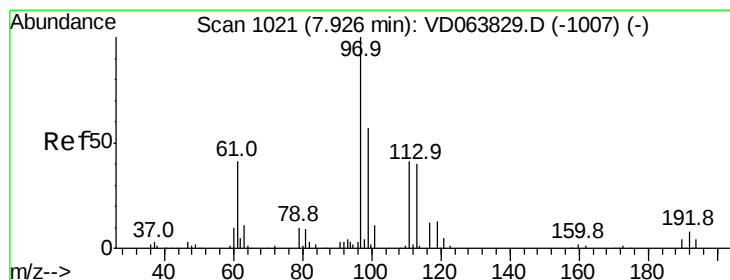
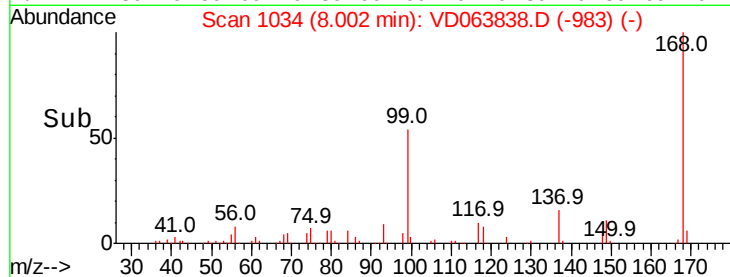
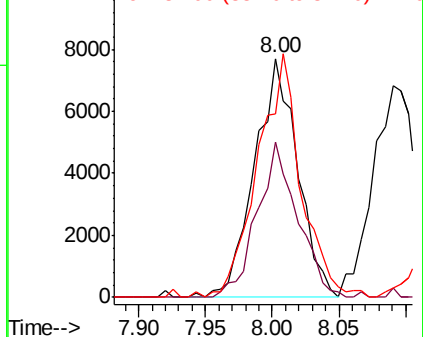
#31
Cyclohexane
Concen: 1.234 ug/l
RT: 8.00 min Scan# 1034
Delta R.T. 0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 56 Resp: 17231
Ion Ratio Lower Upper
56 100
69 65.0 23.1 34.7#
84 76.9 69.7 104.5

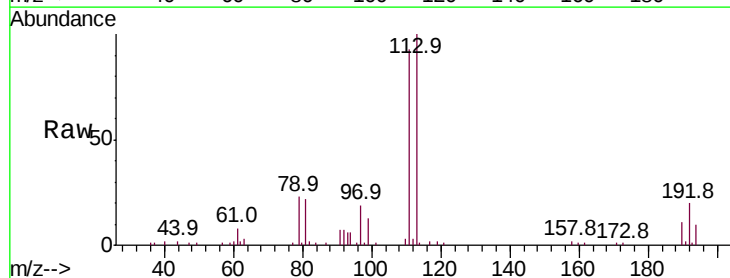


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

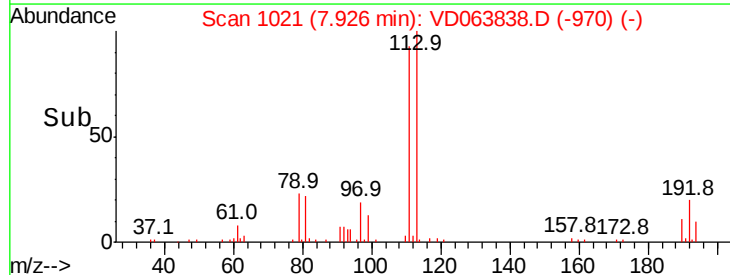
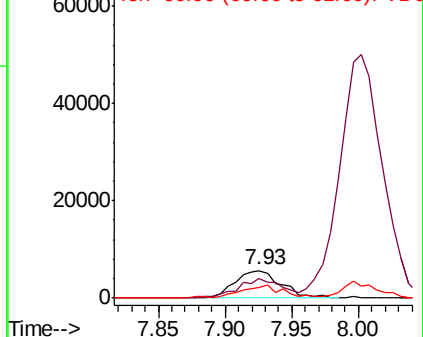


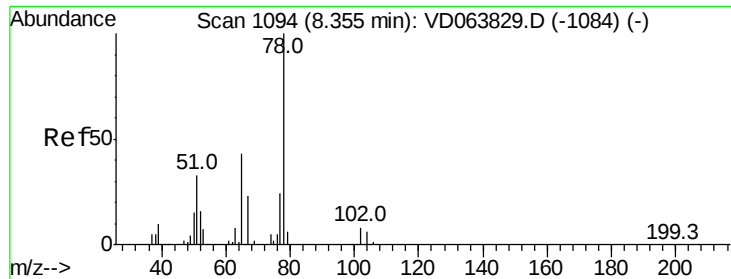
#32
1,1,1-Trichloroethane
Concen: 3.835 ug/l
RT: 7.93 min Scan# 1021
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 97 Resp: 13569
Ion Ratio Lower Upper
97 100
99 67.0 52.9 79.3
61 41.0 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: 55.305 ug/l

RT: 8.36 min Scan# 1094

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

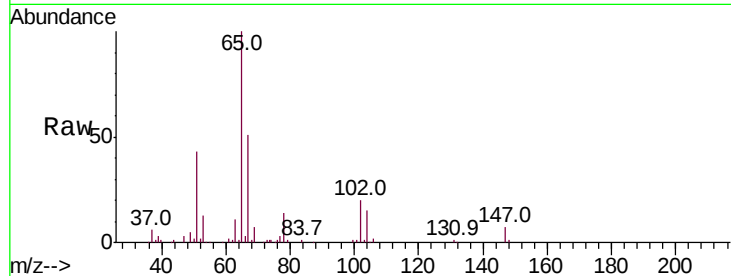
ClientSampleId :

Tot Ion: 65 Resp: 110761

Ion Ratio Lower Upper

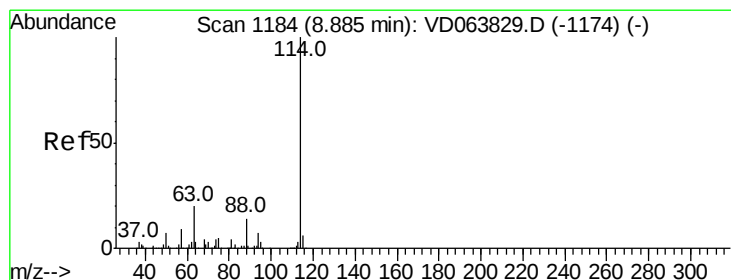
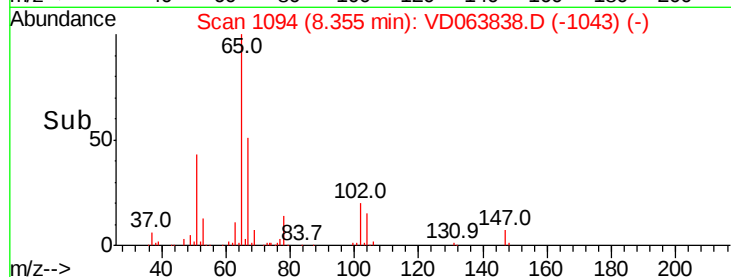
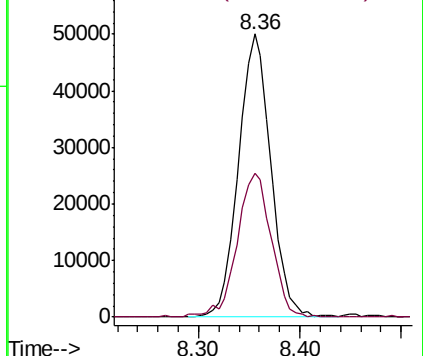
65 100

67 53.7 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: VD063838.D

Acq: 26 Sep 2019 15:02

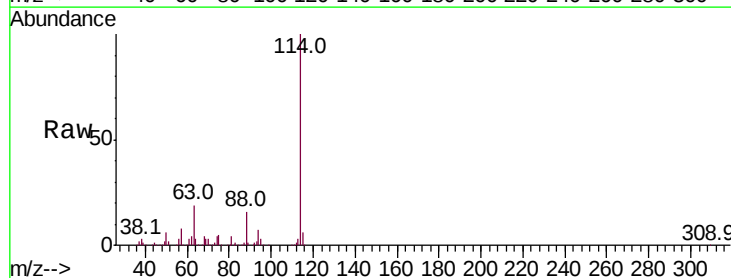
Tgt Ion: 114 Resp: 348239

Ion Ratio Lower Upper

114 100

63 18.6 0.0 39.2

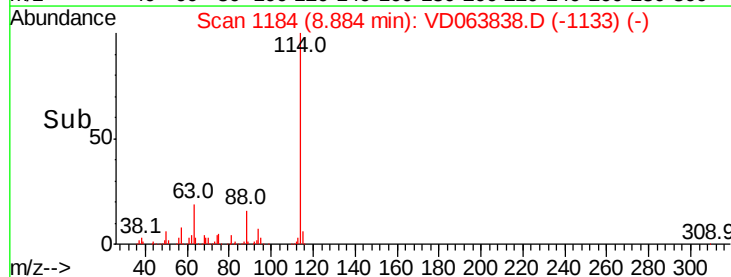
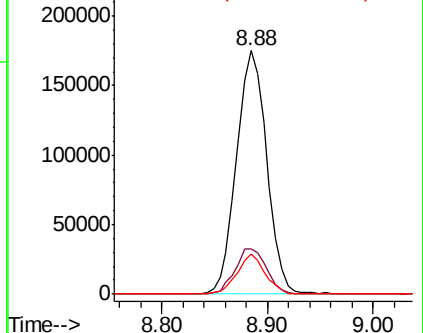
88 16.4 0.0 28.4

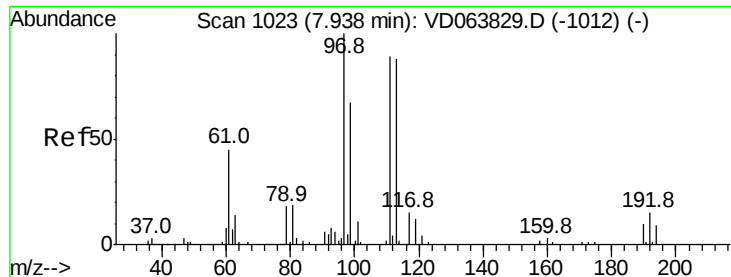


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 48.105 ug/l

RT: 7.94 min Scan# 1023

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :
MSVOA_D
ClientSampled :

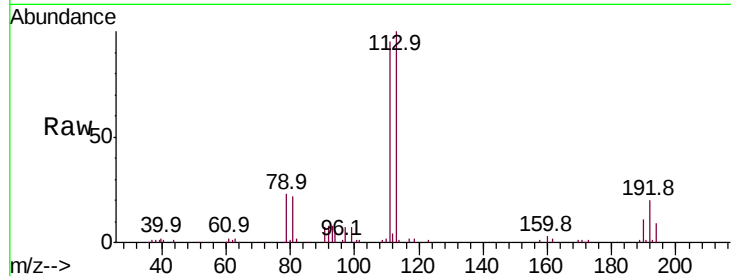
Tot Ion:113 Resp: 106342

Ion Ratio Lower Upper

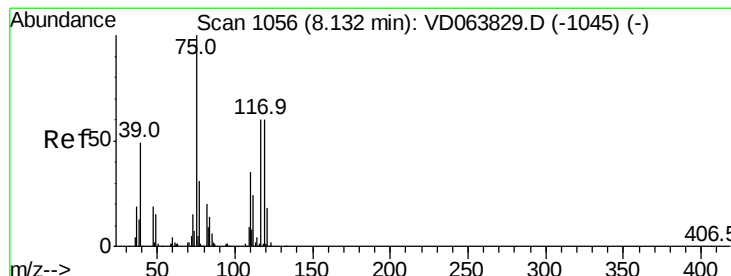
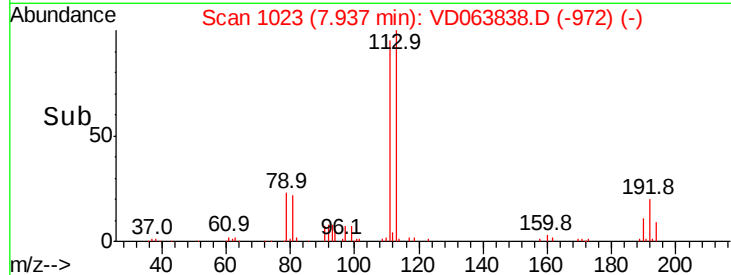
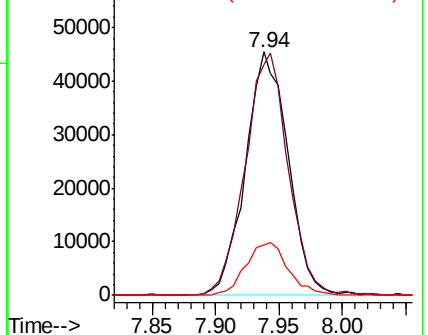
113 100

111 101.0 77.7 116.5

192 21.5 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: 3.759 ug/l

RT: 8.13 min Scan# 1056

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

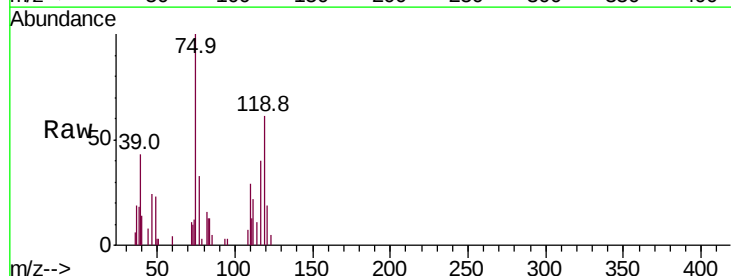
Tgt Ion: 75 Resp: 11940

Ion Ratio Lower Upper

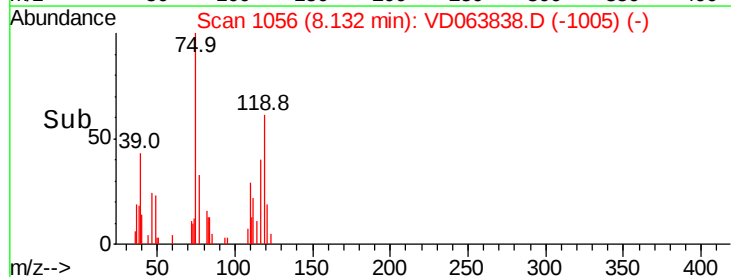
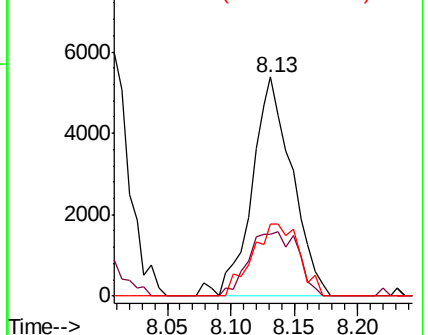
75 100

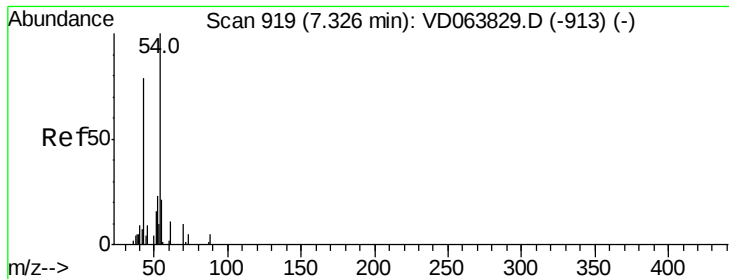
110 35.9 17.5 52.5

77 37.9 24.9 37.3#



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

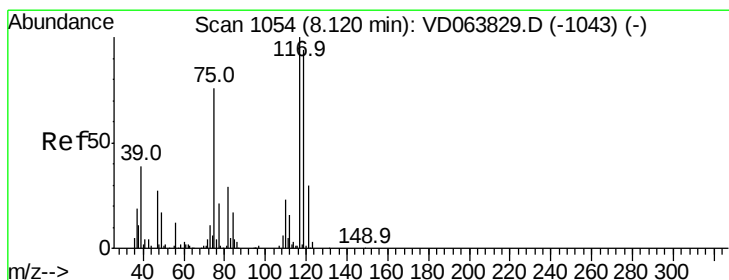
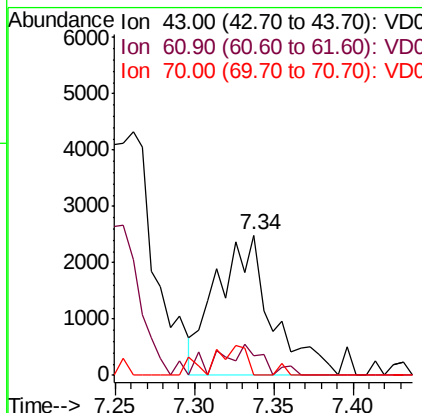
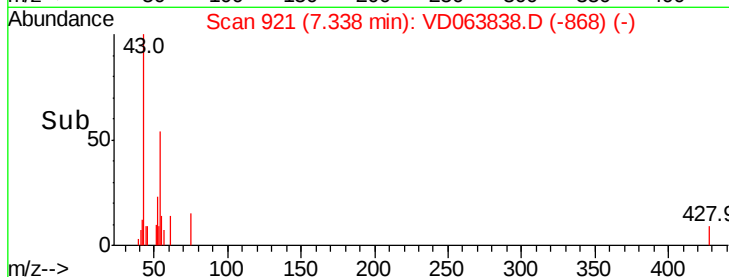
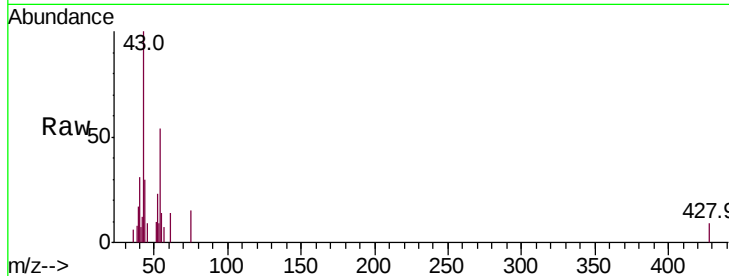




#37
Ethyl Acetate
Concen: 2.447 ug/l
RT: 7.34 min Scan# 921
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

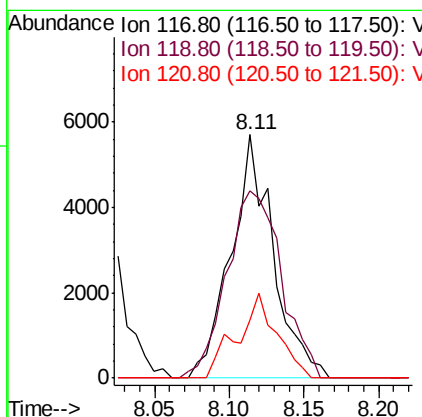
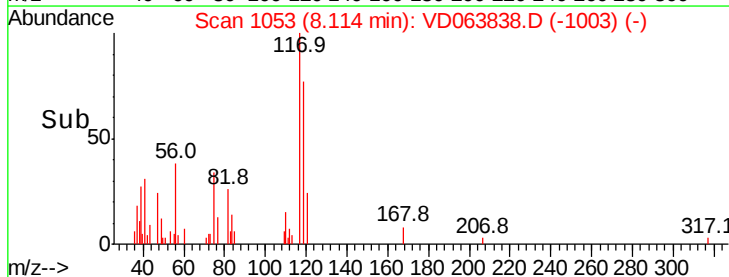
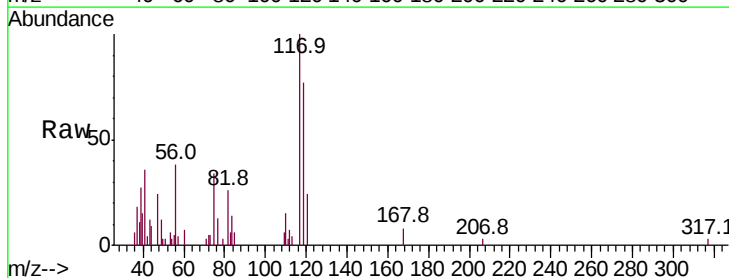
Instrument :
MSVOA_D
ClientSampleId :

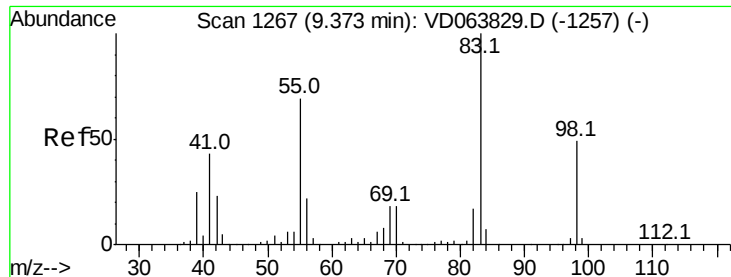
Tot Ion: 43 Resp: 5987
Ion Ratio Lower Upper
43 100
61 19.2 12.7 19.1#
70 10.4 8.3 12.5



#38
Carbon Tetrachloride
Concen: 3.395 ug/l
RT: 8.11 min Scan# 1053
Delta R.T. -0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 117 Resp: 11224
Ion Ratio Lower Upper
117 100
119 76.8 75.2 112.8
121 23.7 23.9 35.9#

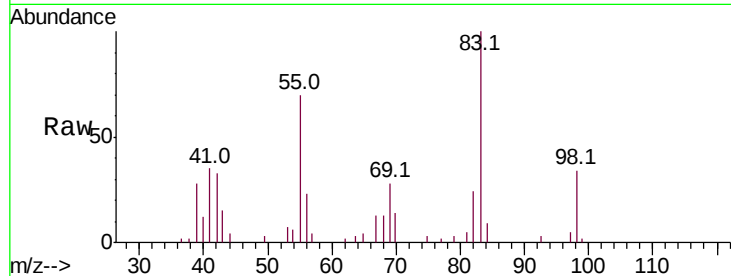




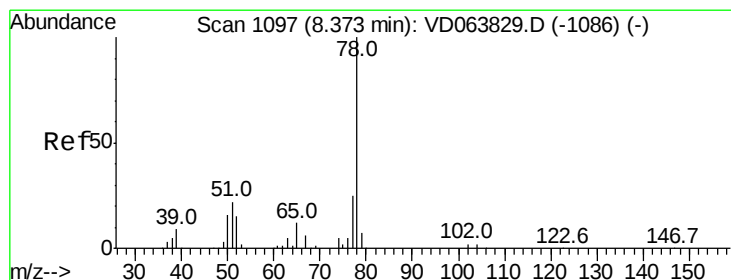
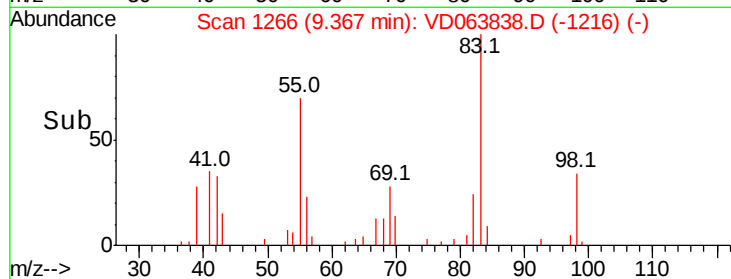
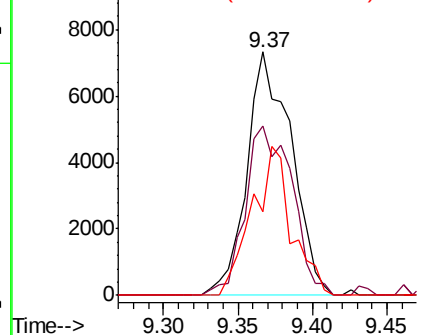
#39
Methvlcvclohexane
Concen: 3.813 ug/l
RT: 9.37 min Scan# 1266
Delta R.T. -0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 83 Resp: 15080
Ion Ratio Lower Upper
83 100
55 69.7 54.9 82.3
98 34.1 39.0 58.6#

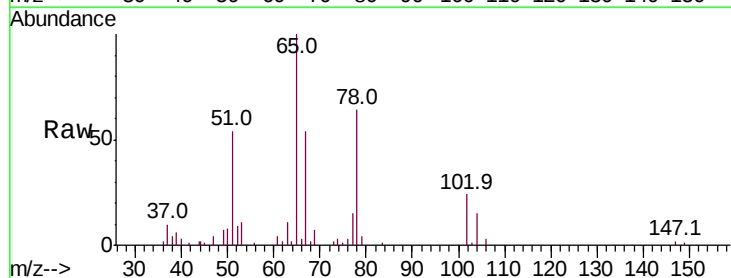


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

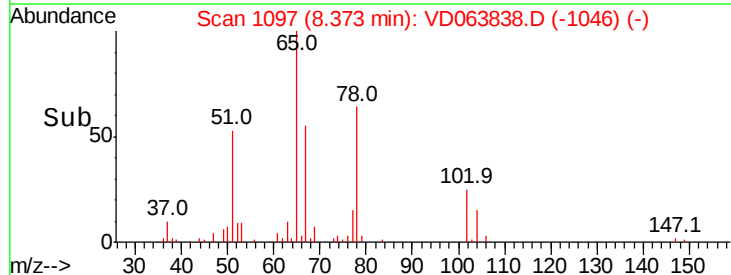
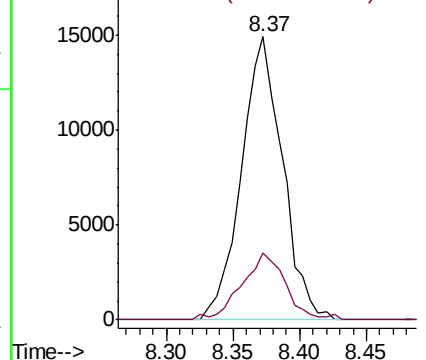


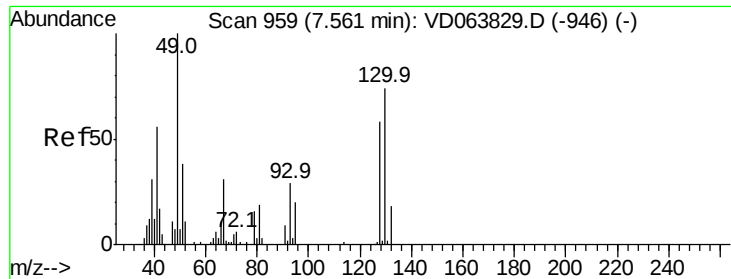
#40
Benzene
Concen: 3.633 ug/l
RT: 8.37 min Scan# 1097
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 78 Resp: 31779
Ion Ratio Lower Upper
78 100
77 23.6 19.8 29.6



Abundance Ion 78.00 (77.70 to 78.70): VDC
Ion 77.00 (76.70 to 77.70): VDC

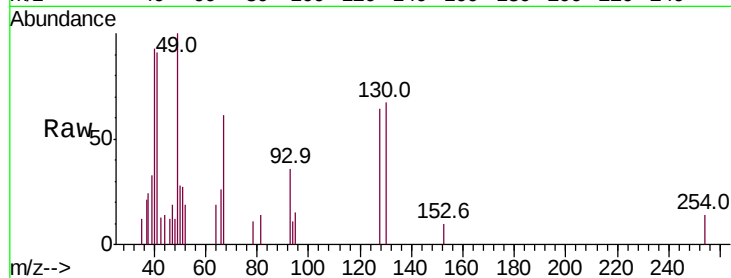




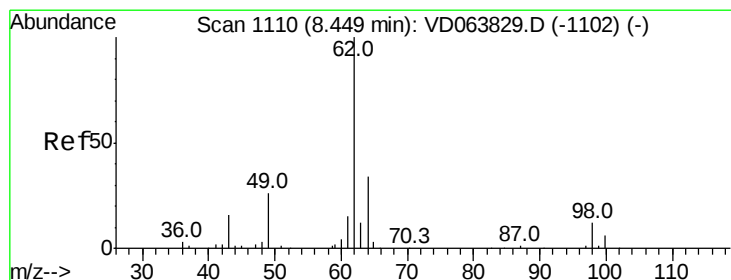
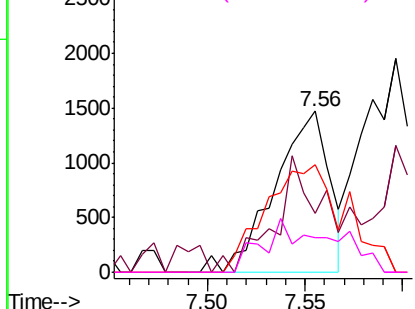
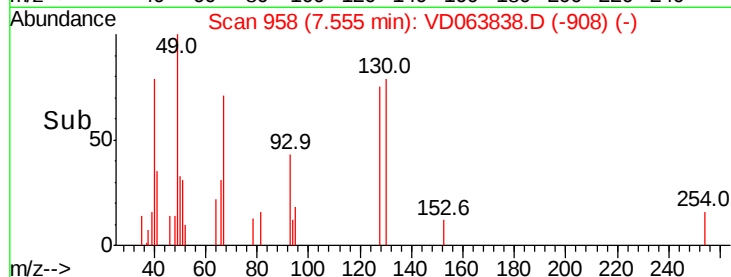
#41
Methacrylonitrile
Concen: 1.733 ug/l
RT: 7.56 min Scan# 958
Delta R.T. -0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 41 Resp: 2858
Ion Ratio Lower Upper
41 100
39 73.7 52.2 78.4
67 96.5 58.6 87.8#
52 25.9 26.6 39.8#

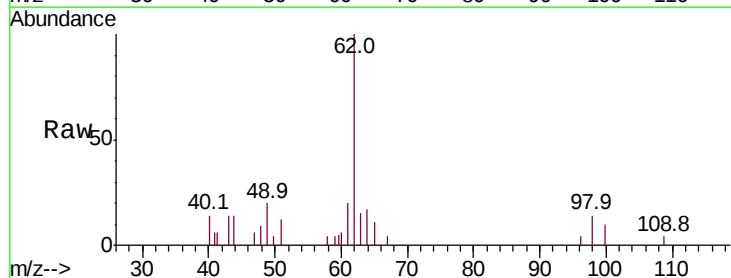


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

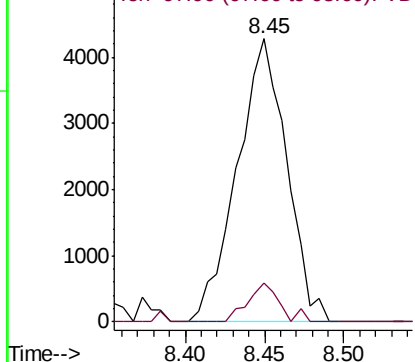
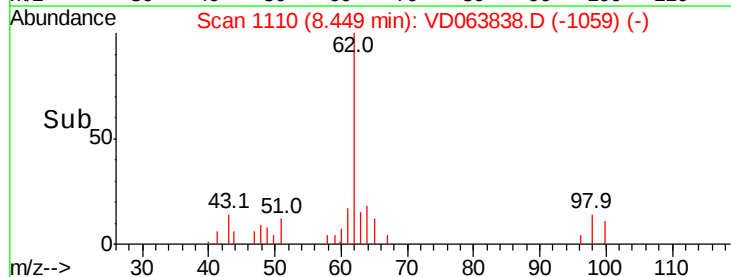


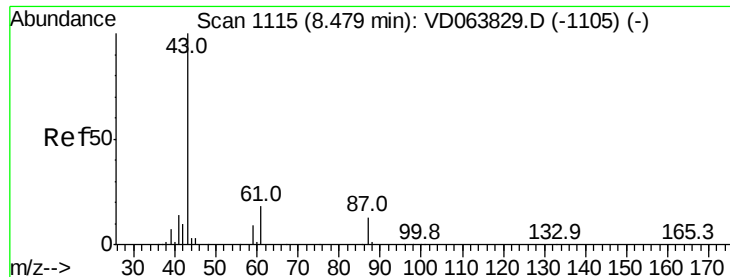
#42
1,2-Dichloroethane
Concen: 3.630 ug/l
RT: 8.45 min Scan# 1110
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 62 Resp: 9285
Ion Ratio Lower Upper
62 100
98 8.7 0.0 19.6



Abundance Ion 61.90 (61.60 to 62.60): VDC
Ion 97.90 (97.60 to 98.60): VDC





#43

Isopropyl Acetate

Concen: 3.819 ug/l

RT: 8.48 min Scan# 1115

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

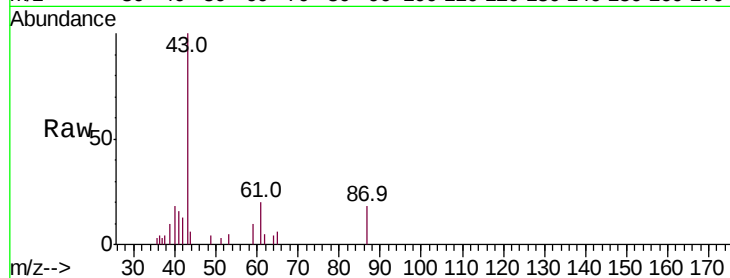
Tot Ion: 43 Resp: 10157

Ion Ratio Lower Upper

43 100

61 15.8 24.6 37.0#

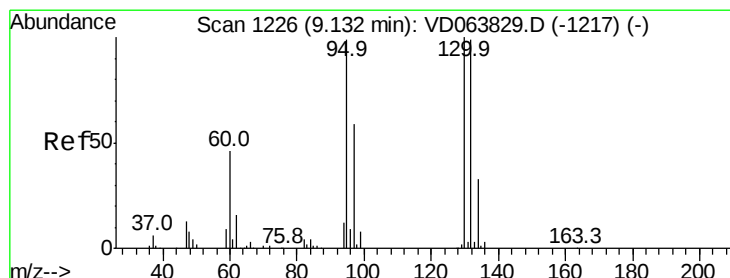
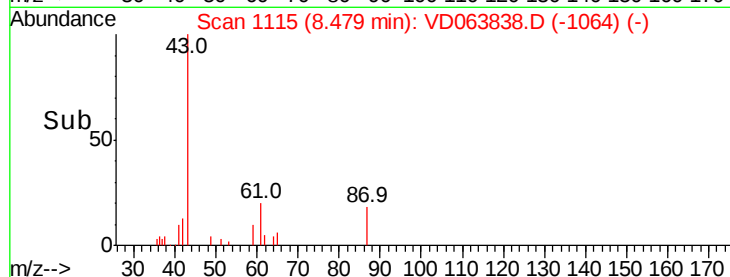
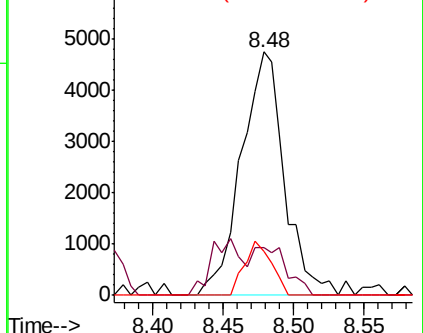
87 13.9 10.5 15.7



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: 3.593 ug/l

RT: 9.13 min Scan# 1226

Delta R.T. -0.00 min

Lab File: VD063838.D

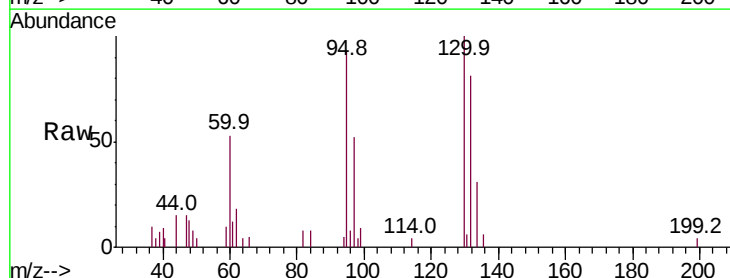
Acq: 26 Sep 2019 15:02

Tgt Ion:130 Resp: 9103

Ion Ratio Lower Upper

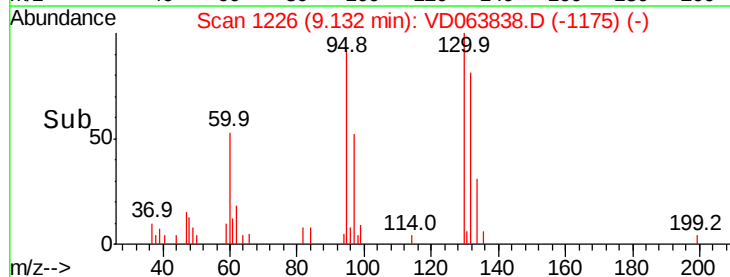
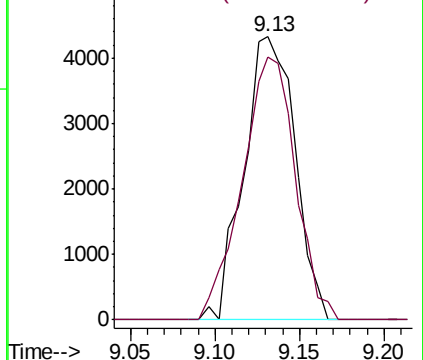
130 100

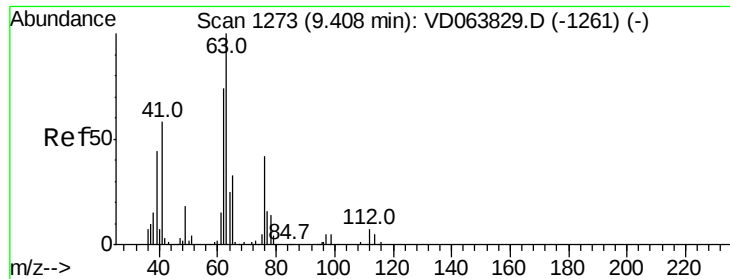
95 93.0 0.0 198.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 3.898 ug/l

RT: 9.40 min Scan# 1272

Delta R.T. -0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

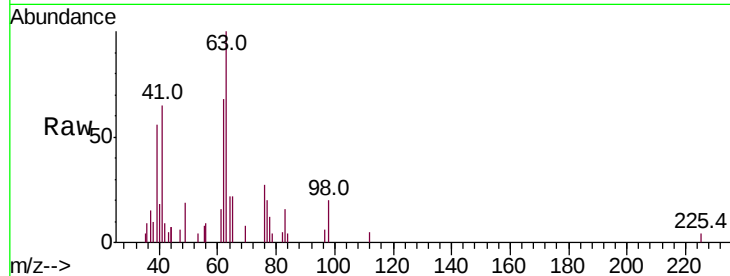
ClientSampleId :

Tot Ion: 63 Resp: 8424

Ion Ratio Lower Upper

63 100

65 22.4 26.8 40.2#



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC

9.40

4000

3000

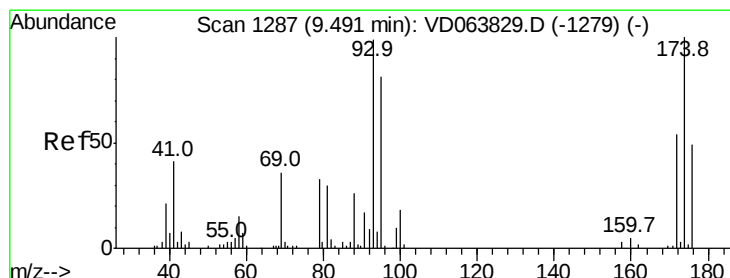
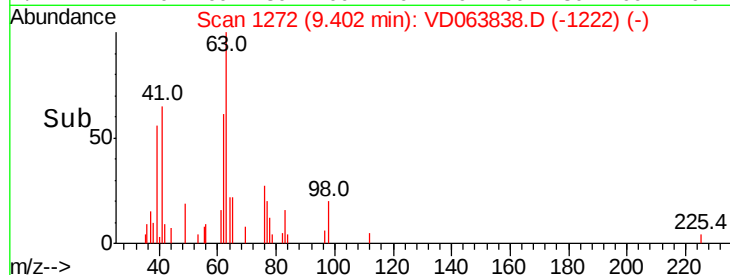
2000

1000

0

9.35 9.40 9.45

Time-->



#46

Dibromomethane

Concen: 3.679 ug/l

RT: 9.50 min Scan# 1288

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

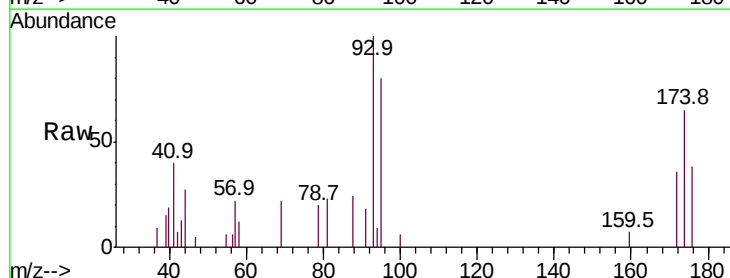
Tgt Ion: 93 Resp: 4487

Ion Ratio Lower Upper

93 100

95 83.9 63.8 95.8

174 86.3 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): VDC

9.50

4000

3000

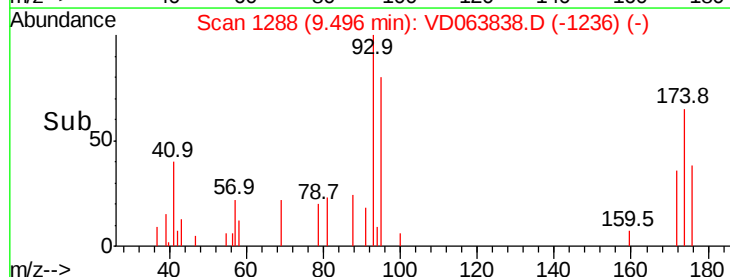
2000

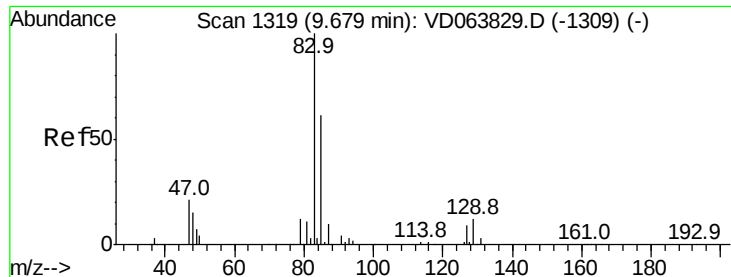
1000

0

9.45 9.50 9.55

Time-->





#47

Bromodichloromethane

Concen: 3.636 ug/l

RT: 9.68 min Scan# 1319

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

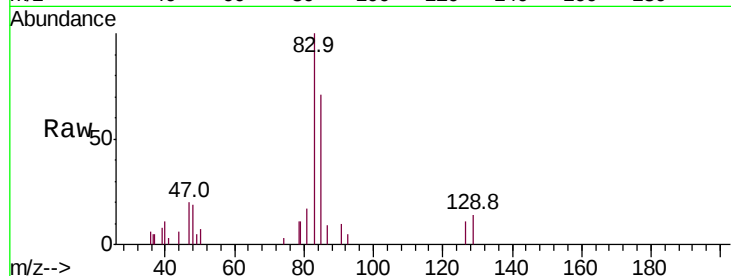
Tot Ion: 83 Resp: 11433

Ion Ratio Lower Upper

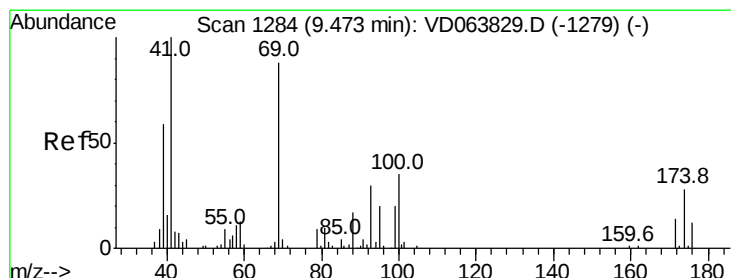
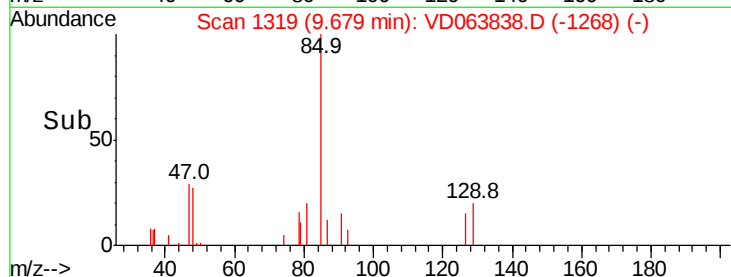
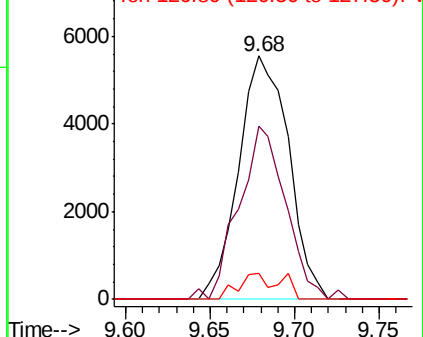
83 100

85 70.9 48.6 73.0

127 10.9 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: 4.186 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

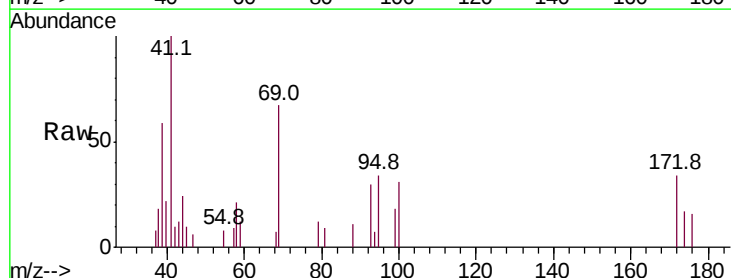
Tgt Ion: 41 Resp: 5064

Ion Ratio Lower Upper

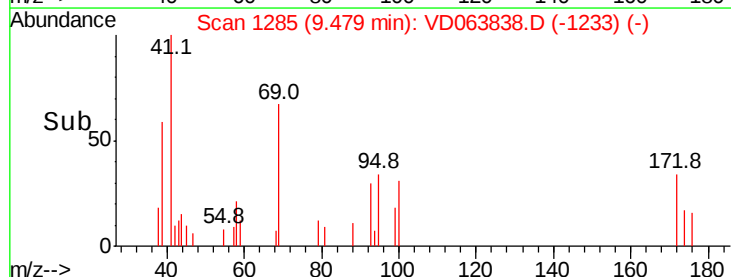
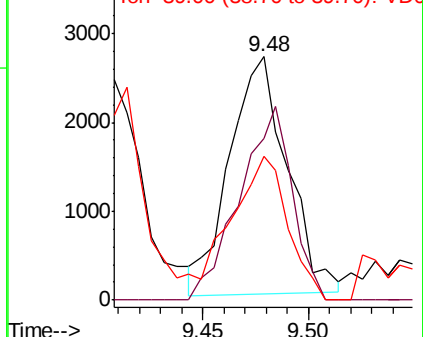
41 100

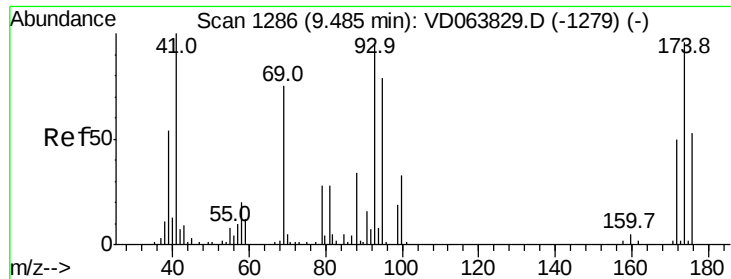
69 74.4 71.7 107.5

39 58.6 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: 65.413 ug/l

RT: 9.50 min Scan# 1288

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :
MSVOA_D
ClientSampleId :

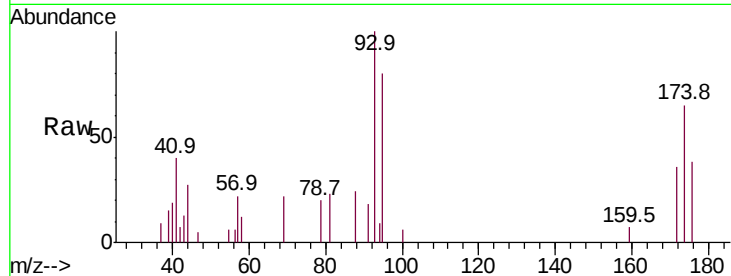
Tot Ion: 88 Resp: 1113

Ion Ratio Lower Upper

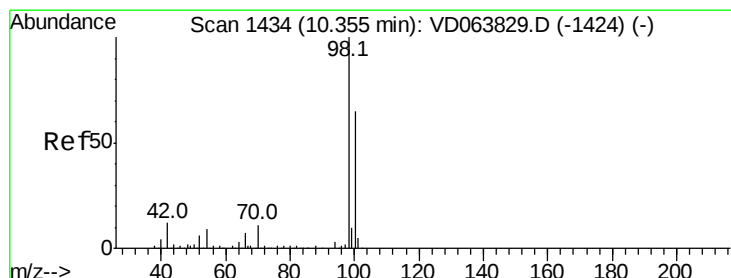
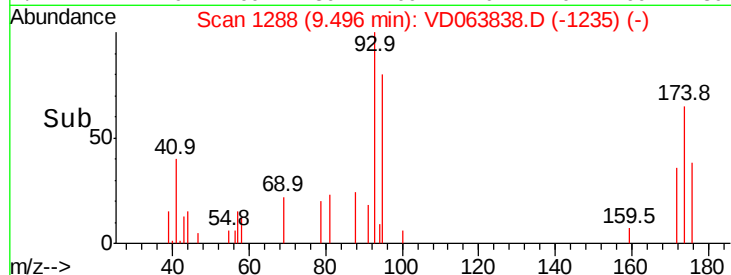
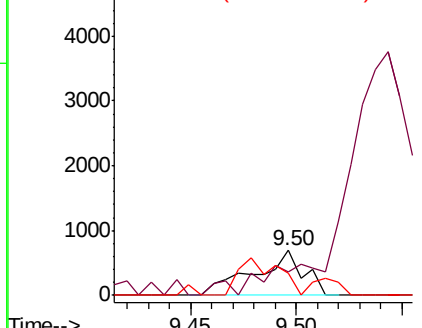
88 100

43 0.0 25.8 38.6#

58 21.6 55.9 83.9#



Abundance Ion 88.00 (87.70 to 88.70): VDC
Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC



#50

Toluene-d8

Concen: 51.997 ug/l

RT: 10.36 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VD063838.D

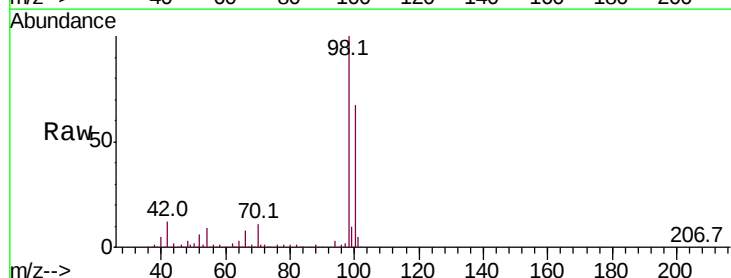
Acq: 26 Sep 2019 15:02

Tgt Ion: 98 Resp: 432693

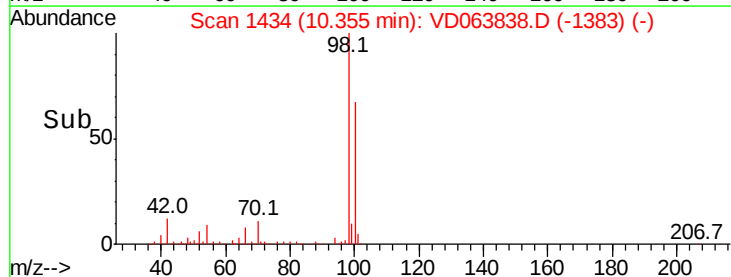
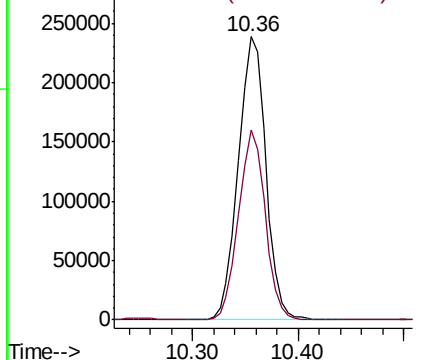
Ion Ratio Lower Upper

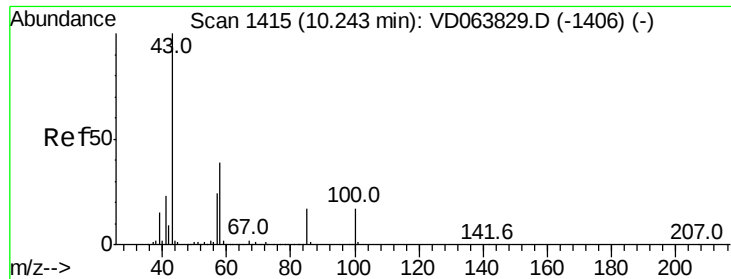
98 100

100 64.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC

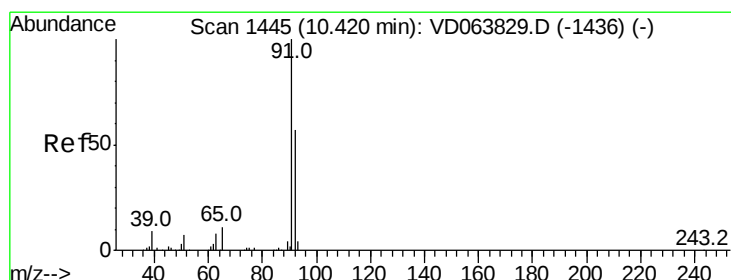
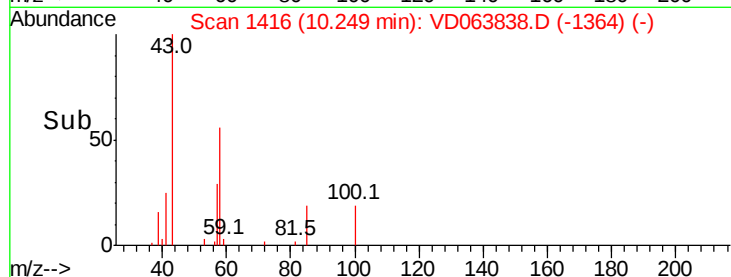
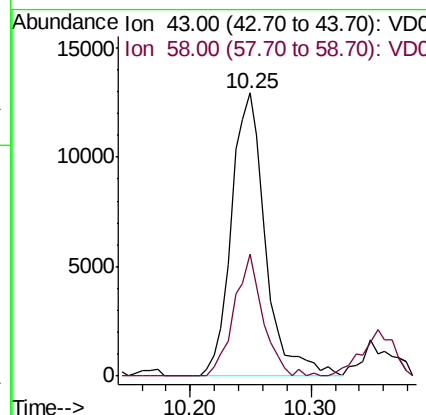
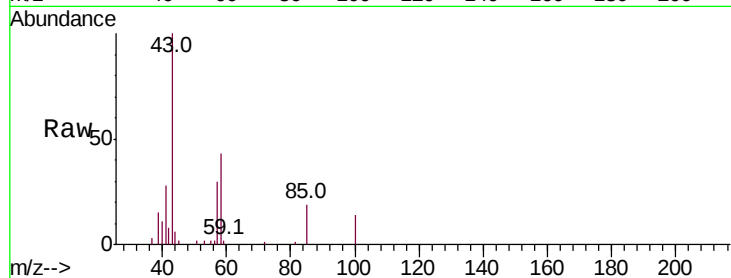




#51
4-Methyl-2-Pentanone
Concen: 18.860 ug/l
RT: 10.25 min Scan# 1416
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

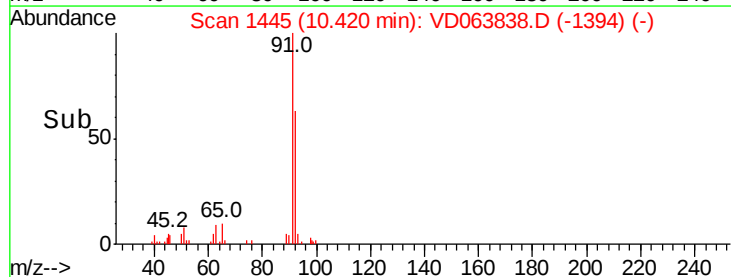
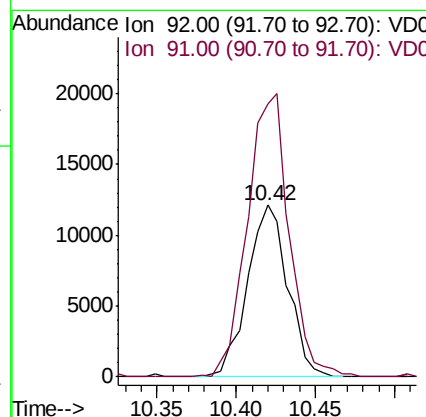
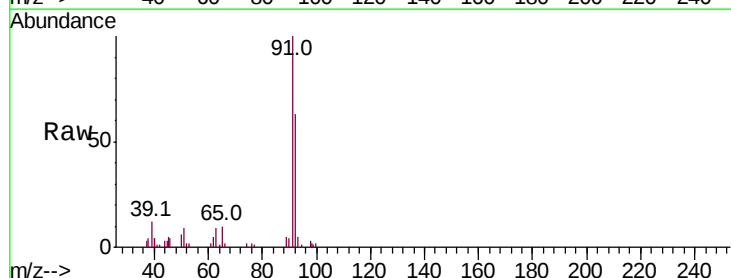
Instrument :
MSVOA_D
ClientSampled :

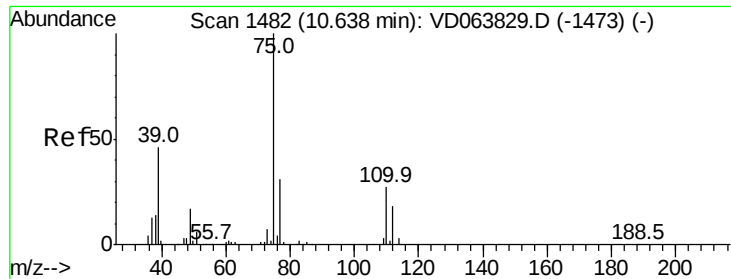
Tot Ion: 43 Resp: 25269
Ion Ratio Lower Upper
43 100
58 36.8 30.9 46.3



#52
Toluene
Concen: 3.602 ug/l
RT: 10.42 min Scan# 1445
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 92 Resp: 21368
Ion Ratio Lower Upper
92 100
91 171.7 139.7 209.5





#53

t-1,3-Dichloropropene

Concen: 3.557 ug/l

RT: 10.64 min Scan# 1482

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

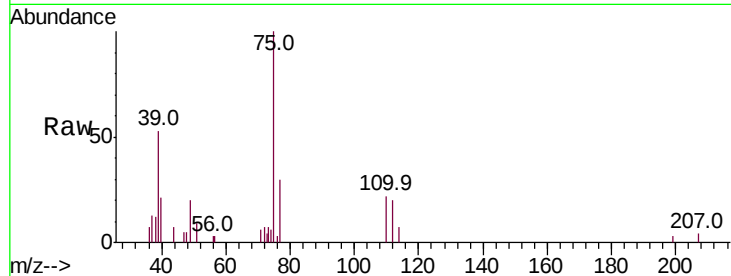
ClientSampleId :

Tot Ion: 75 Resp: 11087

Ion Ratio Lower Upper

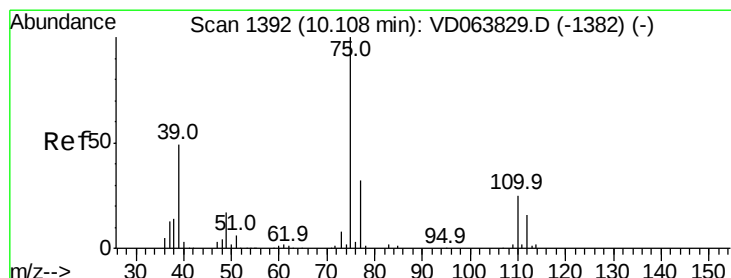
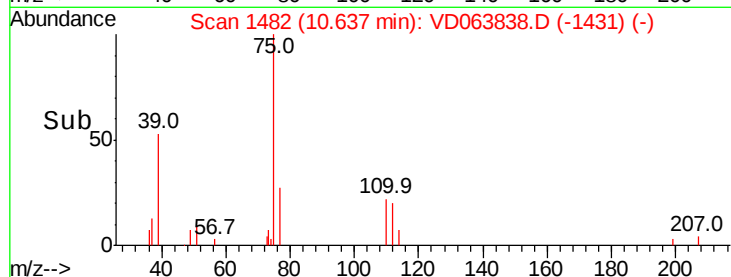
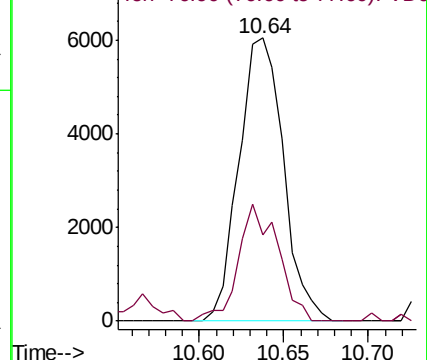
75 100

77 30.4 24.9 37.3



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#54

cis-1,3-Dichloropropene

Concen: 3.595 ug/l

RT: 10.11 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

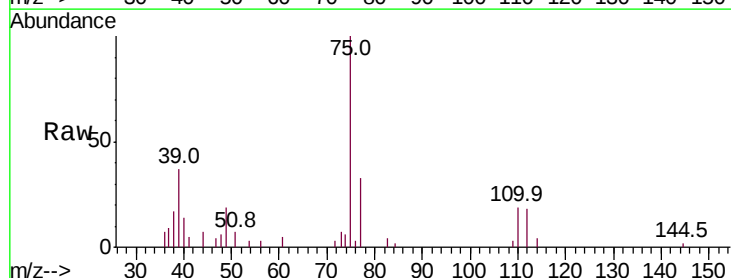
Tgt Ion: 75 Resp: 12717

Ion Ratio Lower Upper

75 100

77 33.0 25.8 38.8

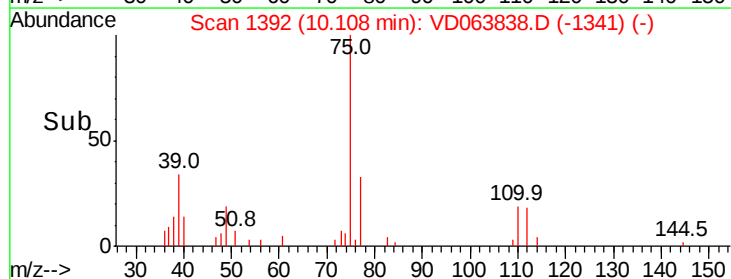
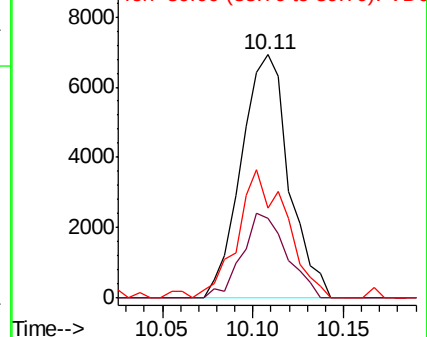
39 37.1 39.5 59.3#

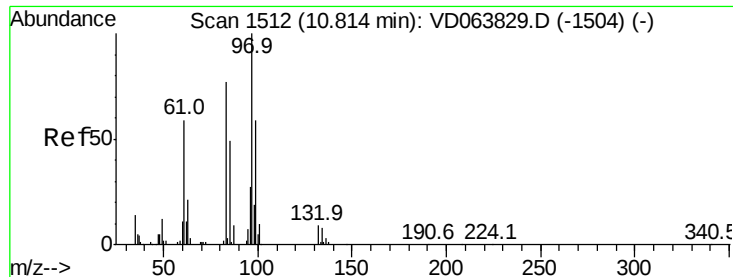


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 76.90 (76.60 to 77.60): VDC

Ion 39.00 (38.70 to 39.70): VDC





#55

1,1,2-Trichloroethane

Concen: 3.497 ug/l

RT: 10.82 min Scan# 1513

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 6027

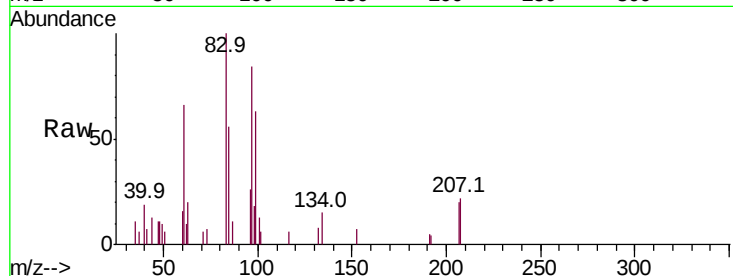
Ion	Ratio	Lower	Upper
97	100		
83	119.6	61.9	92.9#
85	66.5	39.4	59.2#
99	74.9	47.3	70.9#

97 100

83 119.6 61.9 92.9#

85 66.5 39.4 59.2#

99 74.9 47.3 70.9#



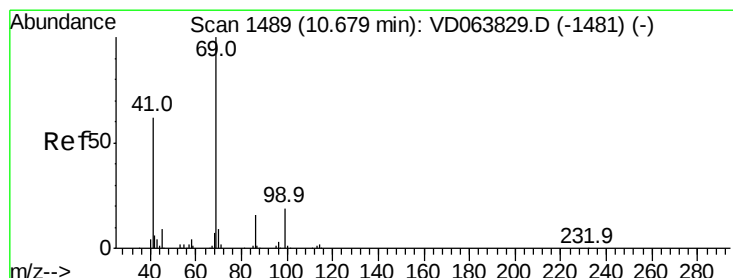
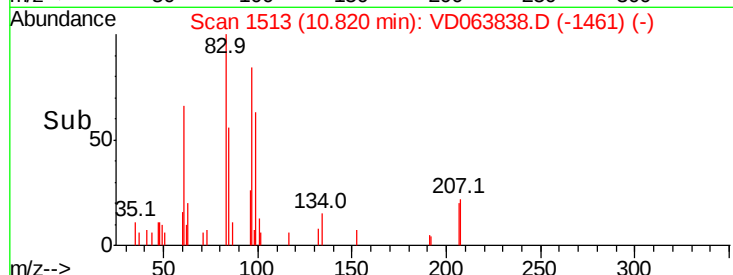
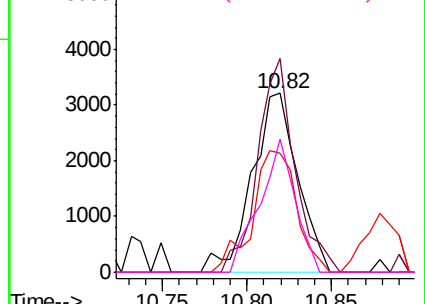
Abundance

Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC



#56

Ethyl methacrylate

Concen: 3.741 ug/l

RT: 10.68 min Scan# 1489

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

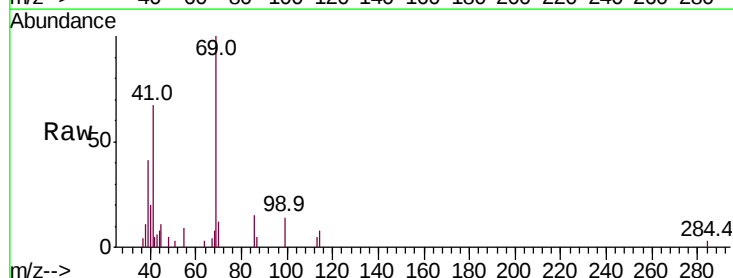
Tgt Ion: 69 Resp: 8195

Ion	Ratio	Lower	Upper
69	100		
41	76.5	52.2	78.4
39	39.1	28.7	43.1

69 100

41 76.5 52.2 78.4

39 39.1 28.7 43.1

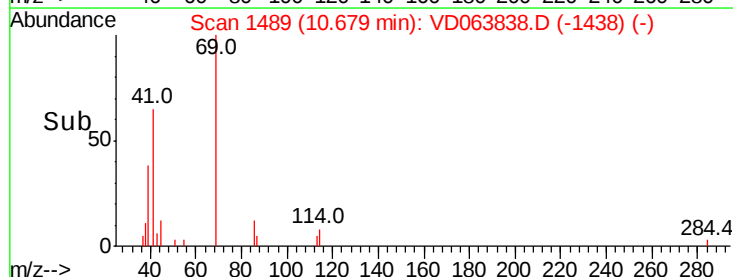
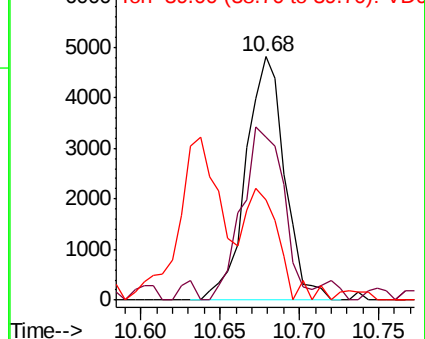


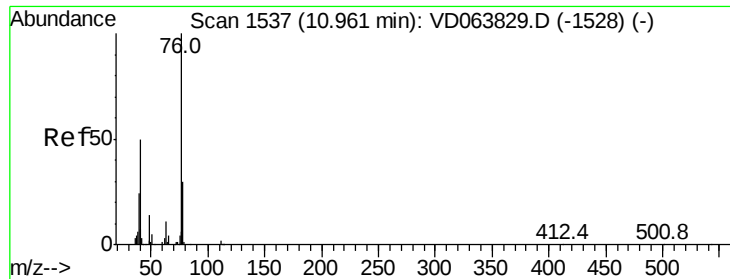
Abundance

Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#57

1,3-Dichloropropane

Concen: 3.977 ug/l

RT: 10.97 min Scan# 1538

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

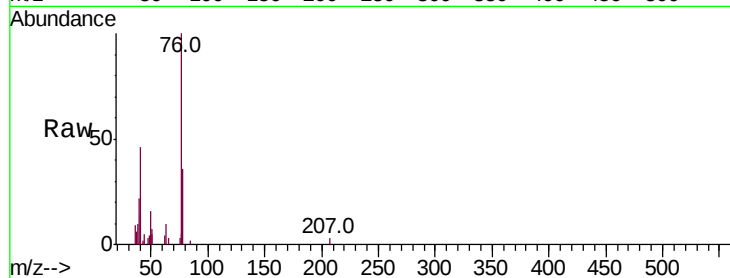
ClientSampleId :

Tot Ion: 76 Resp: 11647

Ion Ratio Lower Upper

76 100

78 31.7 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

10.97

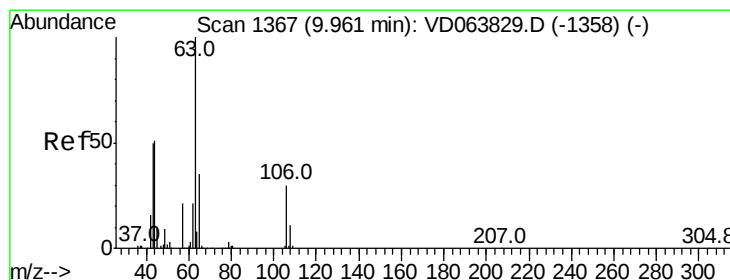
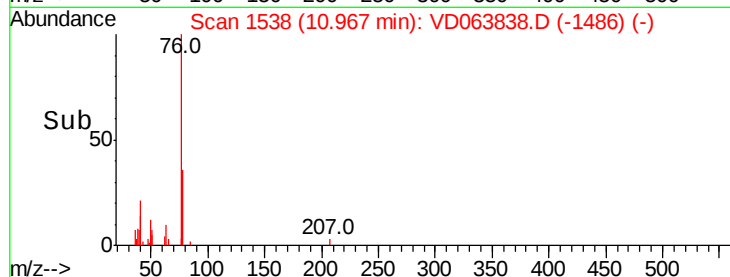
6000

4000

2000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 18.216 ug/l

RT: 9.96 min Scan# 1367

Delta R.T. -0.00 min

Lab File: VD063838.D

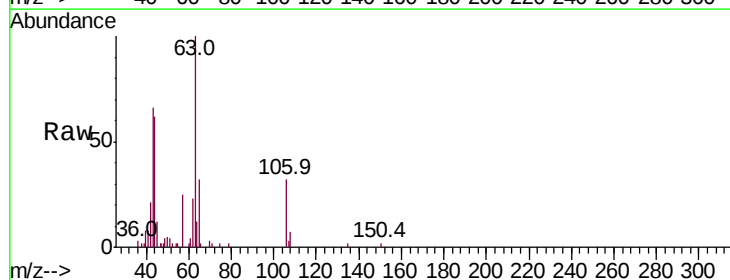
Acq: 26 Sep 2019 15:02

Tgt Ion: 63 Resp: 17834

Ion Ratio Lower Upper

63 100

106 29.9 23.4 35.0



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): V

12000

10000

8000

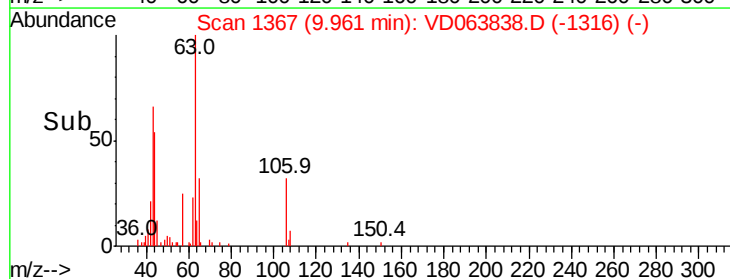
6000

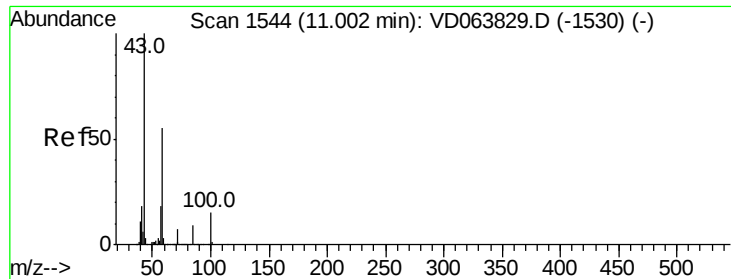
4000

2000

0

Time-->

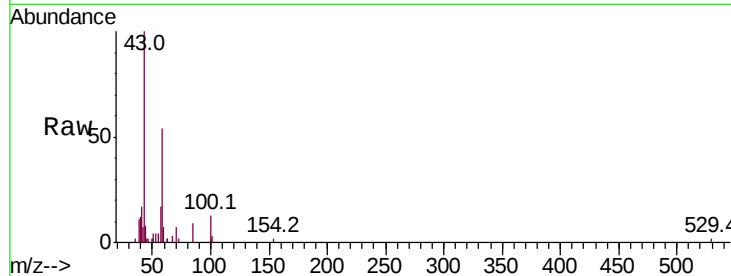




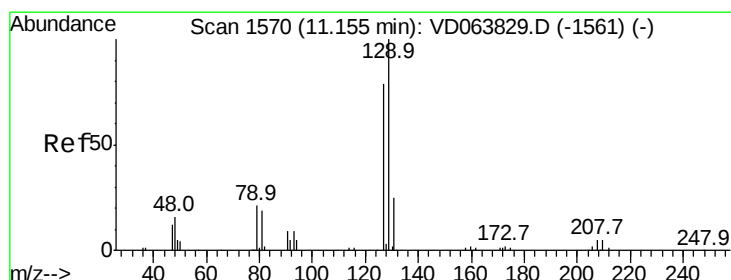
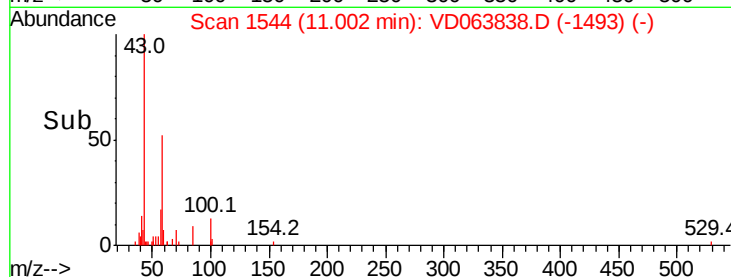
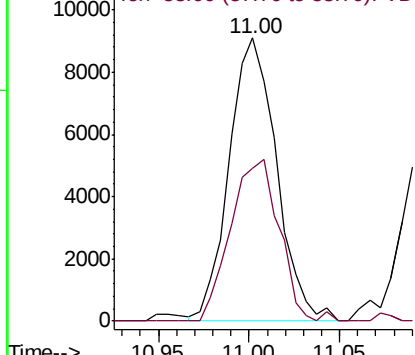
#59
2-Hexanone
Concen: 17.342 ug/l
RT: 11.00 min Scan# 1544
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 16578
Ion Ratio Lower Upper
43 100
58 57.9 27.6 82.7

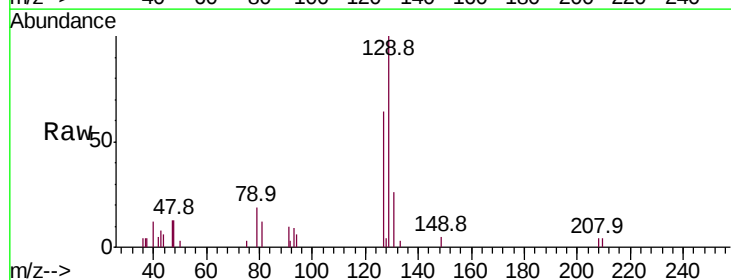


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 58.00 (57.70 to 58.70): VDC

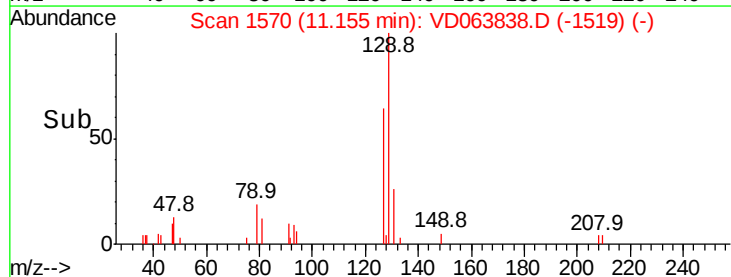
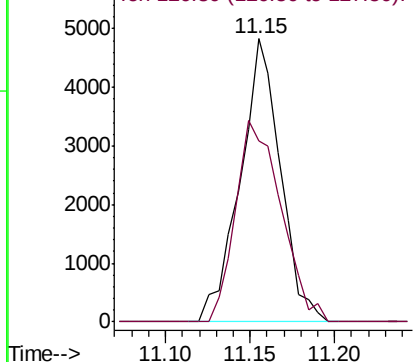


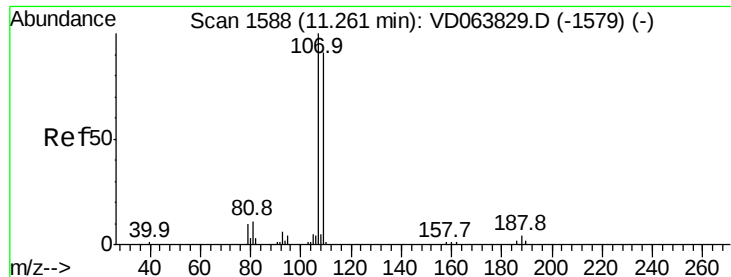
#60
Dibromochloromethane
Concen: 3.519 ug/l
RT: 11.15 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 129 Resp: 8003
Ion Ratio Lower Upper
129 100
127 80.5 38.8 116.3



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





#61

1,2-Dibromoethane

Concen: 3.697 ug/l

RT: 11.26 min Scan# 1588

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

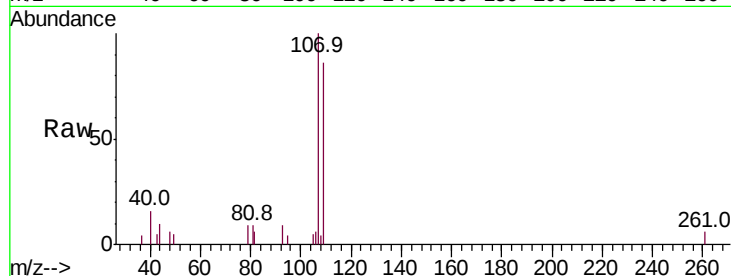
ClientSampleId :

Tot Ion:107 Resp: 6370

Ion Ratio Lower Upper

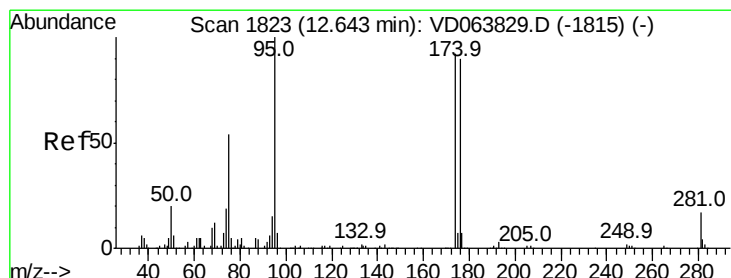
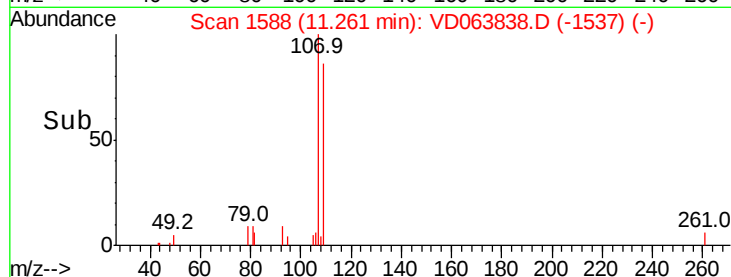
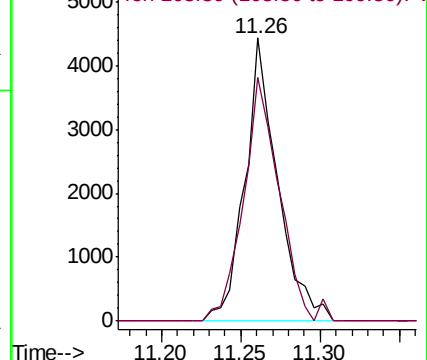
107 100

109 92.7 74.9 112.3



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 48.138 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

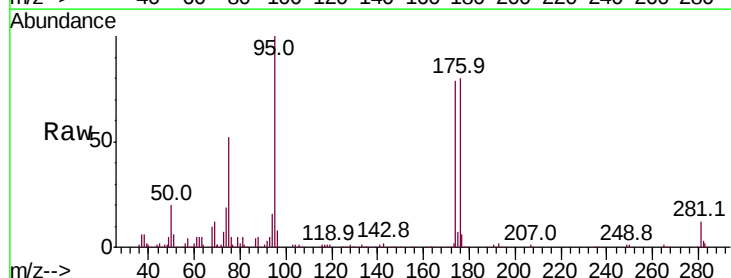
Tgt Ion: 95 Resp: 143755

Ion Ratio Lower Upper

95 100

174 89.9 0.0 183.2

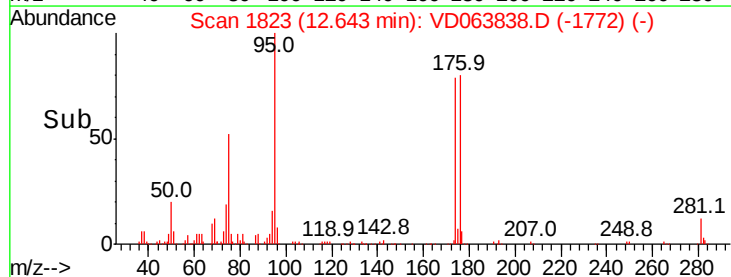
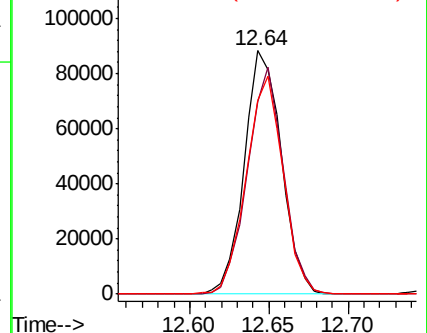
176 88.8 0.0 177.4

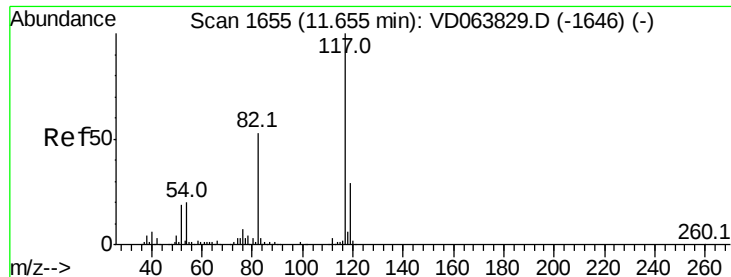


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

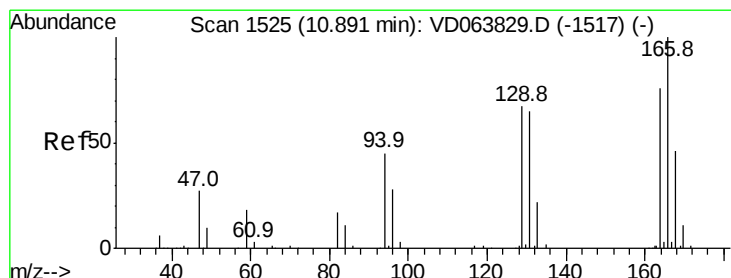
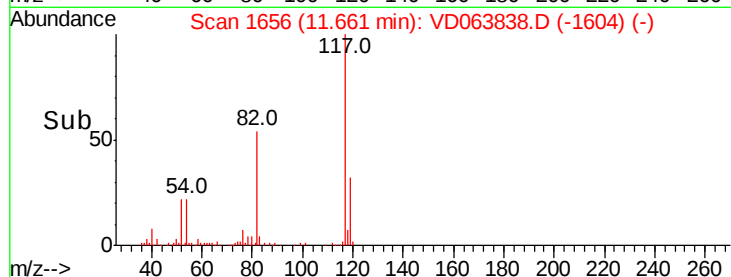
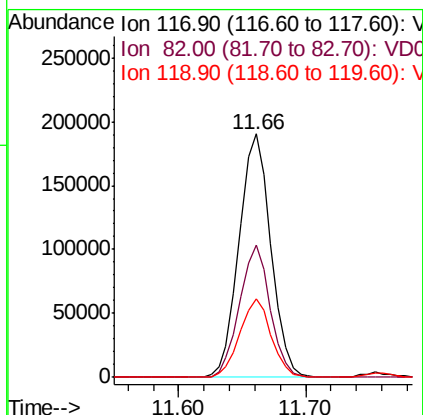
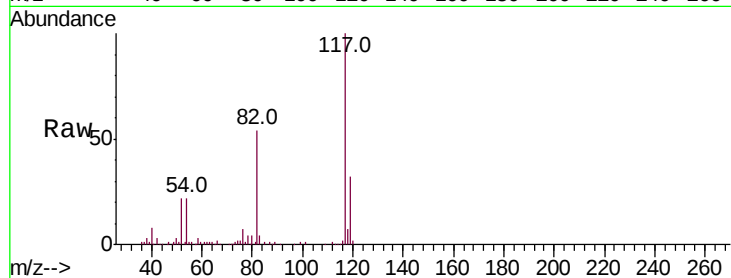




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.66 min Scan# 1656
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

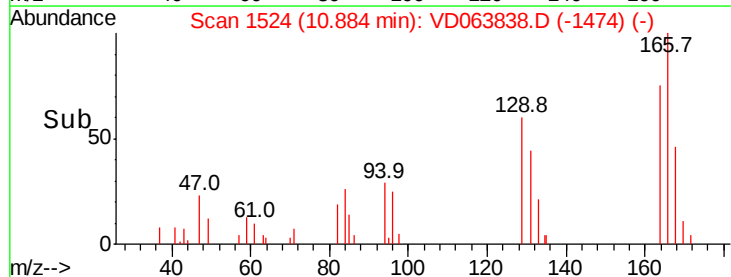
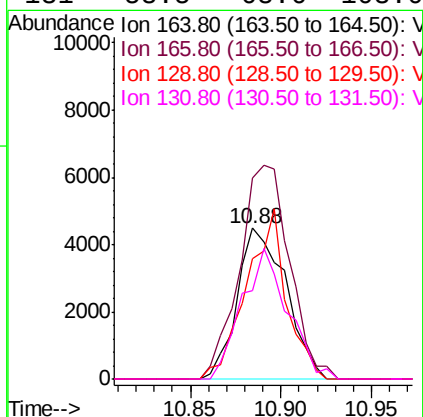
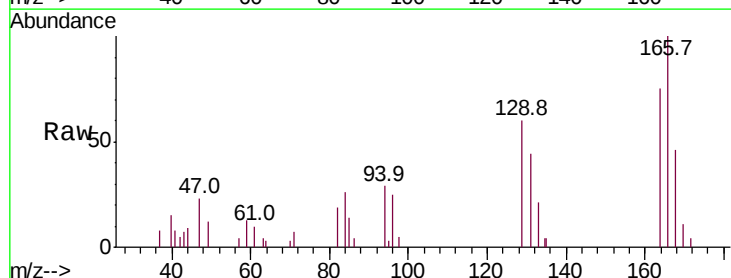
Instrument :
MSVOA_D
ClientSampled :

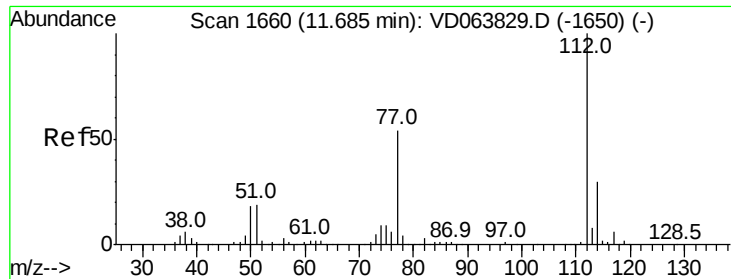
Tot Ion:117 Resp: 330873
Ion Ratio Lower Upper
117 100
82 54.1 42.4 63.6
119 32.2 23.5 35.3



#64
Tetrachloroethene
Concen: 3.760 ug/l
RT: 10.88 min Scan# 1524
Delta R.T. -0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion:164 Resp: 8381
Ion Ratio Lower Upper
164 100
166 133.9 105.5 158.3
129 79.9 70.2 105.4
131 58.5 68.6 103.0#

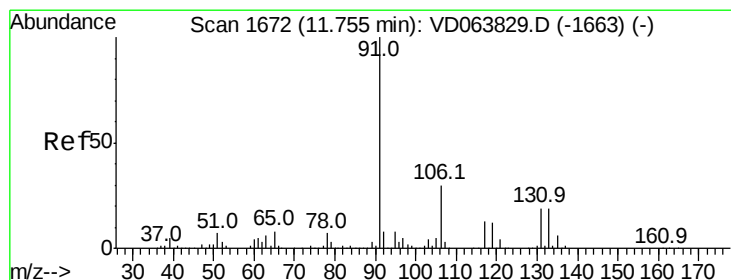
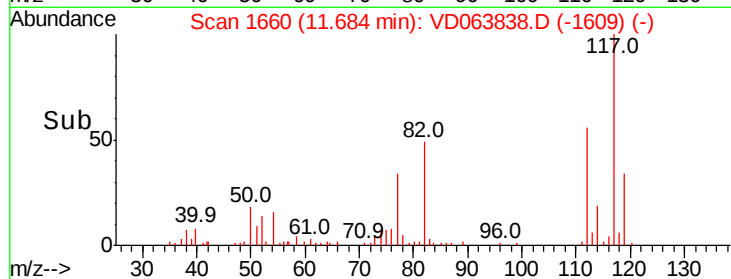
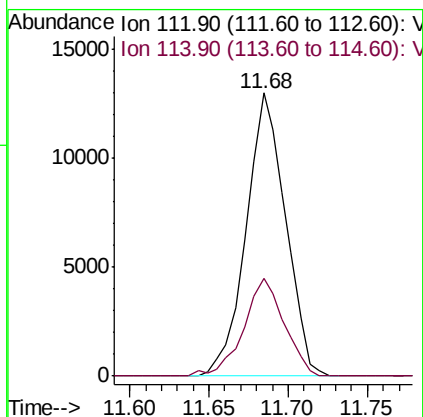
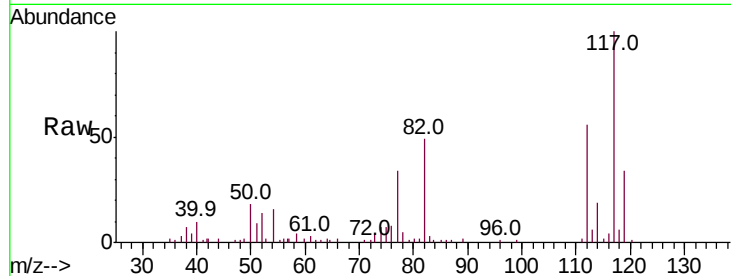




#65
Chlorobenzene
Concen: 3.363 ug/l
RT: 11.68 min Scan# 1660
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

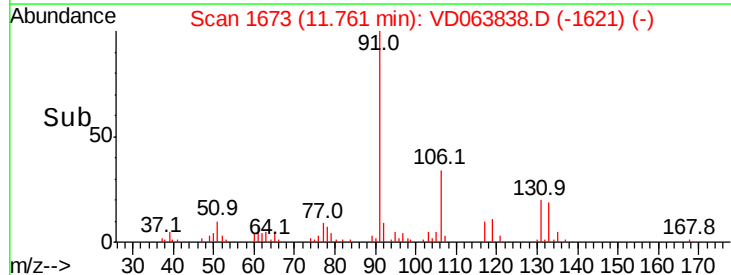
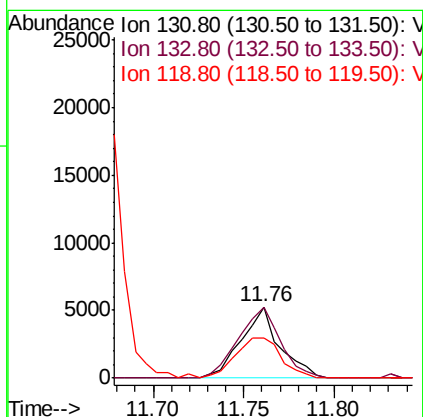
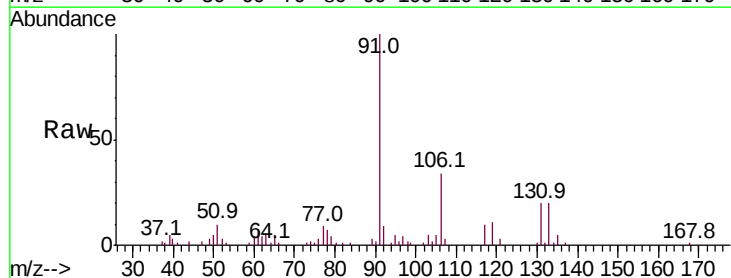
Instrument :
MSVOA_D
ClientSampled :

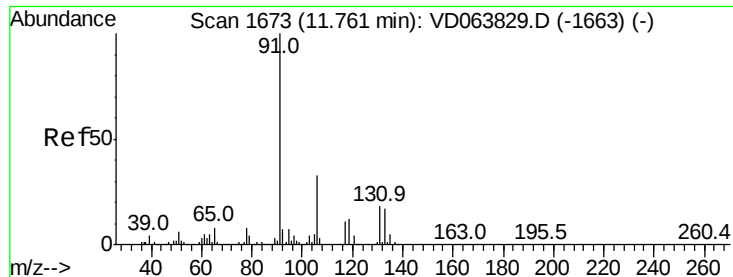
Tot Ion:112 Resp: 22384
Ion Ratio Lower Upper
112 100
114 34.4 24.2 36.2



#66
1,1,1,2-Tetrachloroethane
Concen: 3.175 ug/l
RT: 11.76 min Scan# 1673
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion:131 Resp: 7766
Ion Ratio Lower Upper
131 100
133 108.0 47.4 142.3
119 67.4 31.6 94.8





#67

Ethyl Benzene

Concen: 3.483 ug/l

RT: 11.76 min Scan# 1673

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

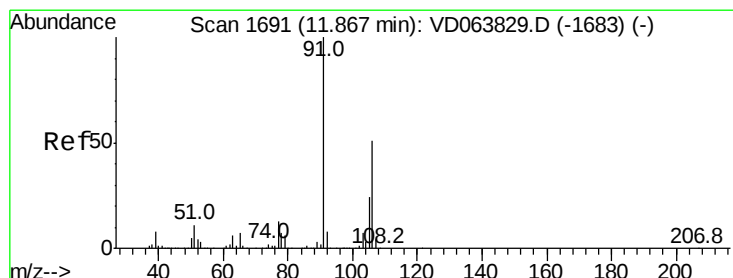
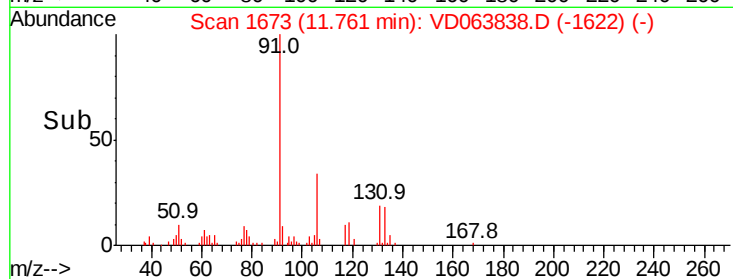
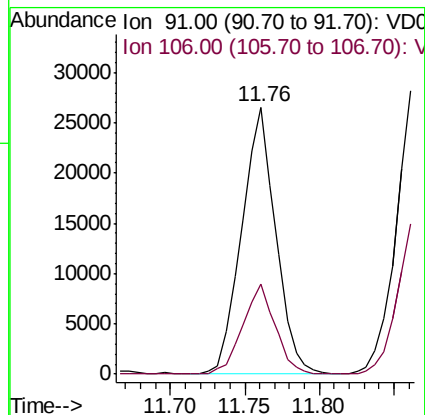
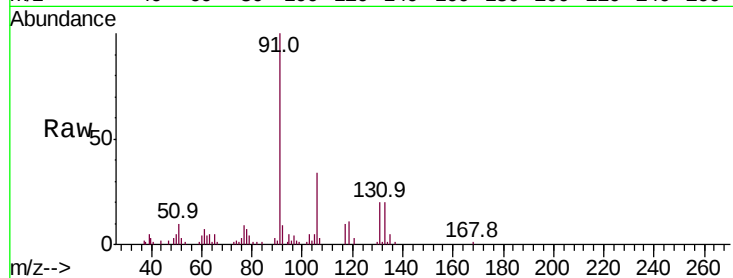
ClientSampled :

Tot Ion: 91 Resp: 41875

Ion Ratio Lower Upper

91 100

106 33.7 26.6 40.0



#68

m/p-Xylenes

Concen: 7.243 ug/l

RT: 11.87 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VD063838.D

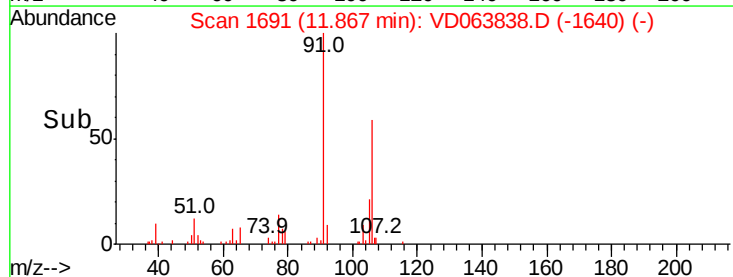
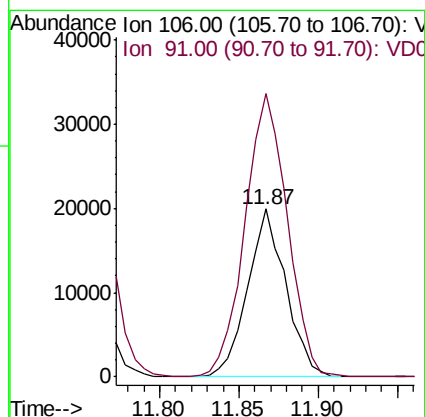
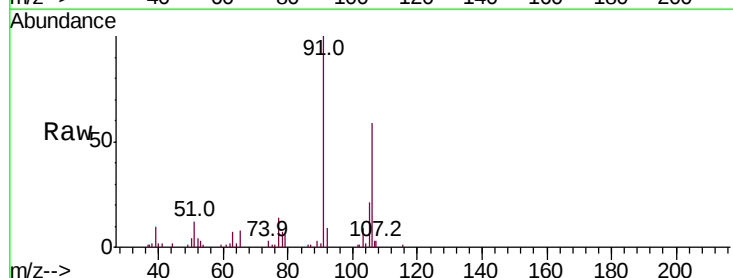
Acq: 26 Sep 2019 15:02

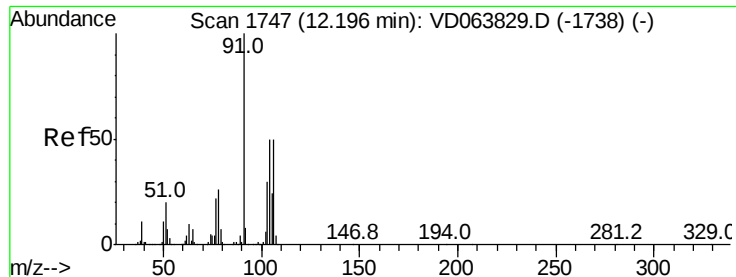
Tgt Ion: 106 Resp: 33439

Ion Ratio Lower Upper

106 100

91 186.7 157.6 236.4

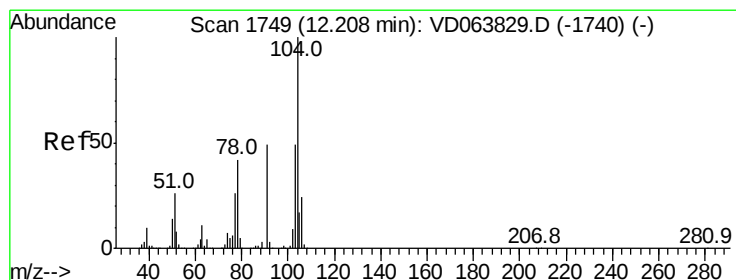
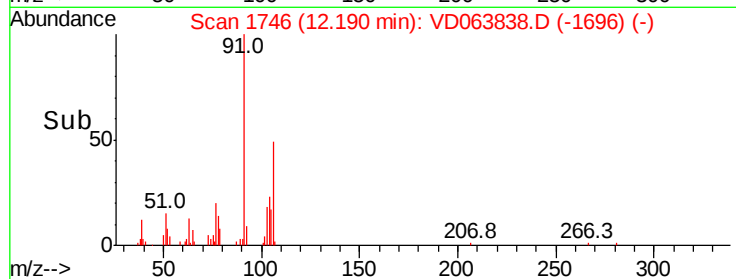
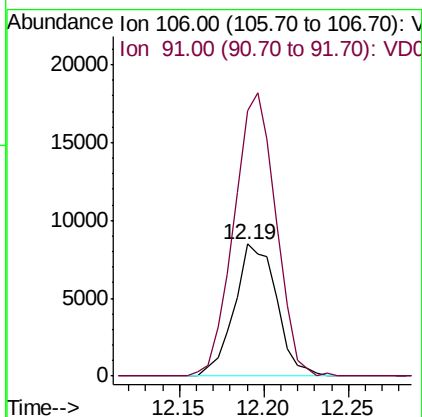
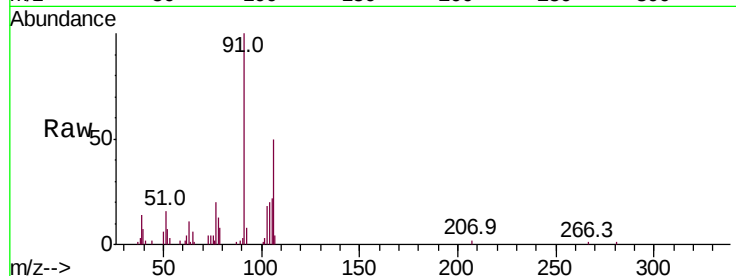




#69
o-Xylene
Concen: 3.391 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. -0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

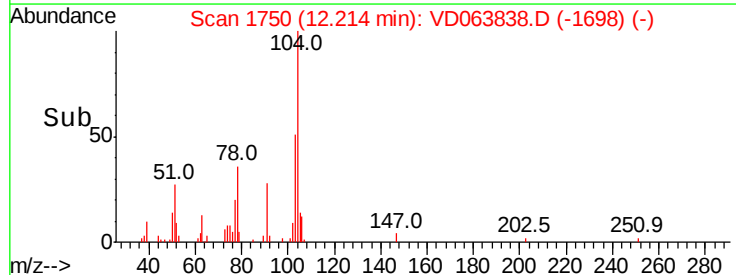
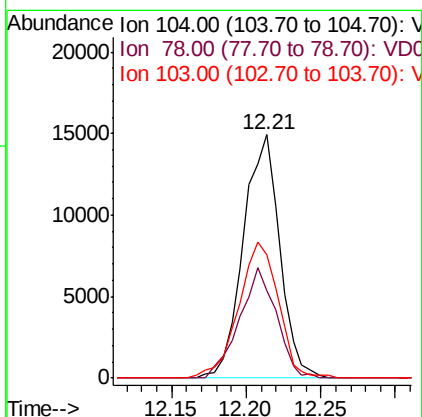
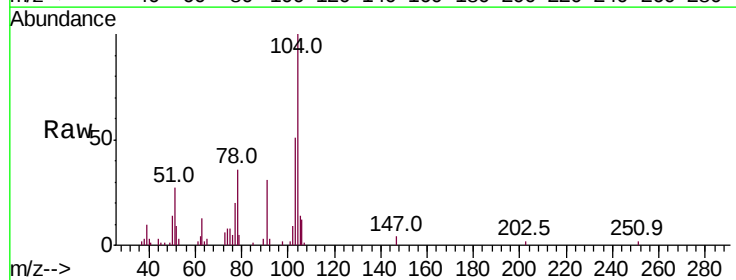
Instrument :
MSVOA_D
ClientSampled :

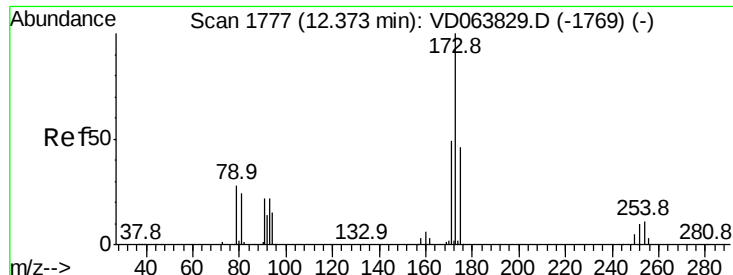
Tot Ion:106 Resp: 14778
Ion Ratio Lower Upper
106 100
91 211.8 102.4 307.1



#70
Styrene
Concen: 3.416 ug/l
RT: 12.21 min Scan# 1750
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion:104 Resp: 25191
Ion Ratio Lower Upper
104 100
78 45.9 37.3 55.9
103 60.9 44.2 66.4





#71

Bromoform

Concen: 2.899 ug/l

RT: 12.38 min Scan# 1778

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

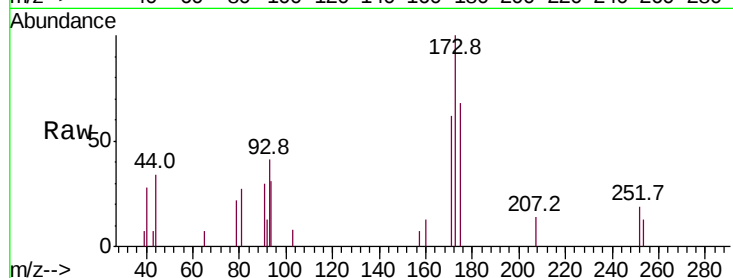
Tot Ion:173 Resp: 3939

Ion Ratio Lower Upper

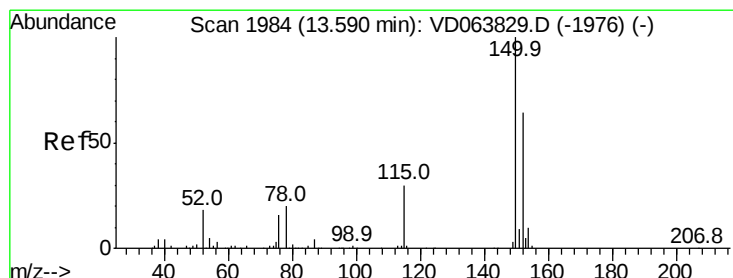
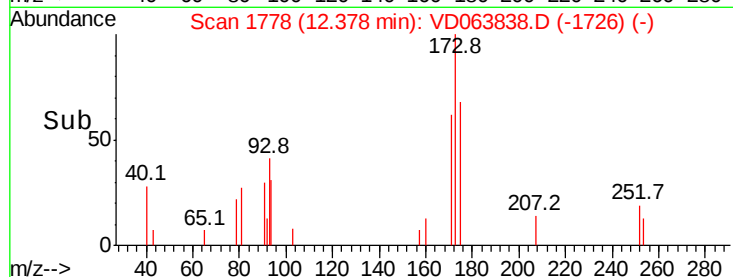
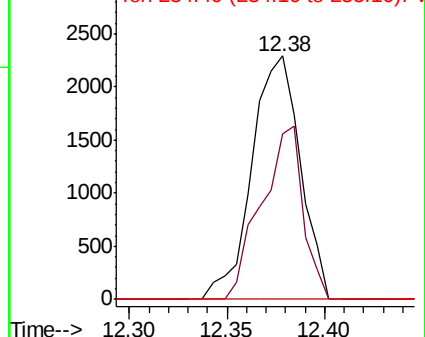
173 100

175 61.0 23.3 69.8

254 0.0 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: 13.59 min Scan# 1984

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

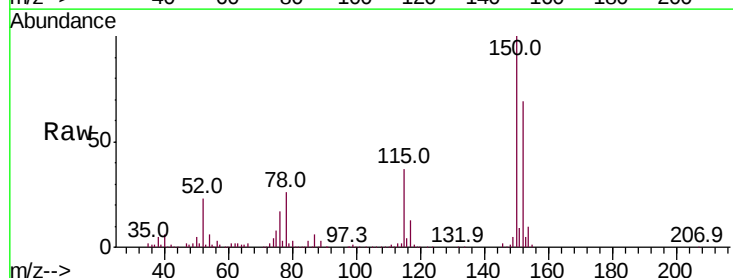
Tgt Ion:152 Resp: 168389

Ion Ratio Lower Upper

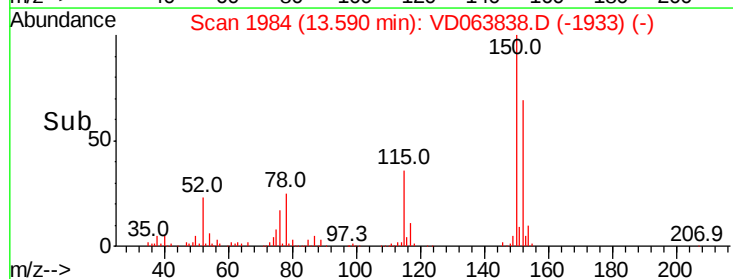
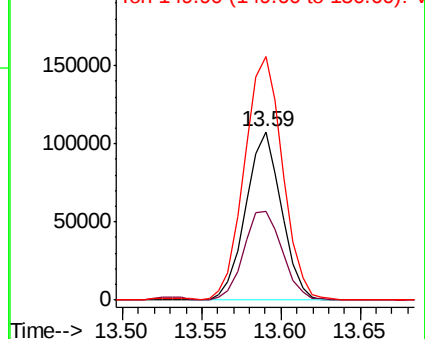
152 100

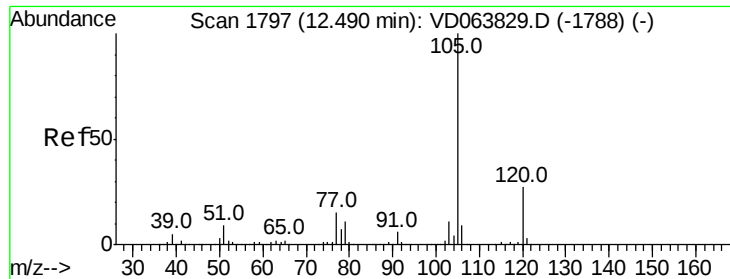
115 57.1 27.0 81.0

150 155.0 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: 3.592 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

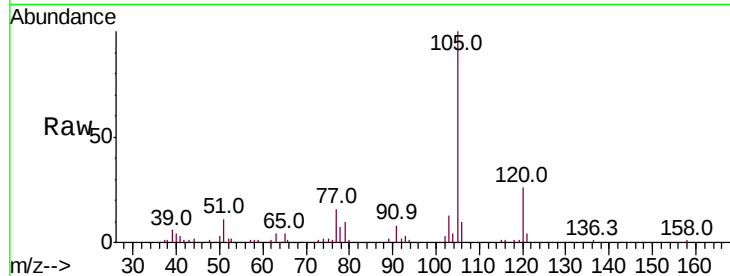
ClientSampleId :

Tot Ion:105 Resp: 41315

Ion Ratio Lower Upper

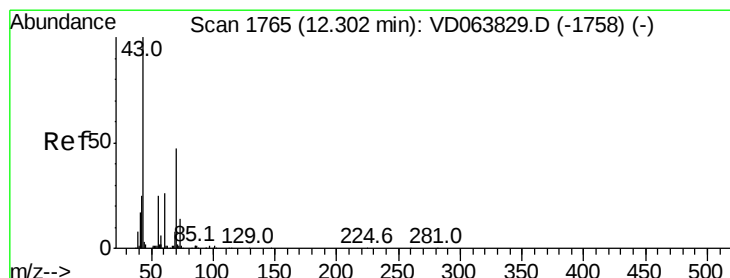
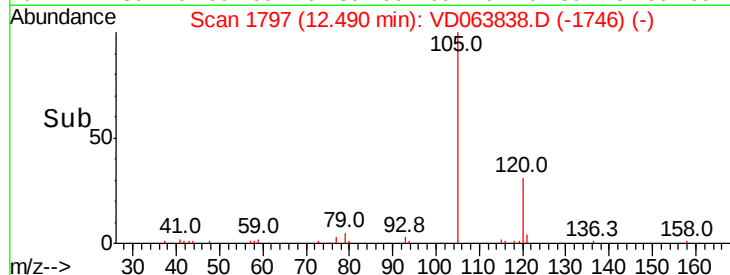
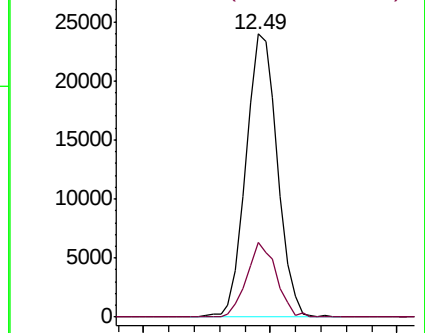
105 100

120 24.8 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: 3.710 ug/l

RT: 12.30 min Scan# 1765

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Tgt Ion: 43 Resp: 9342

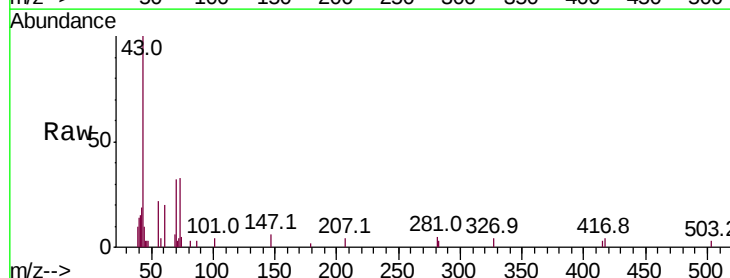
Ion Ratio Lower Upper

43 100

70 36.2 35.0 52.6

55 25.1 19.8 29.6

61 24.8 19.6 29.4

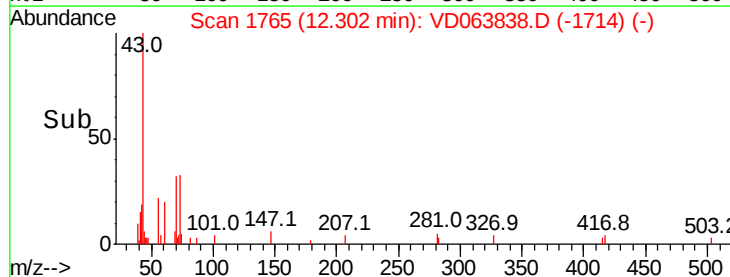
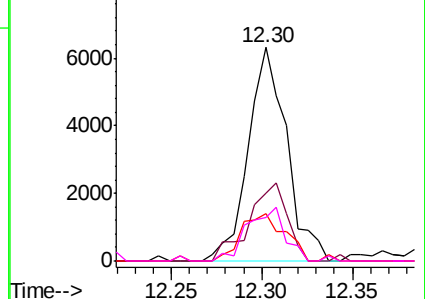


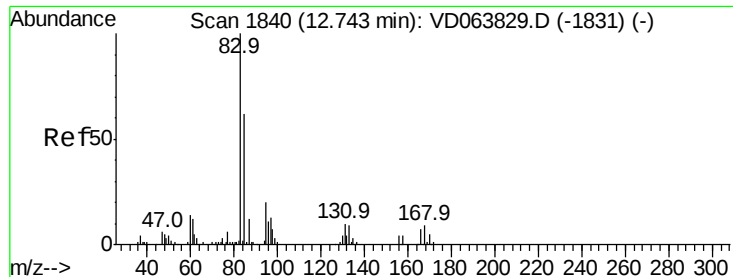
Abundance Ion 43.00 (42.70 to 43.70): V

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: 3.893 ug/l

RT: 12.75 min Scan# 1841

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampled :

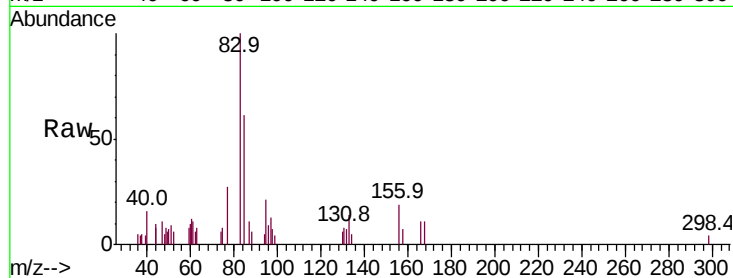
Tot Ion: 83 Resp: 7463

Ion Ratio Lower Upper

83 100

131 5.8 5.6 16.8

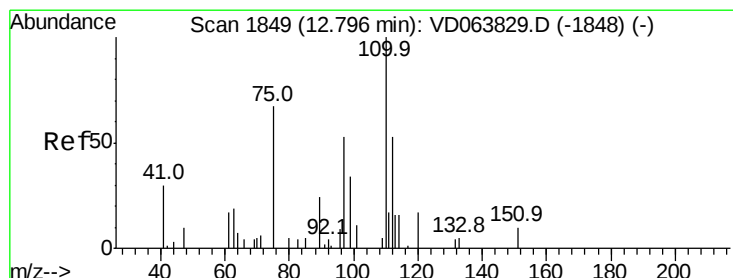
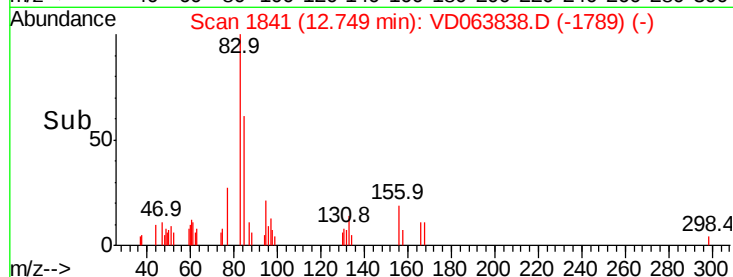
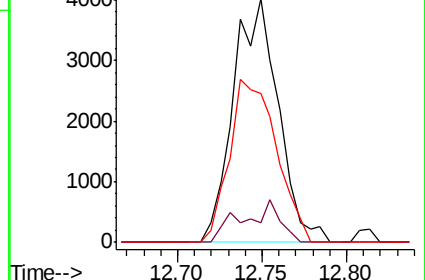
85 0.0 31.9 95.7#



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: 7.466 ug/l

RT: 12.80 min Scan# 1850

Delta R.T. 0.01 min

Lab File: VD063838.D

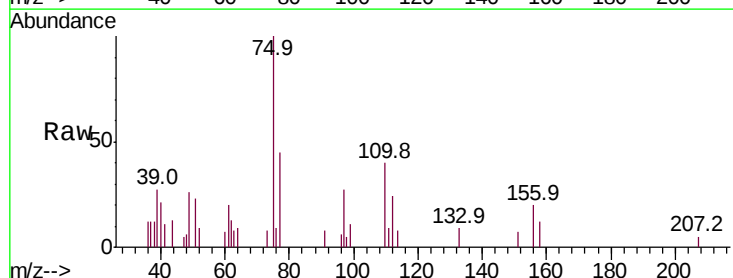
Acq: 26 Sep 2019 15:02

Tgt Ion: 75 Resp: 9533

Ion Ratio Lower Upper

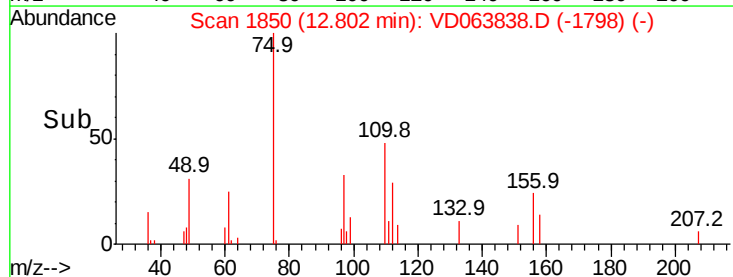
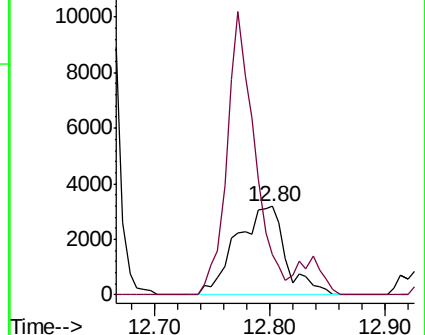
75 100

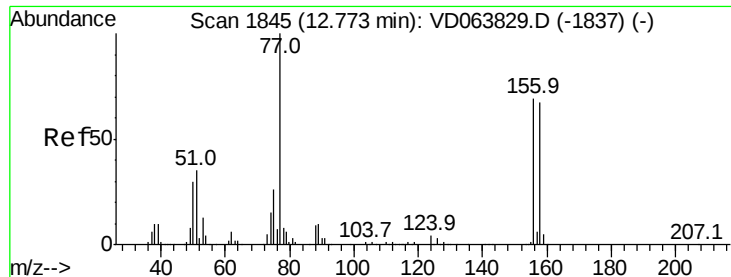
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 3.668 ug/l

RT: 12.78 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

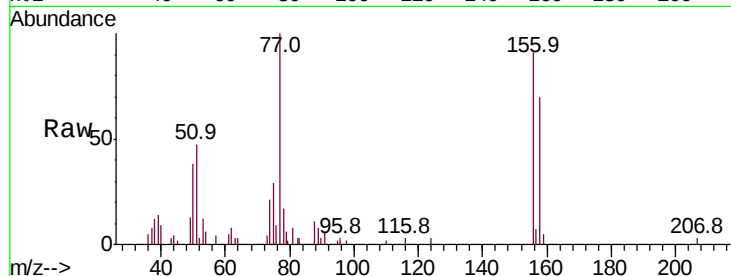
Tot Ion:156 Resp: 10139

Ion Ratio Lower Upper

156 100

77 169.1 79.8 239.4

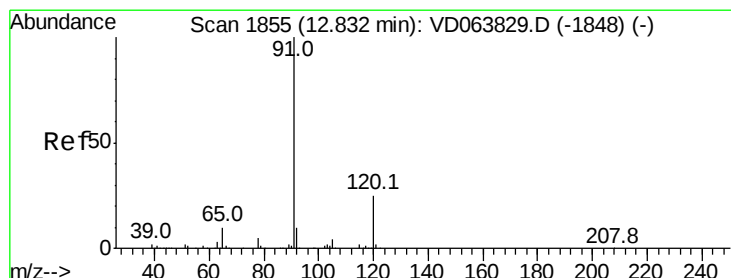
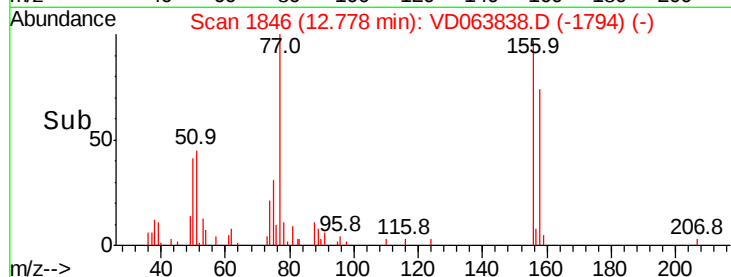
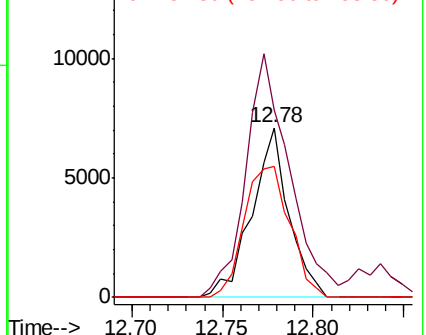
158 94.7 47.9 143.7



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): V

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 3.823 ug/l

RT: 12.84 min Scan# 1856

Delta R.T. 0.01 min

Lab File: VD063838.D

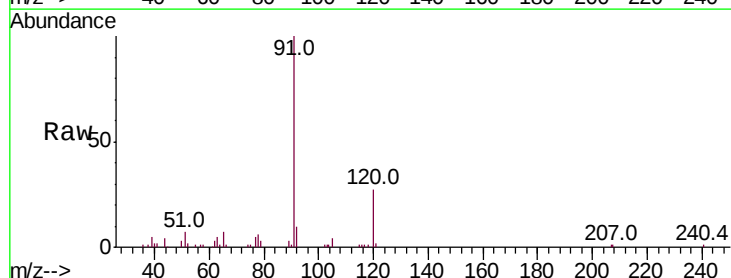
Acq: 26 Sep 2019 15:02

Tgt Ion: 91 Resp: 51726

Ion Ratio Lower Upper

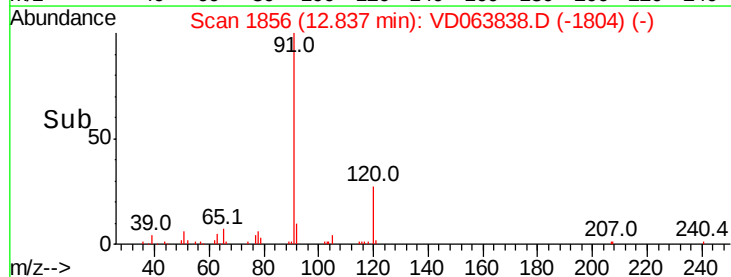
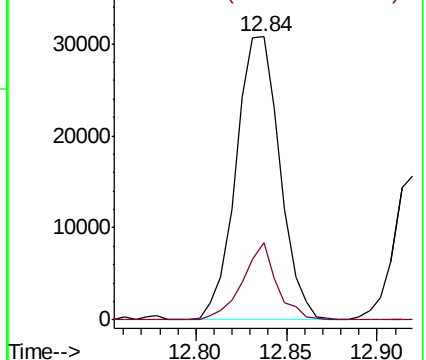
91 100

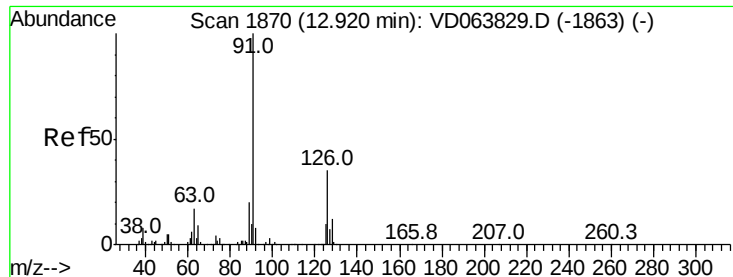
120 21.2 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 3.853 ug/l

RT: 12.92 min Scan# 1870

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

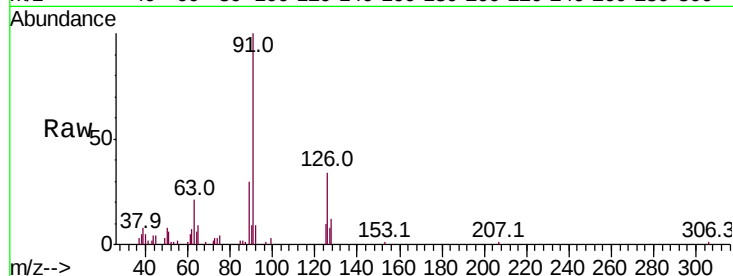
ClientSampleId :

Tot Ion: 91 Resp: 28123

Ion Ratio Lower Upper

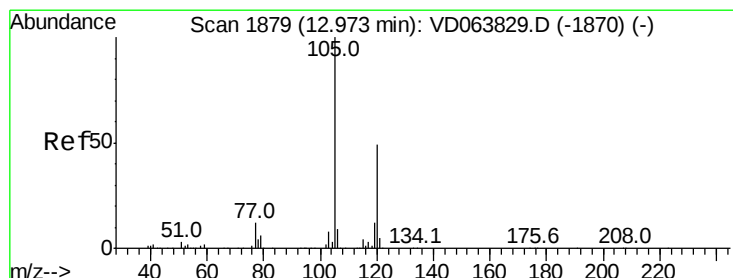
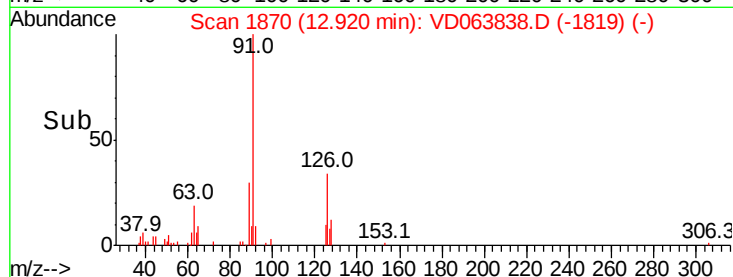
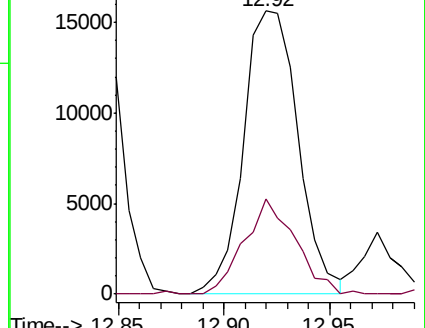
91 100

126 31.5 17.8 53.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 3.628 ug/l

RT: 12.97 min Scan# 1879

Delta R.T. -0.00 min

Lab File: VD063838.D

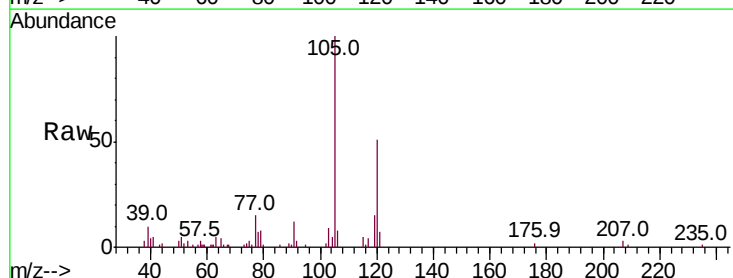
Acq: 26 Sep 2019 15:02

Tgt Ion:105 Resp: 34789

Ion Ratio Lower Upper

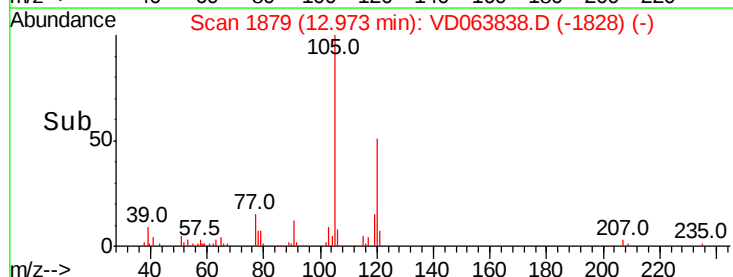
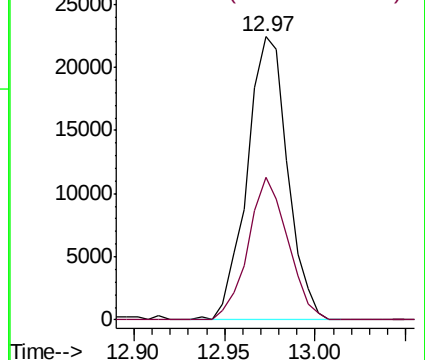
105 100

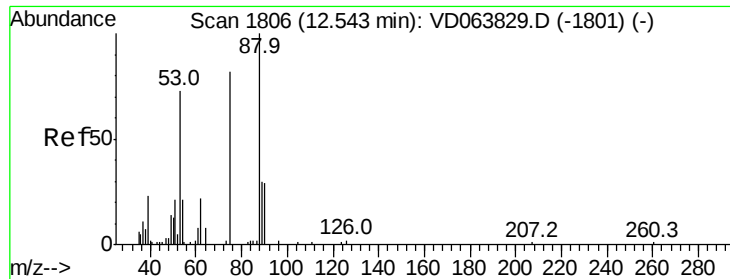
120 49.5 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 121.796 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.10 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

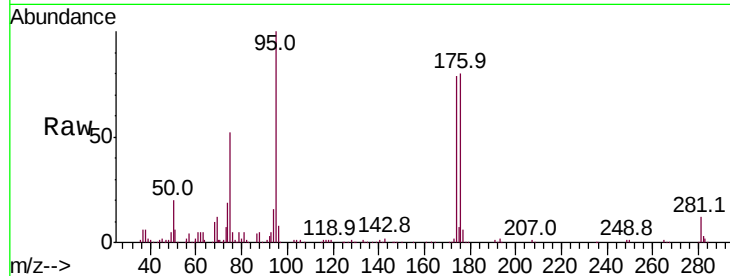
Tot Ion: 75 Resp: 77867

Ion Ratio Lower Upper

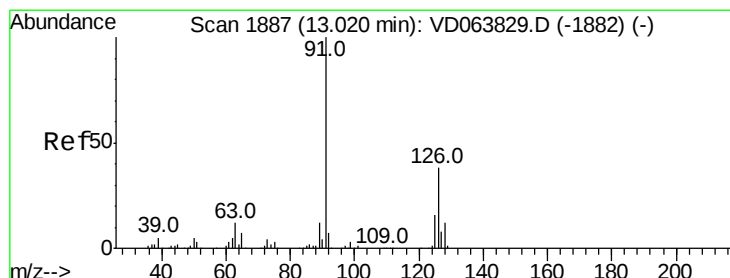
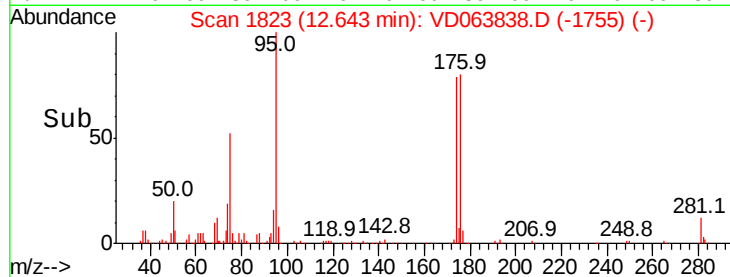
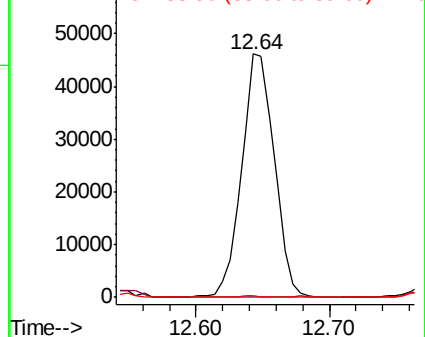
75 100

53 0.0 76.5 114.7#

89 0.3 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: 3.629 ug/l

RT: 13.02 min Scan# 1887

Delta R.T. -0.00 min

Lab File: VD063838.D

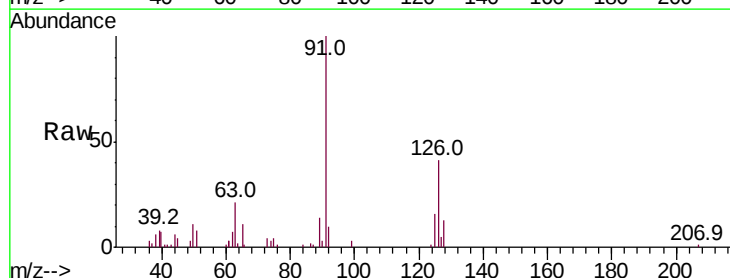
Acq: 26 Sep 2019 15:02

Tgt Ion: 91 Resp: 28251

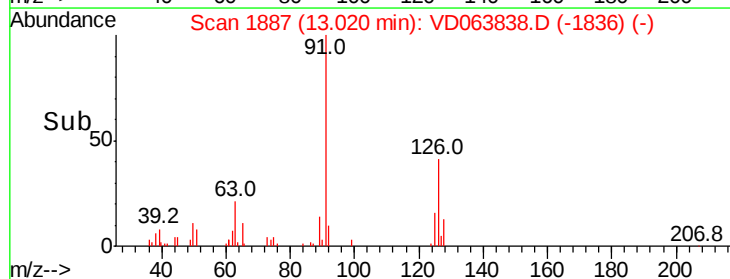
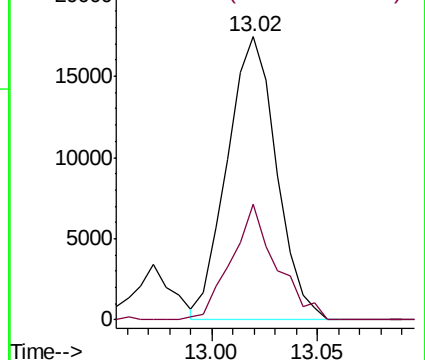
Ion Ratio Lower Upper

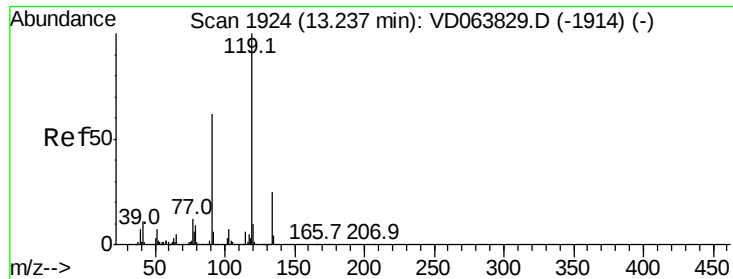
91 100

126 37.4 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: 3.562 ug/l

RT: 13.24 min Scan# 1924

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

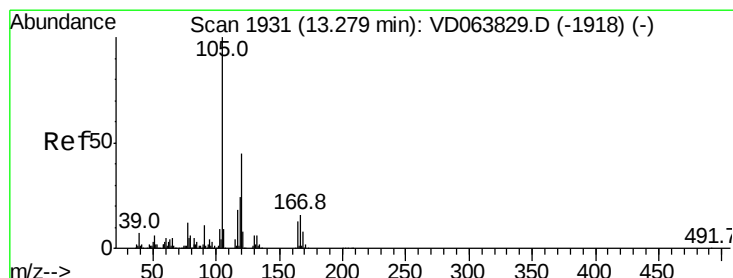
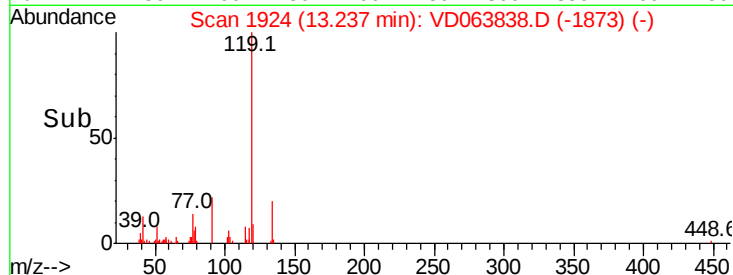
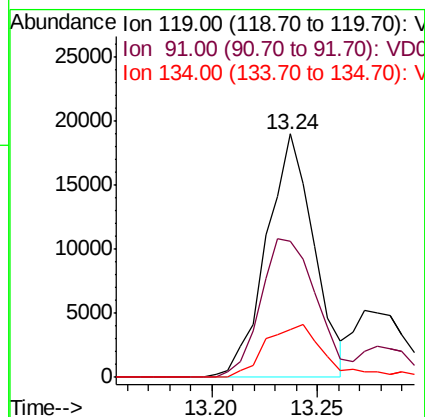
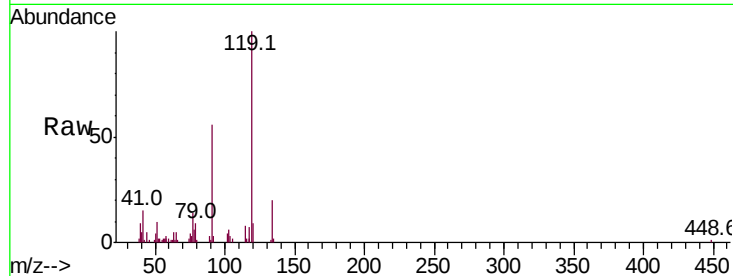
Tot Ion:119 Resp: 29842

Ion Ratio Lower Upper

119 100

91 67.4 30.8 92.3

134 27.3 13.2 39.6



#84

1,2,4-Trimethylbenzene

Concen: 3.550 ug/l

RT: 13.28 min Scan# 1932

Delta R.T. 0.01 min

Lab File: VD063838.D

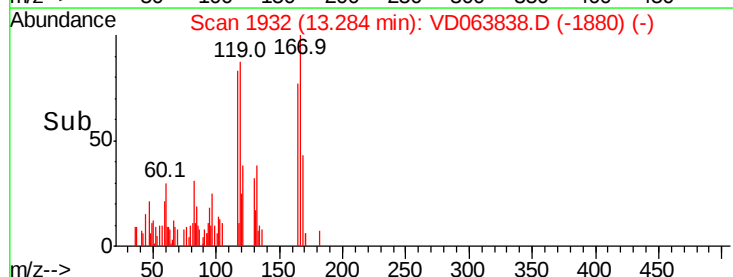
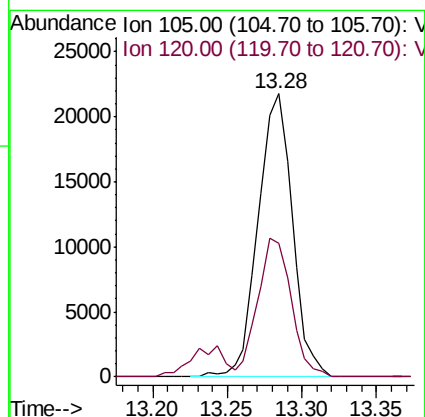
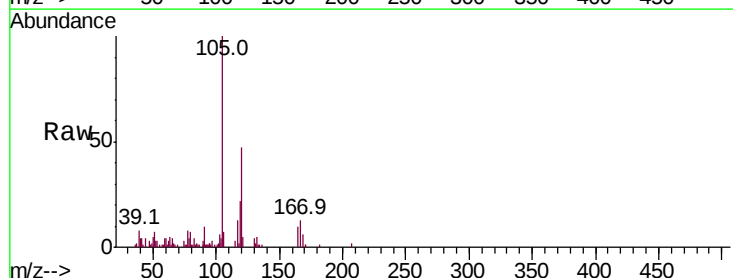
Acq: 26 Sep 2019 15:02

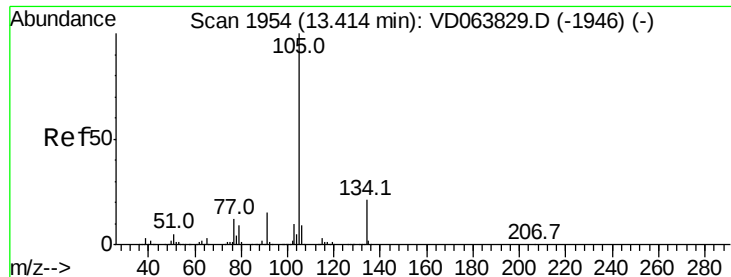
Tgt Ion:105 Resp: 34551

Ion Ratio Lower Upper

105 100

120 47.7 23.0 69.0





#85

sec-Butylbenzene

Concen: 3.663 ug/l

RT: 13.41 min Scan# 1954

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

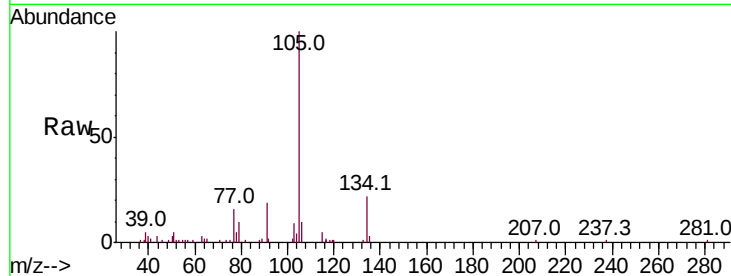
ClientSampleId :

Tot Ion:105 Resp: 42697

Ion Ratio Lower Upper

105 100

134 21.6 10.7 31.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.41

25000

20000

15000

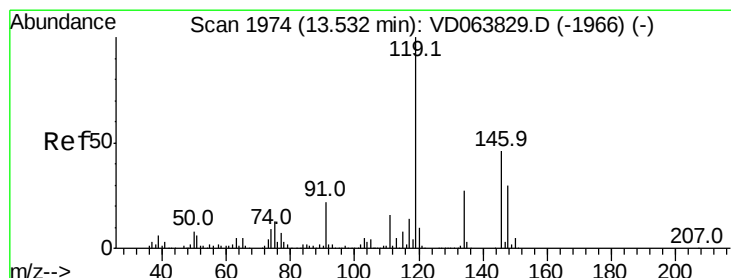
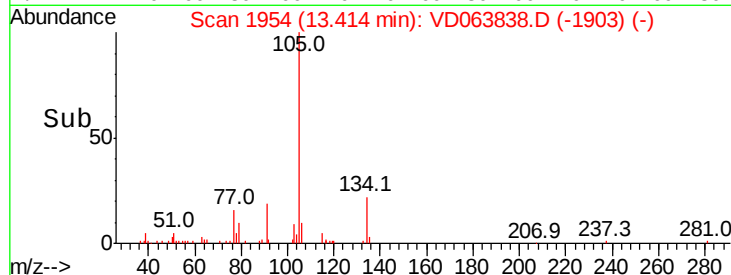
10000

5000

0

13.35 13.40 13.45

Time-->



#86

p-Isopropyltoluene

Concen: 3.408 ug/l

RT: 13.53 min Scan# 1974

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

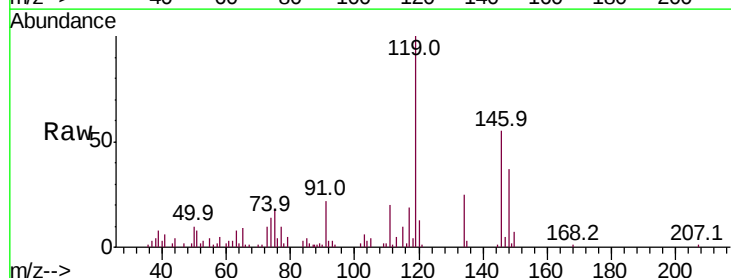
Tgt Ion:119 Resp: 37310

Ion Ratio Lower Upper

119 100

134 25.3 13.2 39.6

91 24.6 11.4 34.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

13.53

25000

20000

15000

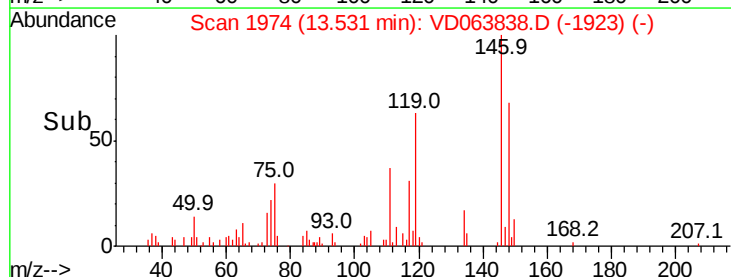
10000

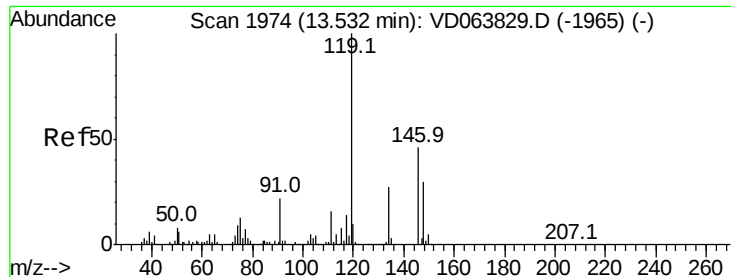
5000

0

13.45 13.50 13.55 13.60

Time-->





#87

1,3-Dichlorobenzene

Concen: 3.561 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. -0.01 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

Instrument :

MSVOA_D

ClientSampleId :

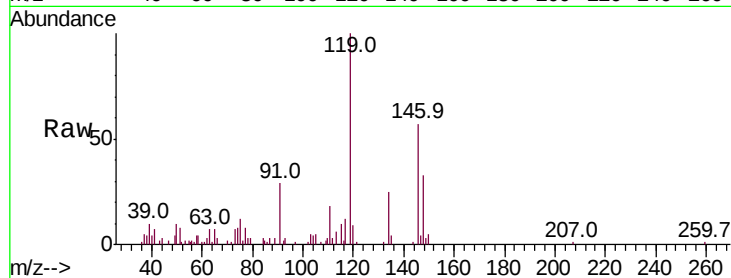
Tot Ion:146 Resp: 19324

Ion Ratio Lower Upper

146 100

111 35.8 18.3 54.8

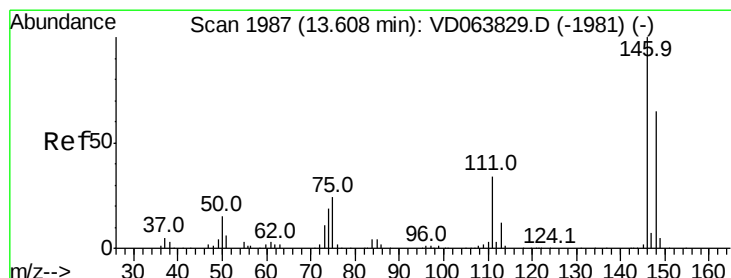
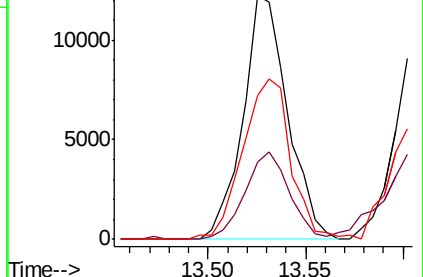
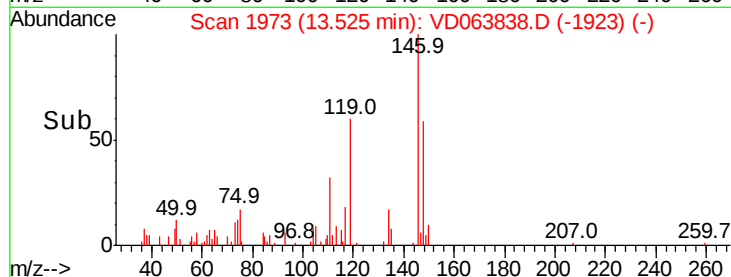
148 70.5 31.8 95.4



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: 3.653 ug/l

RT: 13.61 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VD063838.D

Acq: 26 Sep 2019 15:02

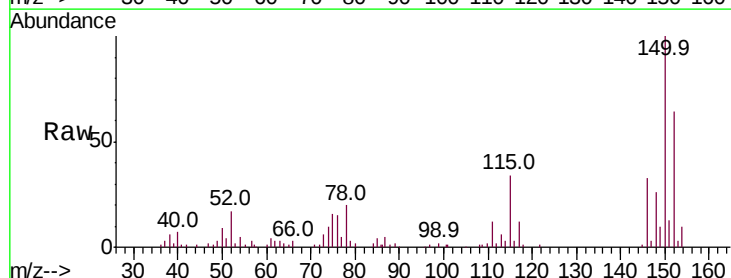
Tgt Ion:146 Resp: 19716

Ion Ratio Lower Upper

146 100

111 46.4 18.5 55.5

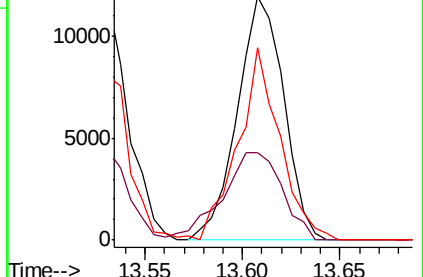
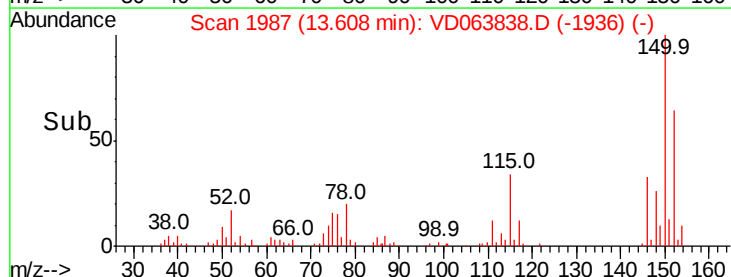
148 71.5 33.0 99.0

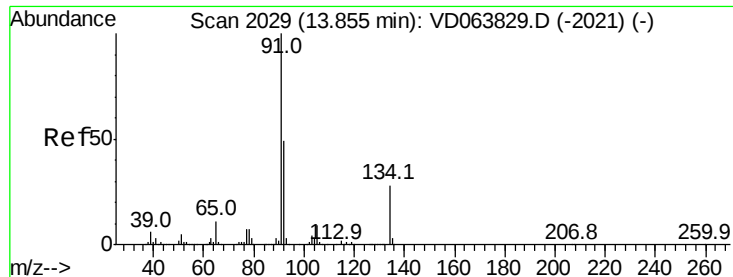


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

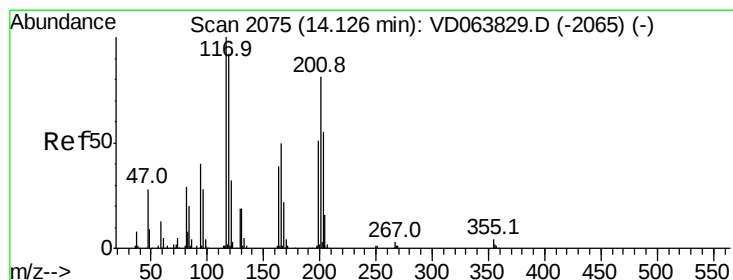
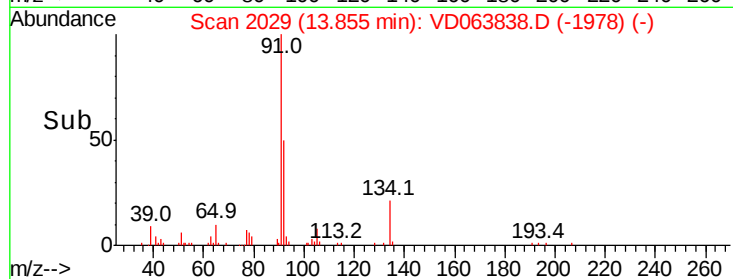
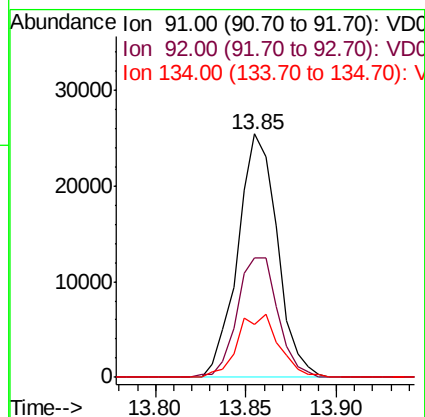
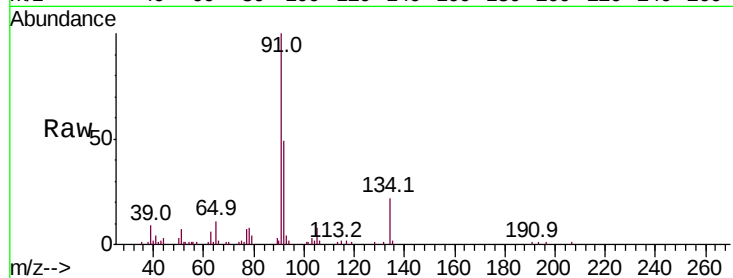




#89
n-Butylbenzene
Concen: 3.700 ug/l
RT: 13.85 min Scan# 2029
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

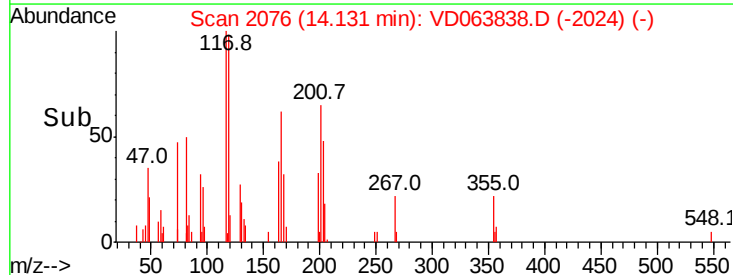
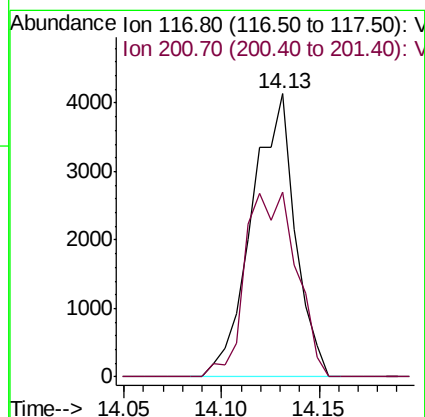
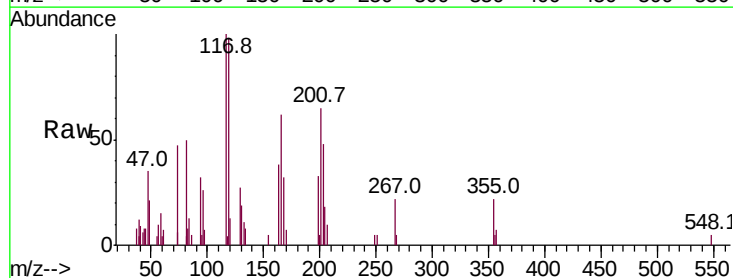
Instrument :
MSVOA_D
ClientSampleId :

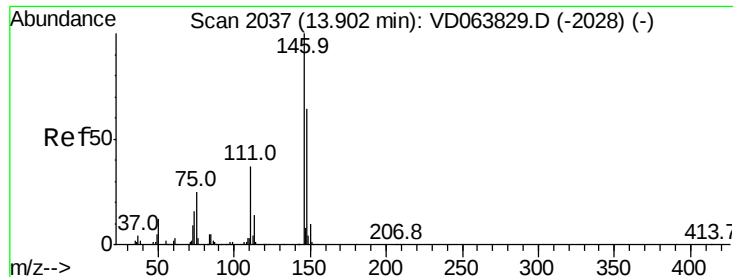
Tot Ion: 91 Resp: 38556
Ion Ratio Lower Upper
91 100
92 51.1 26.1 78.2
134 27.0 14.0 41.9



#90
Hexachloroethane
Concen: 3.139 ug/l
RT: 14.13 min Scan# 2076
Delta R.T. 0.01 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion: 117 Resp: 6365
Ion Ratio Lower Upper
117 100
201 77.2 39.3 117.8

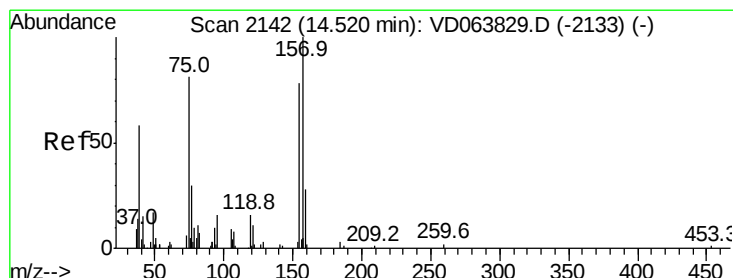
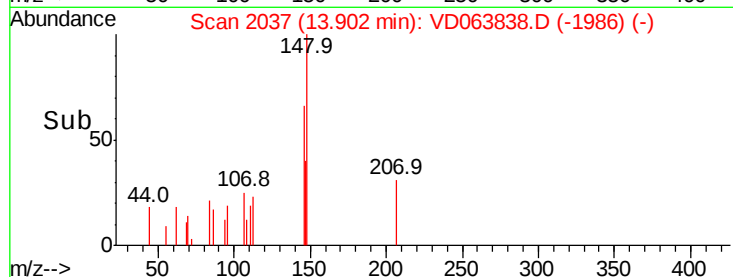
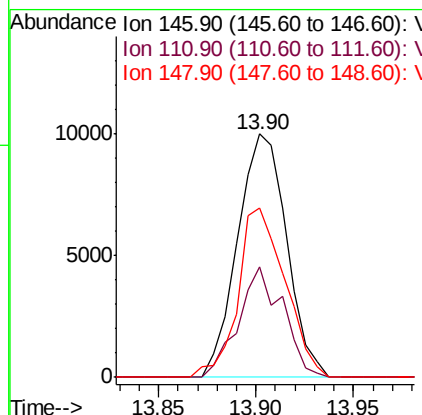
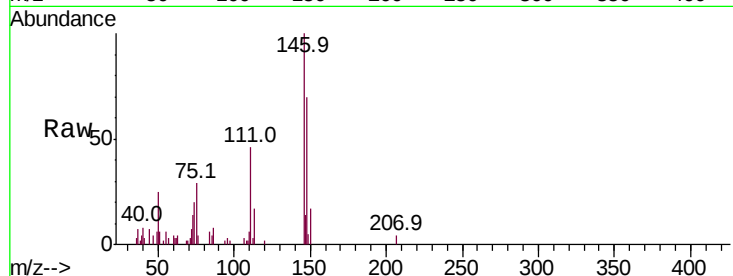




#91
 1,2-Dichlorobenzene
 Concen: 3.723 ug/l
 RT: 13.90 min Scan# 2037
 Delta R.T. -0.00 min
 Lab File: VD063838.D
 Acq: 26 Sep 2019 15:02

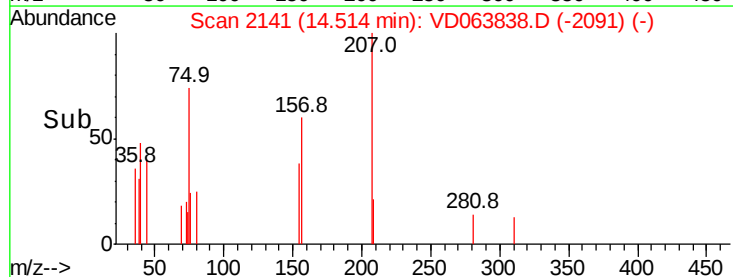
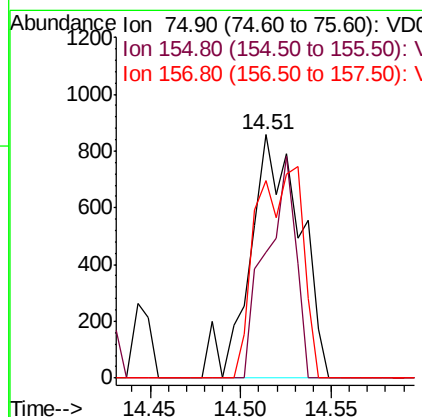
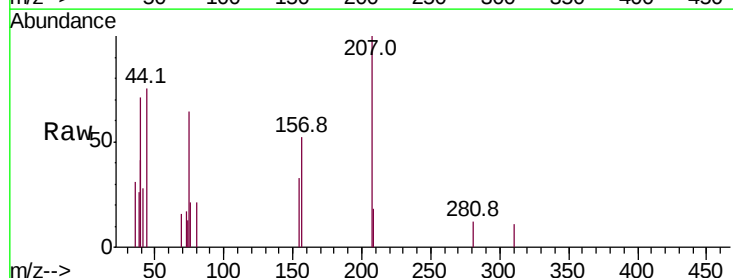
Instrument :
 MSVOA_D
 ClientSampleId :

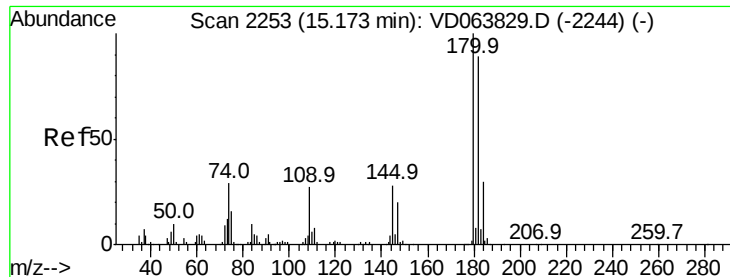
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.2	18.9	56.7
148	67.1	32.2	96.6



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.129 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. -0.01 min
 Lab File: VD063838.D
 Acq: 26 Sep 2019 15:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	53.3	48.0	144.0
157	79.7	63.2	189.8

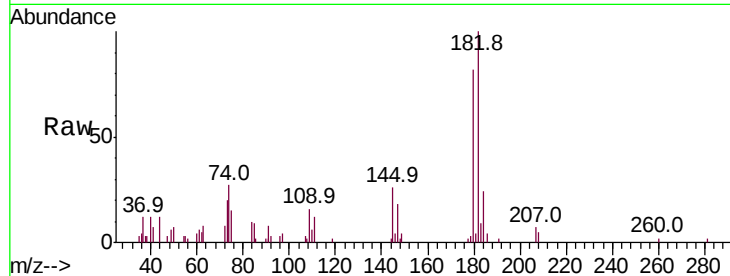




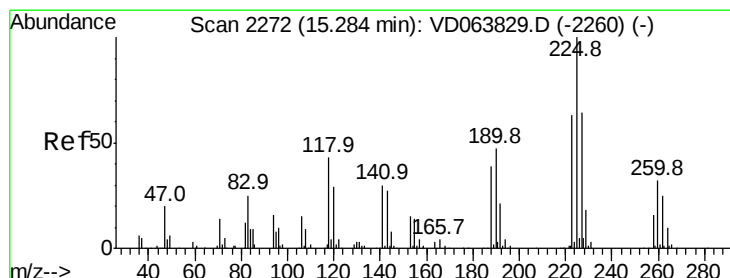
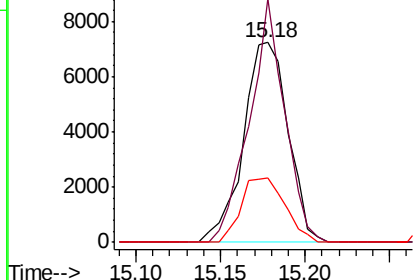
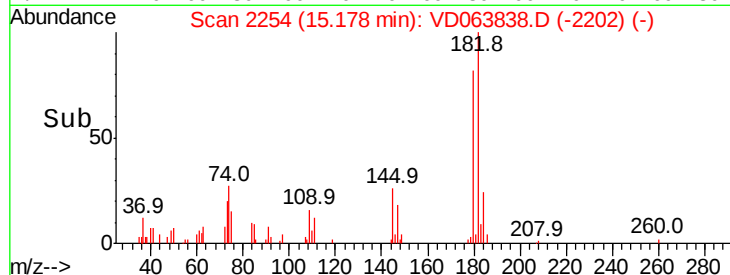
#93
 1,2,4-Trichlorobenzene
 Concen: 3.782 ug/l
 RT: 15.18 min Scan# 2254
 Delta R.T. 0.01 min
 Lab File: VD063838.D
 Acq: 26 Sep 2019 15:02

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:180 Resp: 13371
 Ion Ratio Lower Upper
 180 100
 182 96.0 46.5 139.5
 145 31.5 14.4 43.4

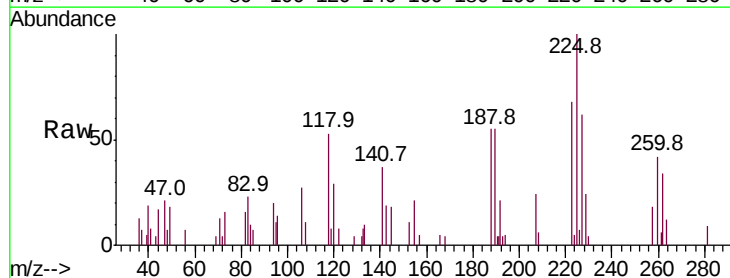


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

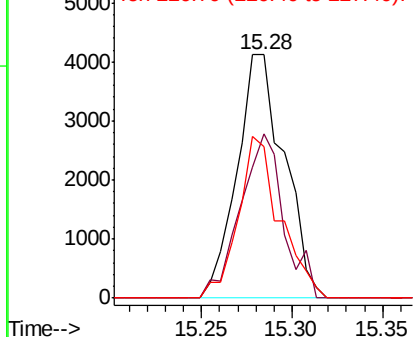
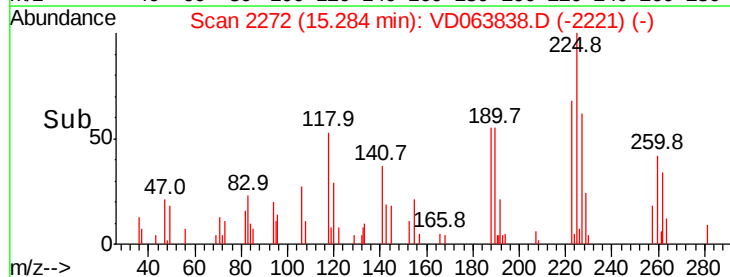


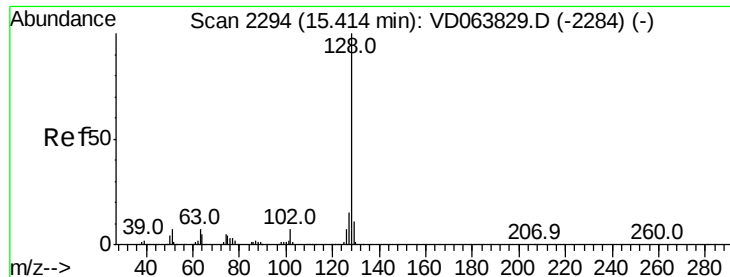
#94
 Hexachlorobutadiene
 Concen: 3.725 ug/l
 RT: 15.28 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VD063838.D
 Acq: 26 Sep 2019 15:02

Tgt Ion:225 Resp: 7462
 Ion Ratio Lower Upper
 225 100
 223 62.1 32.8 98.3
 227 58.6 32.8 98.3



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V

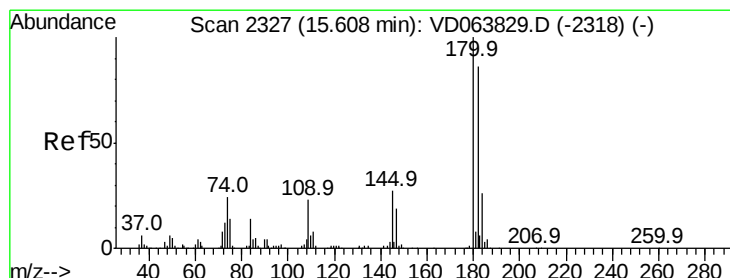
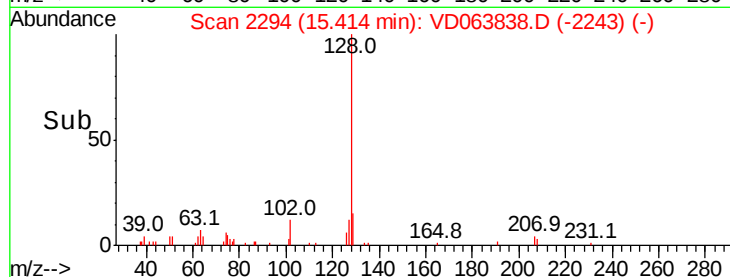
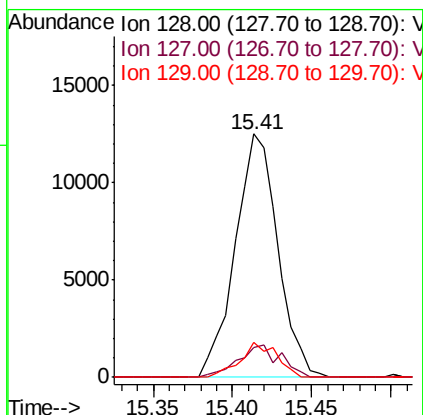
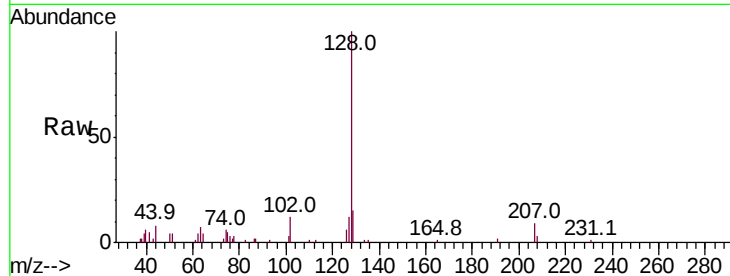




#95
Naphthalene
Concen: 3.670 ug/l
RT: 15.41 min Scan# 2294
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 23300
Ion Ratio Lower Upper
128 100
127 13.3 10.8 16.2
129 12.3 8.8 13.2



#96
1,2,3-Trichlorobenzene
Concen: 3.741 ug/l
RT: 15.61 min Scan# 2327
Delta R.T. -0.00 min
Lab File: VD063838.D
Acq: 26 Sep 2019 15:02

Tgt Ion:180 Resp: 11724
Ion Ratio Lower Upper
180 100
182 95.0 46.6 139.7
145 31.4 14.5 43.5

