

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100719\
 Data File : VD063898.D
 Acq On : 07 Oct 2019 14:06
 Operator : VA/SY
 Sample : K5111-03 4PPB MDL
 Misc : 5.00g/5.00mL/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 08 17:27:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D100219S.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 05 03:51:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	184905	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	295168	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	284594	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	143128	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	82111	45.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.22%	
35) Dibromofluoromethane	7.92	113	81622	45.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.50%	
50) Toluene-d8	10.34	98	341129	46.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.18%	
62) 4-Bromofluorobenzene	12.63	95	107934	42.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.84%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.99	85	5807	4.428	ug/l 92
3) Chloromethane	2.21	50	19665	1.284	ug/l 94
4) Vinyl Chloride	2.35	62	19215	4.534	ug/l # 84
5) Bromomethane	2.77	94	13507	4.957	ug/l 90
6) Chloroethane	2.93	64	12458	4.445	ug/l # 87
7) Trichlorofluoromethane	3.27	101	26230	4.681	ug/l # 82
8) Diethyl Ether	3.70	74	4242	4.716	ug/l 80
9) 1,1,2-Trichlorotrifluoroet	4.09	101	7668	4.944	ug/l # 39
10) Methyl Iodide	4.29	142	8878	4.154	ug/l 99
11) Tert butyl alcohol	5.24	59	2775	14.638	ug/l # 92
12) 1,1-Dichloroethene	4.06	96	7354	4.746	ug/l # 65
13) Acrolein	3.92	56	2917	18.143	ug/l # 71
14) Allyl chloride	4.70	41	5559	2.158	ug/l # 1
15) Acrylonitrile	5.43	53	9459	23.854	ug/l 97
16) Acetone	4.17	43	11275	24.057	ug/l 97
17) Carbon Disulfide	4.39	76	24567	4.361	ug/l 98
18) Methyl Acetate	4.73	43	5455	5.951	ug/l # 80
19) Methyl tert-butyl Ether	5.48	73	18372	4.578	ug/l # 64
20) Methylene Chloride	4.96	84	15493	4.724	ug/l # 87
21) trans-1,2-Dichloroethene	5.47	96	8952	4.640	ug/l 92
22) Diisopropyl ether	6.37	45	24382	4.634	ug/l # 90
23) Vinyl Acetate	6.31	43	68210	21.791	ug/l # 94
24) 1,1-Dichloroethane	6.27	63	13792	4.255	ug/l 98
25) 2-Butanone	7.23	43	13868	24.967	ug/l 92
26) 2,2-Dichloropropane	7.22	77	14674	5.005	ug/l 96
27) cis-1,2-Dichloroethene	7.21	96	10172	4.658	ug/l 91
28) Bromochloromethane	7.54	49	6133	6.656	ug/l 96
29) Tetrahydrofuran	7.57	42	6968	21.493	ug/l 95
30) Chloroform	7.71	83	15716	4.465	ug/l 91
31) Cyclohexane	7.98	56	18240	3.060	ug/l # 87
32) 1,1,1-Trichloroethane	7.90	97	12828	4.248	ug/l 94
36) 1,1-Dichloropropene	8.11	75	13209	4.894	ug/l 98
37) Ethyl Acetate	7.30	43	5394	1.083	ug/l # 94
38) Carbon Tetrachloride	8.10	117	11716	4.296	ug/l # 86

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	16257	4.899	ug/l #	81
40) Benzene	8.36	78	33831	4.374	ug/l	99
41) Methacrylonitrile	7.53	41	2158	3.449	ug/l #	26
42) 1,2-Dichloroethane	8.43	62	9606	4.294	ug/l	94
43) Isopropyl Acetate	8.46	43	10233	4.521	ug/l	97
44) Trichloroethene	9.11	130	9971	4.471	ug/l	92
45) 1,2-Dichloropropane	9.38	63	7749	4.093	ug/l #	82
46) Dibromomethane	9.48	93	4973	4.613	ug/l	98
47) Bromodichloromethane	9.67	83	11569	4.168	ug/l	95
48) Methyl methacrylate	9.46	41	4837	4.460	ug/l	94
49) 1,4-Dioxane	9.47	88	1454	98.805	ug/l #	82
51) 4-Methyl-2-Pentanone	10.24	43	25548	21.765	ug/l	100
52) Toluene	10.40	92	23788	4.481	ug/l	97
53) t-1,3-Dichloropropene	10.62	75	10644	3.930	ug/l	98
54) cis-1,3-Dichloropropene	10.10	75	14010	4.494	ug/l #	83
55) 1,1,2-Trichloroethane	10.80	97	6877	4.518	ug/l #	90
56) Ethyl methacrylate	10.67	69	8530	4.425	ug/l	97
57) 1,3-Dichloropropane	10.95	76	11640	4.469	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.94	63	15691	18.937	ug/l	99
59) 2-Hexanone	10.98	43	17426	20.523	ug/l	99
60) Dibromochloromethane	11.14	129	8312	4.194	ug/l	94
61) 1,2-Dibromoethane	11.24	107	6374	4.319	ug/l	95
64) Tetrachloroethene	10.87	164	9027	4.646	ug/l	91
65) Chlorobenzene	11.67	112	24819	4.342	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.74	131	8524	4.047	ug/l	93
67) Ethyl Benzene	11.75	91	42772	4.150	ug/l	90
68) m/p-Xylenes	11.86	106	32766	8.237	ug/l	97
69) o-Xylene	12.18	106	17153	4.503	ug/l	88
70) Styrene	12.20	104	25677	3.982	ug/l	96
71) Bromoform	12.37	173	4617	4.085	ug/l #	93
73) Isopropylbenzene	12.48	105	42418	4.409	ug/l	97
74) N-amyl acetate	12.29	43	8921	4.306	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.73	83	7274	4.344	ug/l	93
76) 1,2,3-Trichloropropane	12.78	75	9750	10.171	ug/l #	100
77) Bromobenzene	12.76	156	10055	4.194	ug/l	87
78) n-propylbenzene	12.82	91	50402	4.463	ug/l	99
79) 2-Chlorotoluene	12.90	91	27643	4.439	ug/l	98
80) 1,3,5-Trimethylbenzene	12.96	105	34194	4.260	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	2097	3.871	ug/l #	93
82) 4-Chlorotoluene	13.01	91	28280	4.281	ug/l	98
83) tert-Butylbenzene	13.23	119	28038	3.925	ug/l	88
84) 1,2,4-Trimethylbenzene	13.27	105	35409	4.279	ug/l	95
85) sec-Butylbenzene	13.40	105	42742	4.430	ug/l	96
86) p-Isopropyltoluene	13.51	119	38441	4.211	ug/l	96
87) 1,3-Dichlorobenzene	13.51	146	19922	4.206	ug/l	97
88) 1,4-Dichlorobenzene	13.60	146	21732	4.651	ug/l	96
89) n-Butylbenzene	13.84	91	38213	4.497	ug/l	96
90) Hexachloroethane	14.11	117	7439	4.531	ug/l	96
91) 1,2-Dichlorobenzene	13.88	146	17078	4.184	ug/l	96
93) 1,2,4-Trichlorobenzene	15.16	180	13831	4.391	ug/l	95

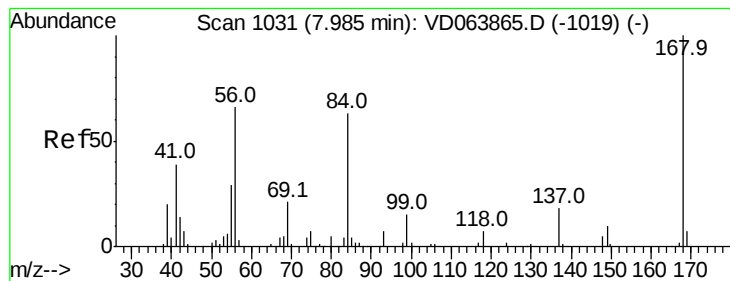
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QLast Update : Sat Oct 05 03:51:17 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.27	225	7212	4.149	ug/l	92
95) Naphthalene	15.40	128	22570	4.263	ug/l	96
96) 1,2,3-Trichlorobenzene	15.60	180	11270	4.147	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

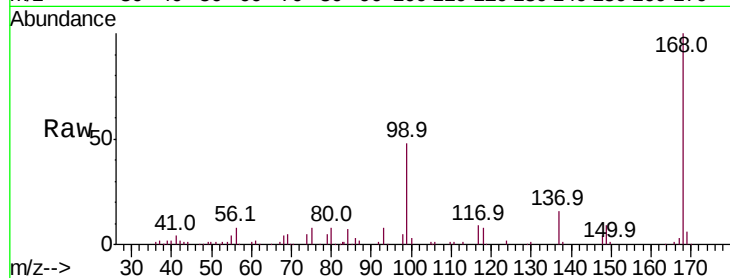
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:168 Resp: 184905

Ion Ratio Lower Upper

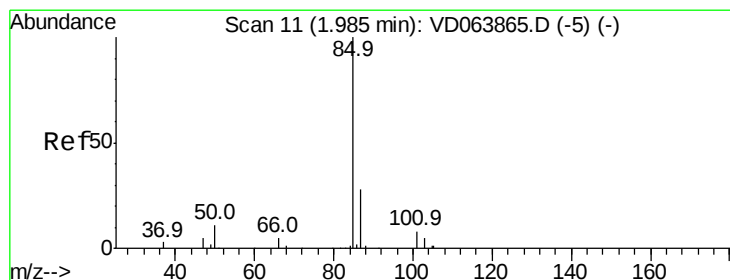
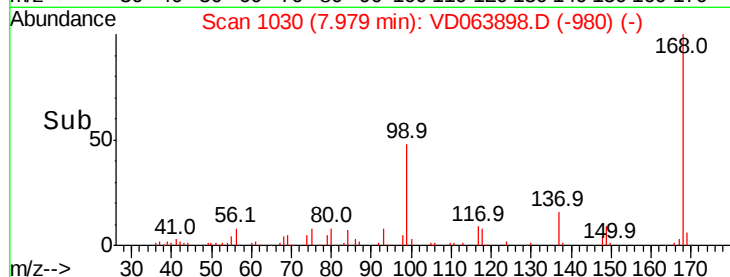
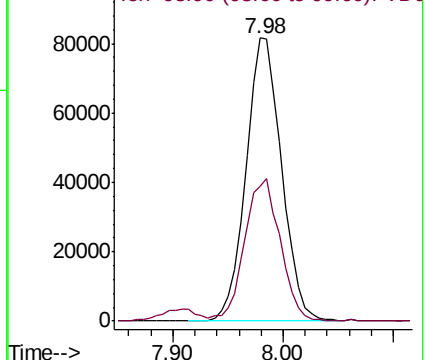
168 100

99 47.6 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 4.428 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD063898.D

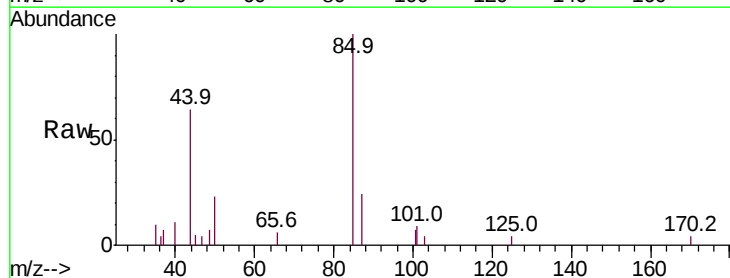
Acq: 07 Oct 2019 14:06

Tgt Ion: 85 Resp: 5807

Ion Ratio Lower Upper

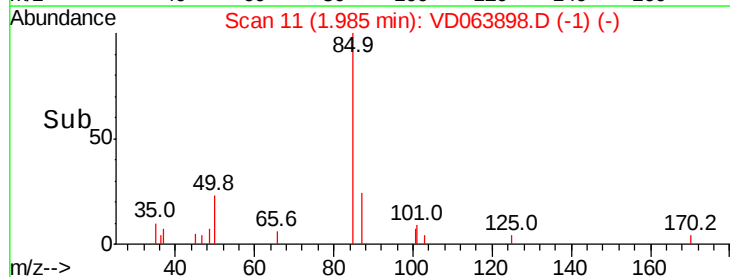
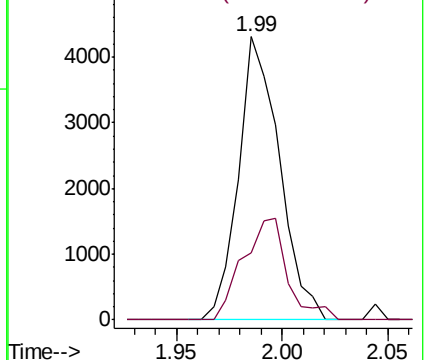
85 100

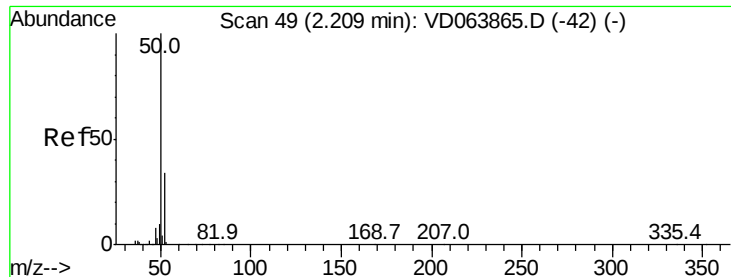
87 23.6 14.0 42.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

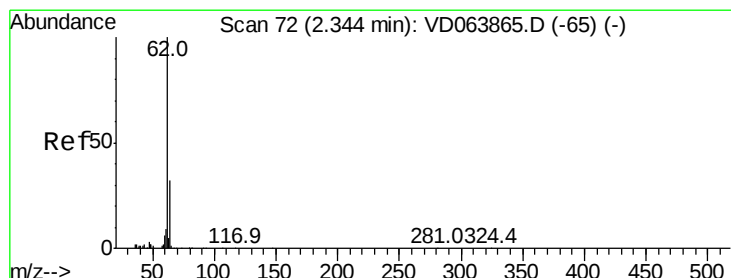
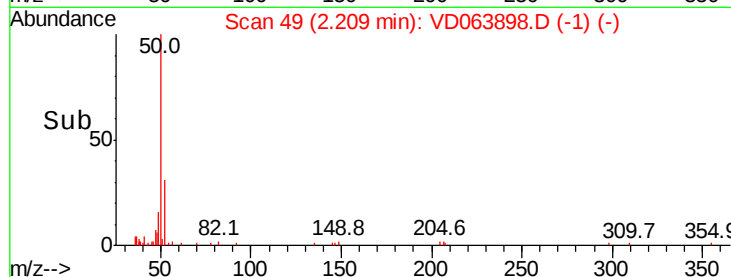
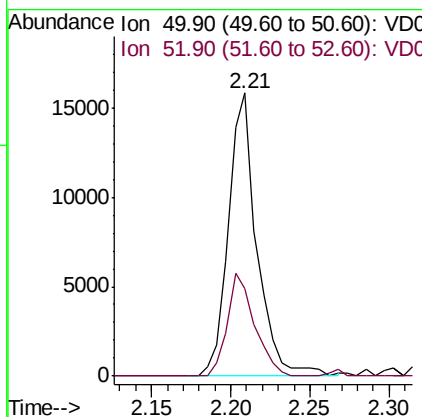
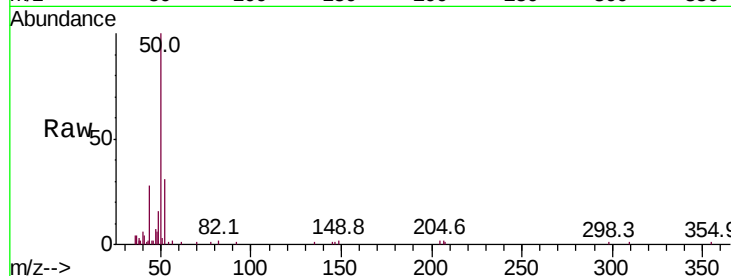




#3
Chloromethane
Concen: 1.284 ug/l
RT: 2.21 min Scan# 49
Delta R.T. 0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

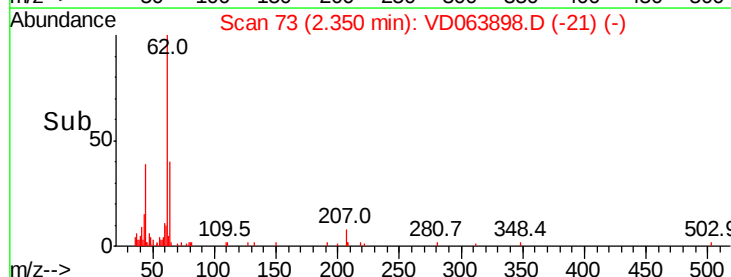
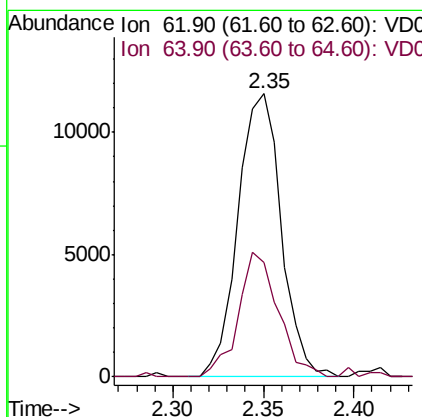
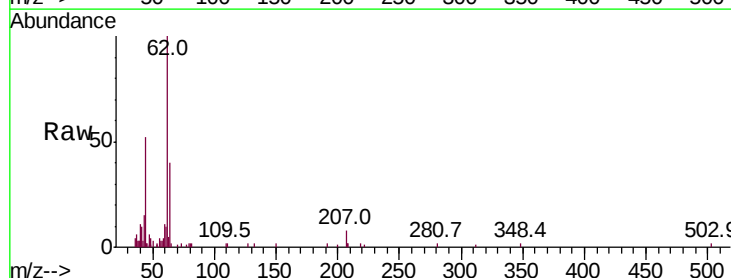
Instrument :
MSVOA_D
ClientSampleId :

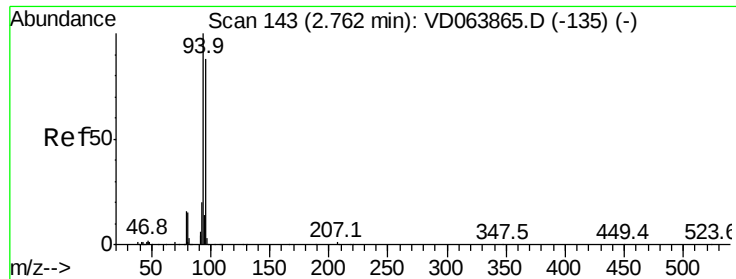
Tot Ion: 50 Resp: 19665
Ion Ratio Lower Upper
50 100
52 30.9 27.5 41.3



#4
Vinyl Chloride
Concen: 4.534 ug/l
RT: 2.35 min Scan# 73
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 62 Resp: 19215
Ion Ratio Lower Upper
62 100
64 40.3 25.4 38.0#





#5

Bromomethane

Concen: 4.957 ug/l

RT: 2.77 min Scan# 144

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

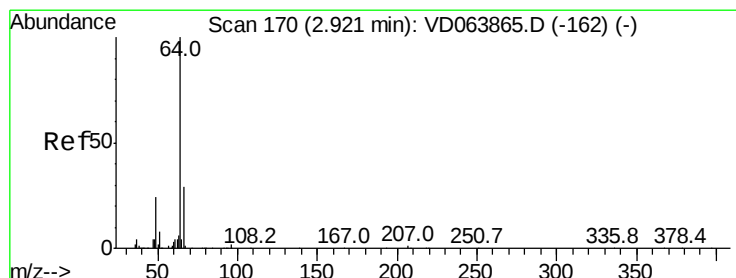
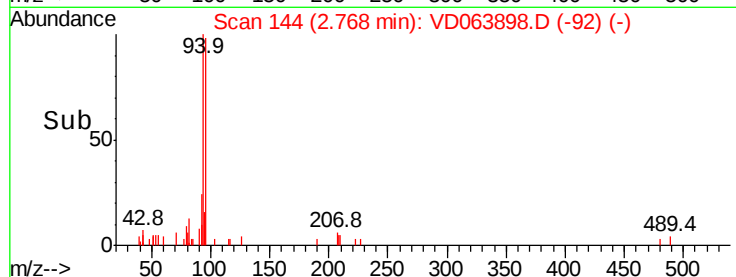
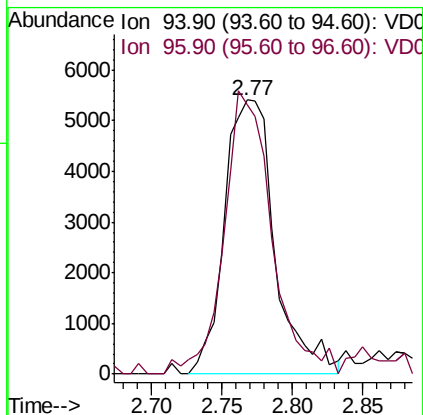
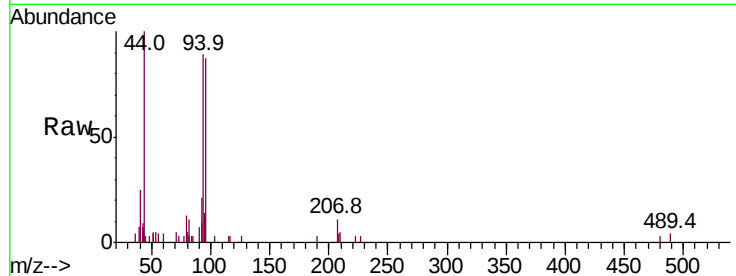
ClientSampled :

Tot Ion: 94 Resp: 13507

Ion Ratio Lower Upper

94 100

96 98.0 70.8 106.2



#6

Chloroethane

Concen: 4.445 ug/l

RT: 2.93 min Scan# 171

Delta R.T. 0.01 min

Lab File: VD063898.D

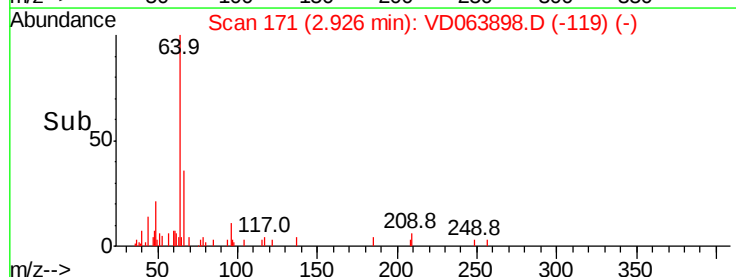
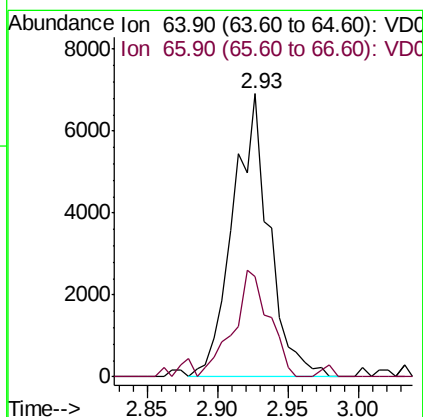
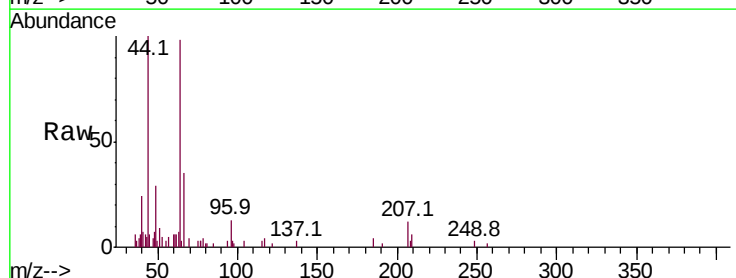
Acq: 07 Oct 2019 14:06

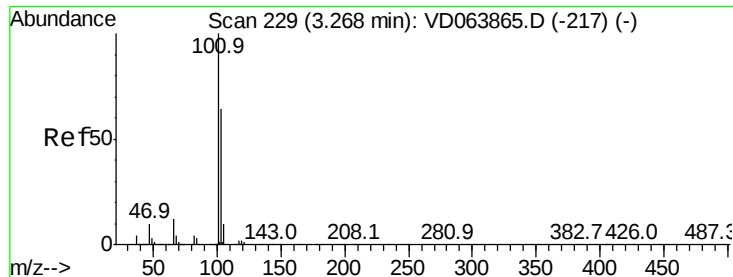
Tgt Ion: 64 Resp: 12458

Ion Ratio Lower Upper

64 100

66 35.4 23.0 34.4#



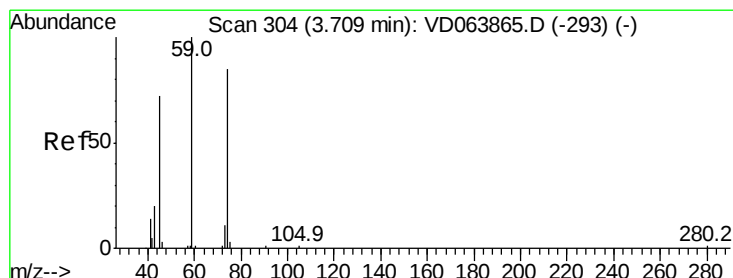
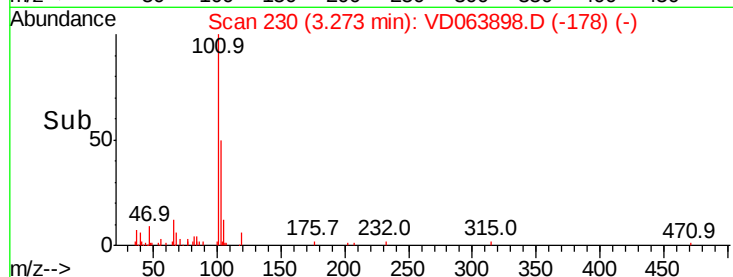
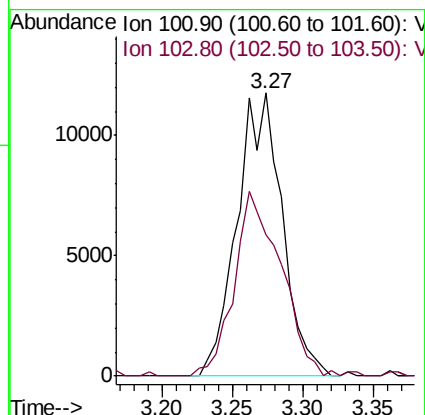
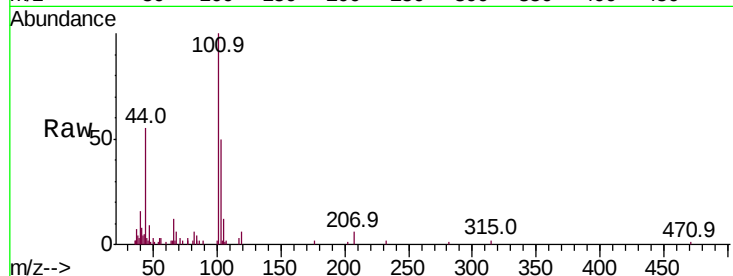


#7

Trichlorofluoromethane
 Concen: 4.681 ug/l
 RT: 3.27 min Scan# 230
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Instrument :
 MSVOA_D
 ClientSampleId :

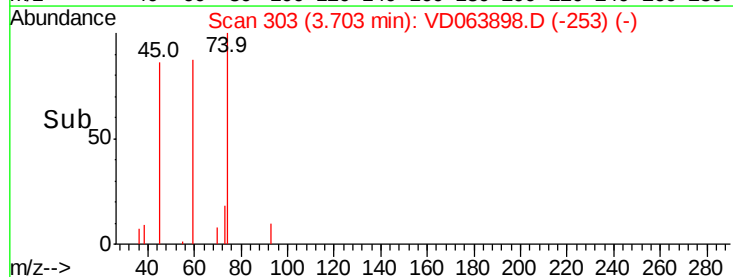
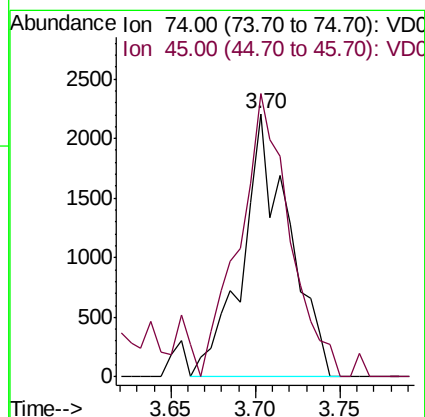
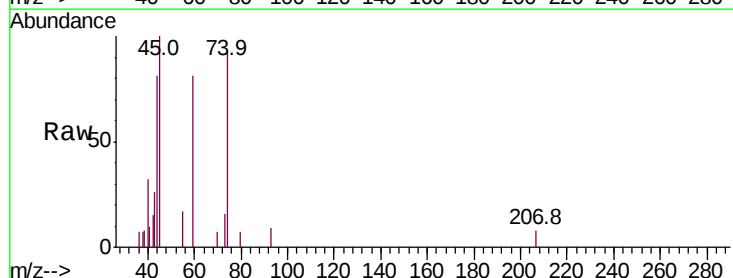
Tot Ion:101 Resp: 26230
 Ion Ratio Lower Upper
 101 100
 103 50.0 51.1 76.7#

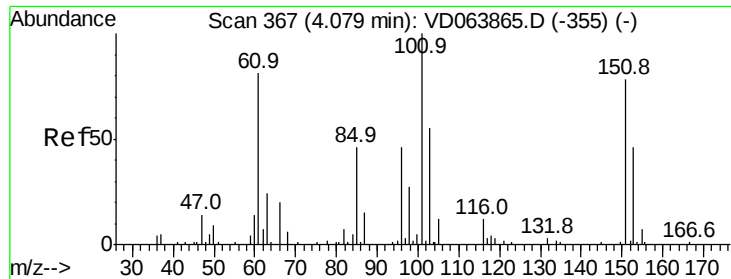


#8

Diethyl Ether
 Concen: 4.716 ug/l
 RT: 3.70 min Scan# 303
 Delta R.T. -0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion: 74 Resp: 4242
 Ion Ratio Lower Upper
 74 100
 45 116.0 48.1 144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.944 ug/l

RT: 4.09 min Scan# 369

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

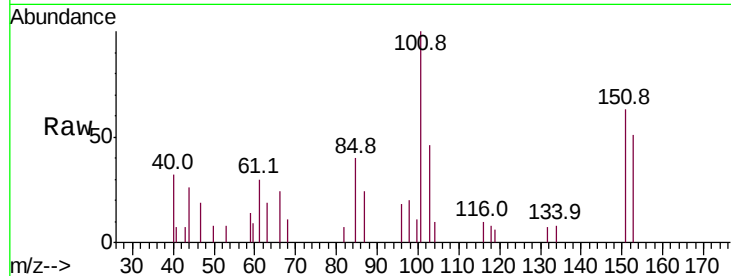
Tot Ion:101 Resp: 7668

Ion Ratio Lower Upper

101 100

85 51.4 37.5 56.3

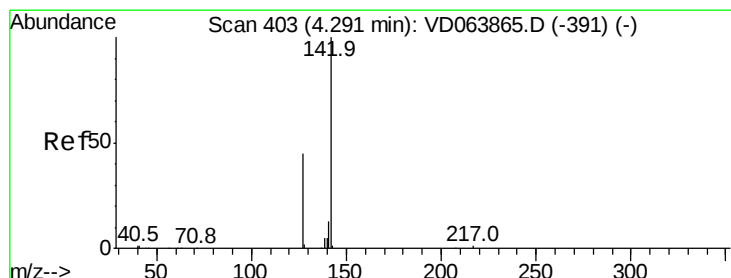
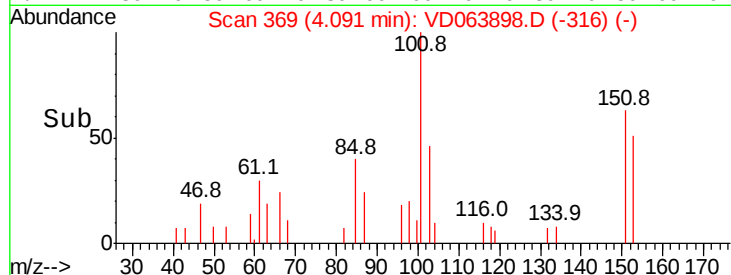
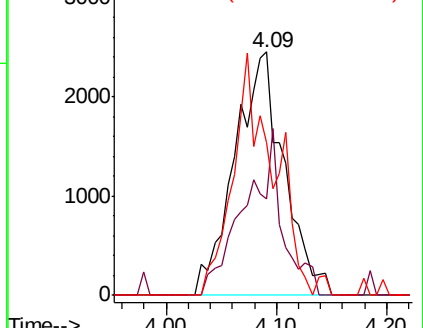
151 0.0 65.5 98.3#



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: 4.154 ug/l

RT: 4.29 min Scan# 402

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

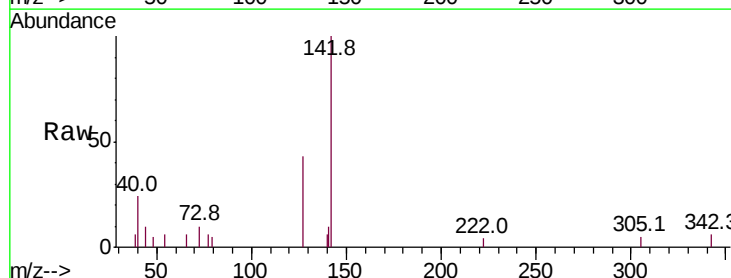
Tgt Ion:142 Resp: 8878

Ion Ratio Lower Upper

142 100

127 44.6 35.3 52.9

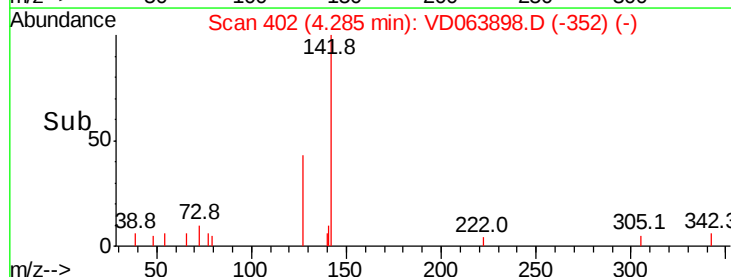
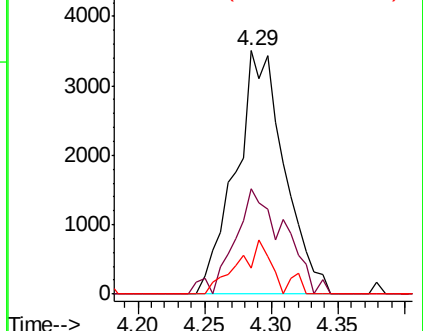
141 14.6 12.2 18.2

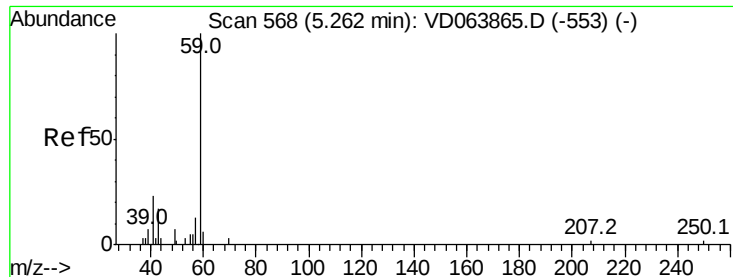


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



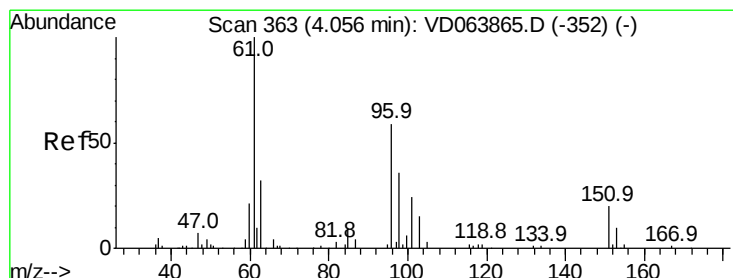
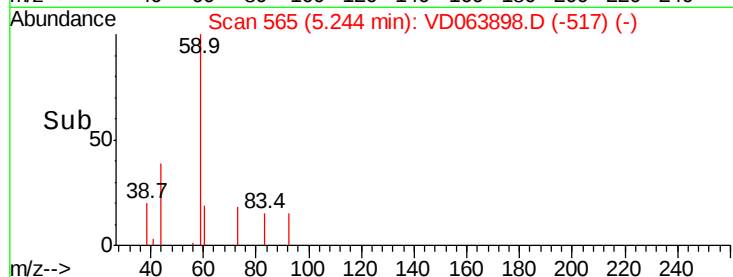
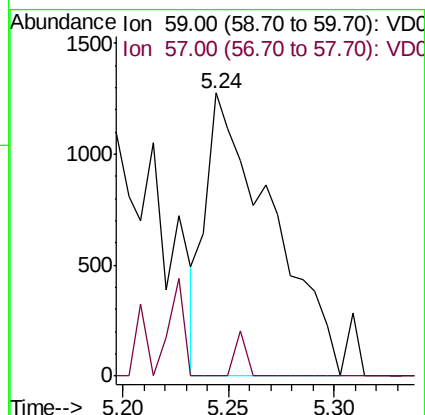
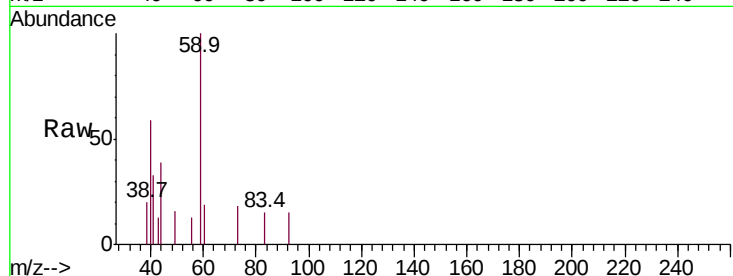


#11

Tert butyl alcohol
 Concen: 14.638 ug/l
 RT: 5.24 min Scan# 565
 Delta R.T. -0.02 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Instrument :
 MSVOA_D
 ClientSampled :

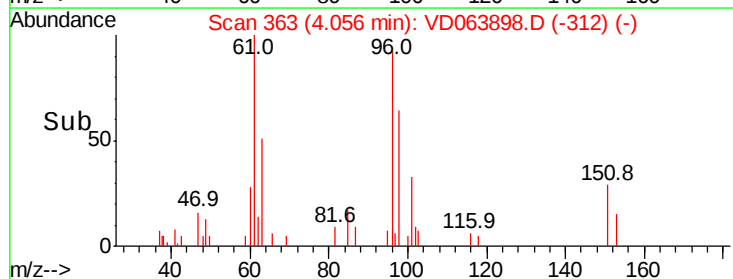
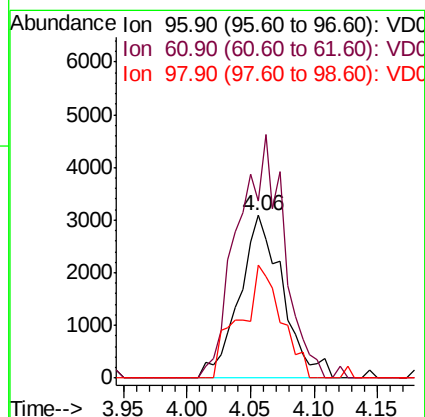
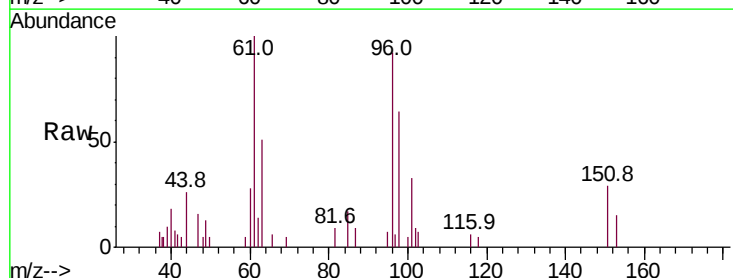
Tot Ion: 59 Resp: 2775
 Ion Ratio Lower Upper
 59 100
 57 7.8 8.8 13.2#

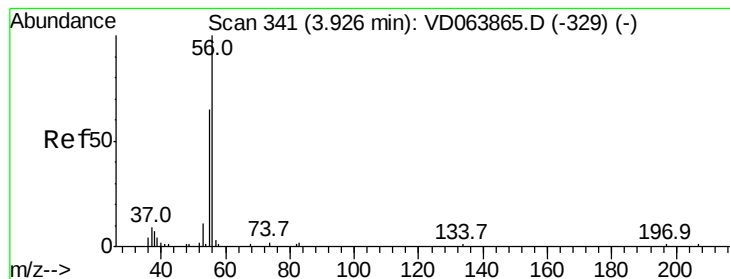


#12

1,1-Dichloroethene
 Concen: 4.746 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion: 96 Resp: 7354
 Ion Ratio Lower Upper
 96 100
 61 108.5 135.6 203.4#
 98 69.1 49.2 73.8





#13

Acrolein

Concen: 18.143 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

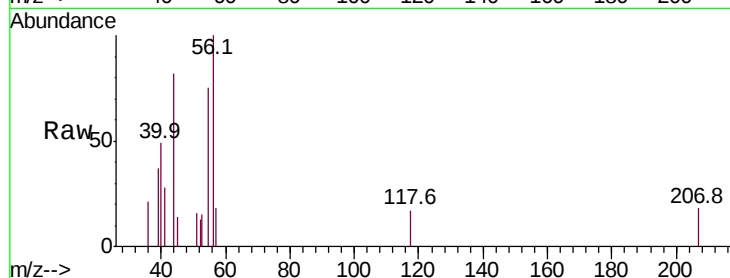
ClientSampleId :

Tot Ion: 56 Resp: 2917

Ion Ratio Lower Upper

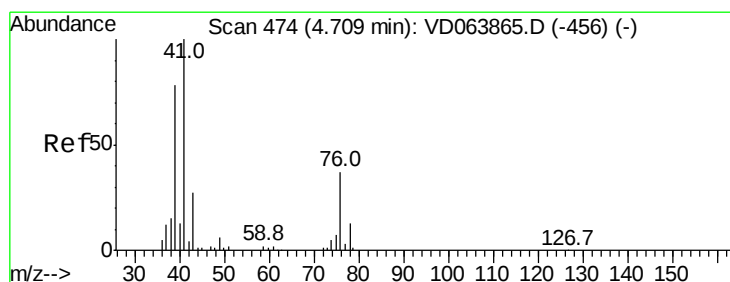
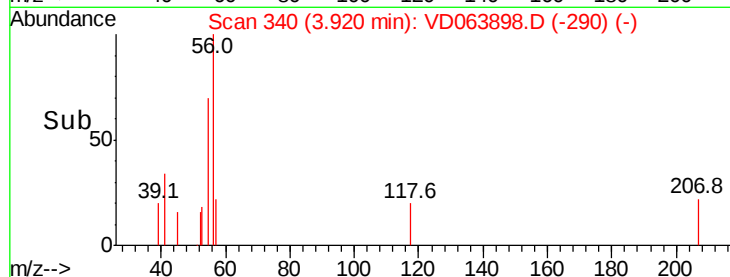
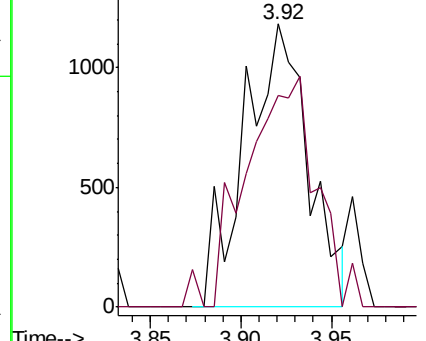
56 100

55 89.3 53.0 79.6#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 2.158 ug/l

RT: 4.70 min Scan# 472

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

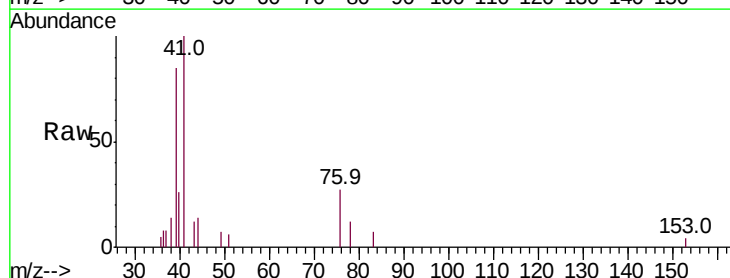
Tgt Ion: 41 Resp: 5559

Ion Ratio Lower Upper

41 100

39 189.1 61.8 92.6#

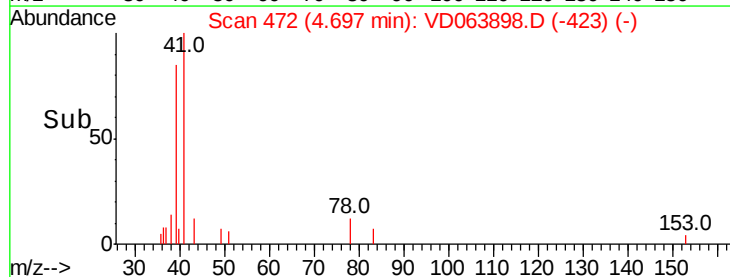
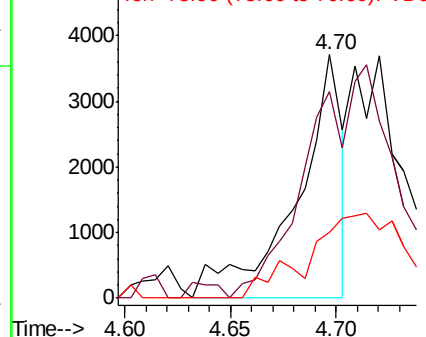
76 73.9 31.3 46.9#

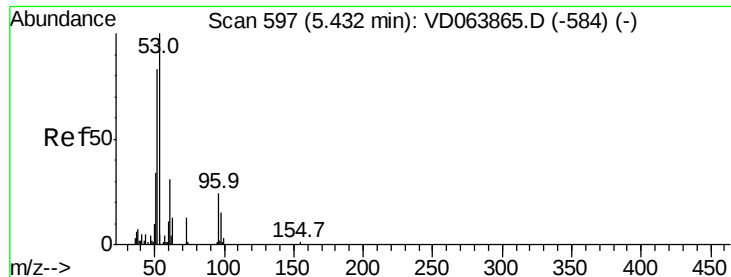


Abundance Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC

Ion 75.90 (75.60 to 76.60): VDC





#15

Acrylonitrile

Concen: 23.854 ug/l

RT: 5.43 min Scan# 597

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

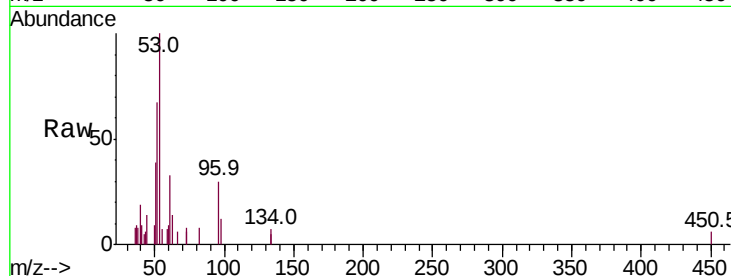
Tot Ion: 53 Resp: 9459

Ion Ratio Lower Upper

53 100

52 82.5 67.3 100.9

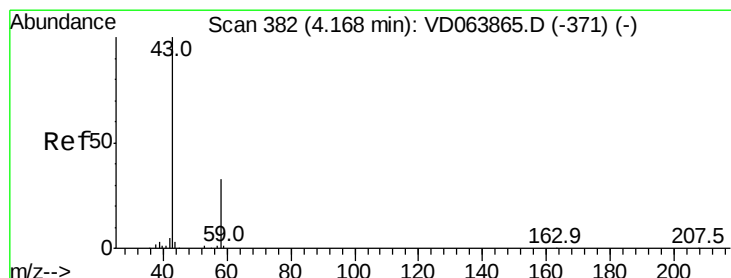
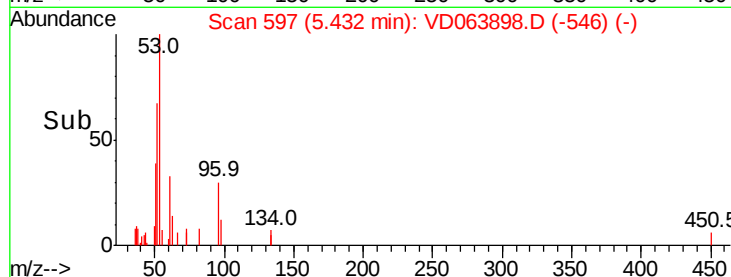
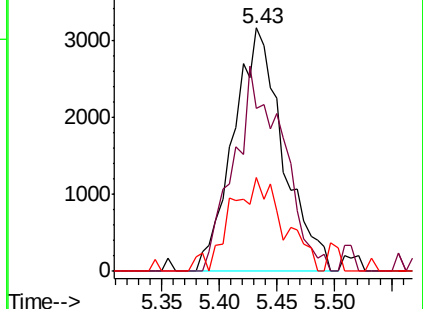
51 41.2 30.5 45.7



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: 24.057 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD063898.D

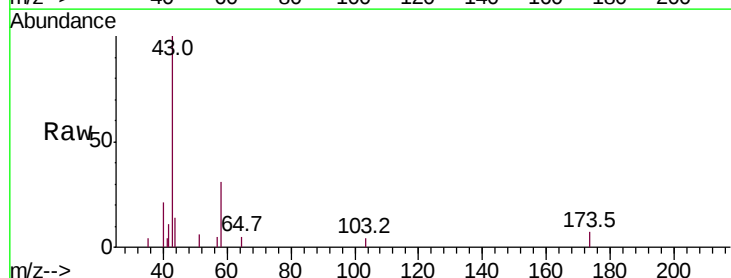
Acq: 07 Oct 2019 14:06

Tgt Ion: 43 Resp: 11275

Ion Ratio Lower Upper

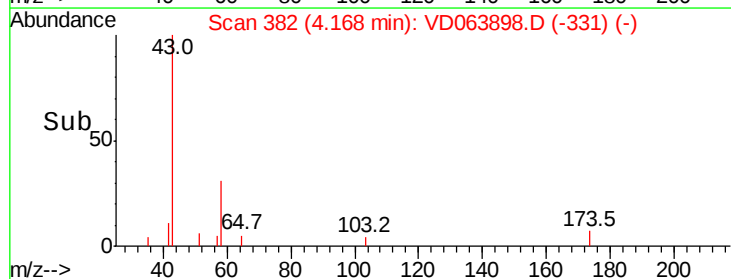
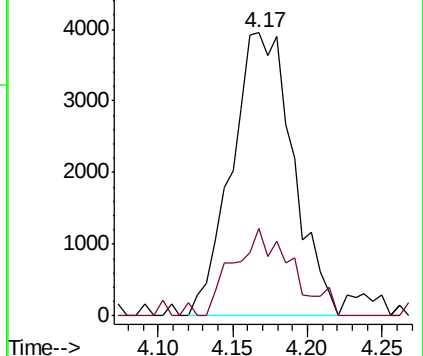
43 100

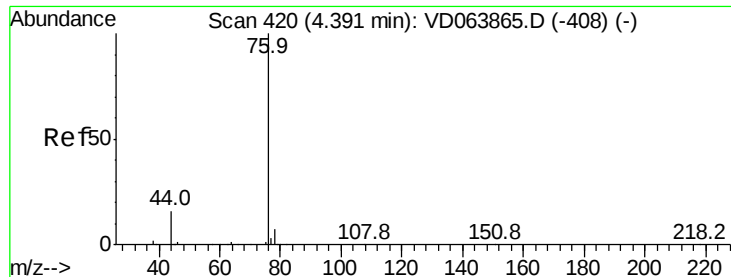
58 31.0 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

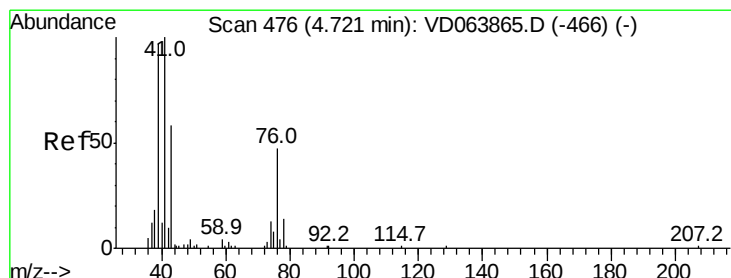
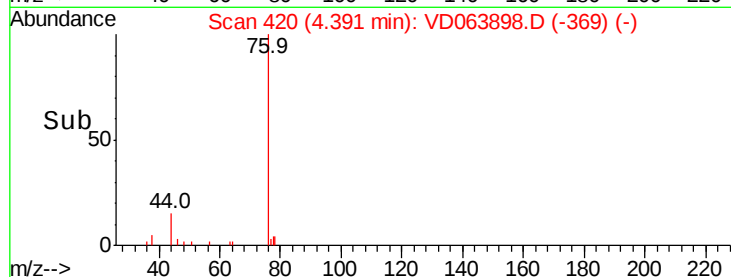
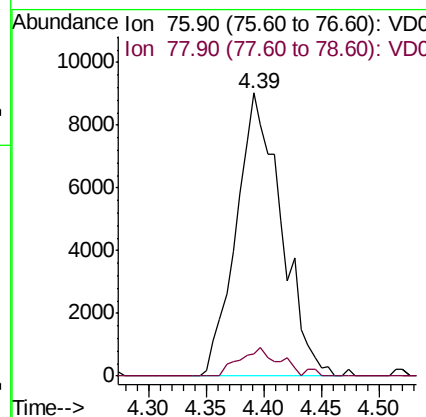
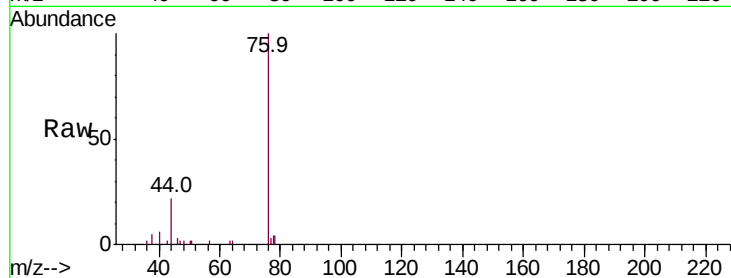




#17
Carbon Disulfide
Concen: 4.361 ug/l
RT: 4.39 min Scan# 420
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

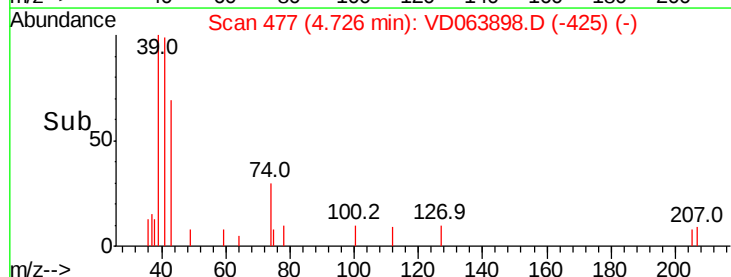
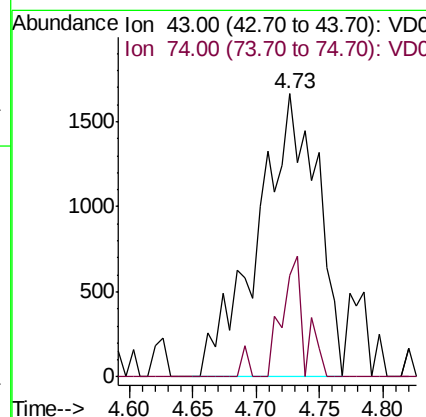
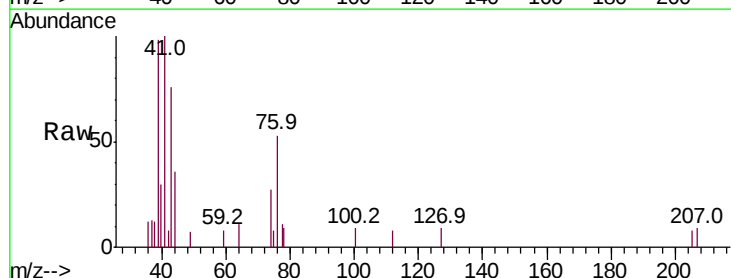
Instrument :
MSVOA_D
ClientSampleId :

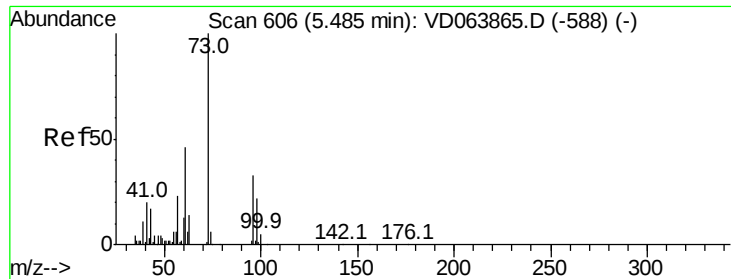
Tot Ion: 76 Resp: 24567
Ion Ratio Lower Upper
76 100
78 7.9 5.8 8.8



#18
Methyl Acetate
Concen: 5.951 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 43 Resp: 5455
Ion Ratio Lower Upper
43 100
74 16.0 20.8 31.2#

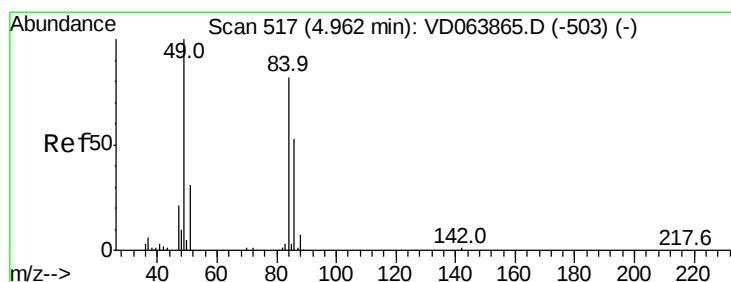
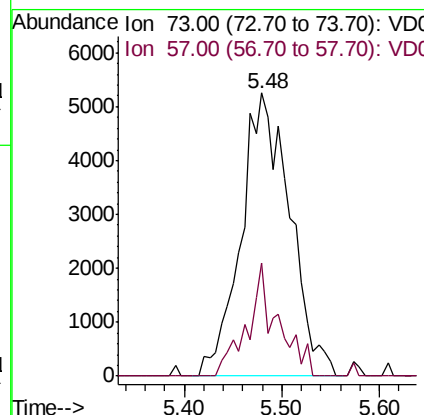
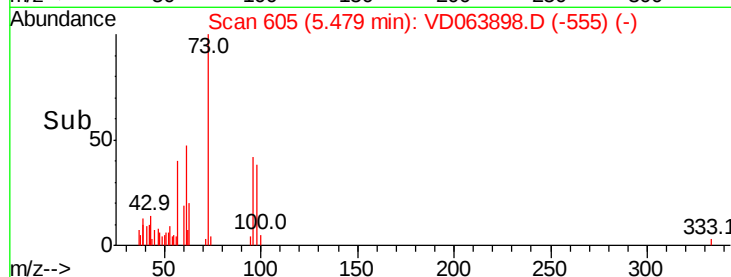
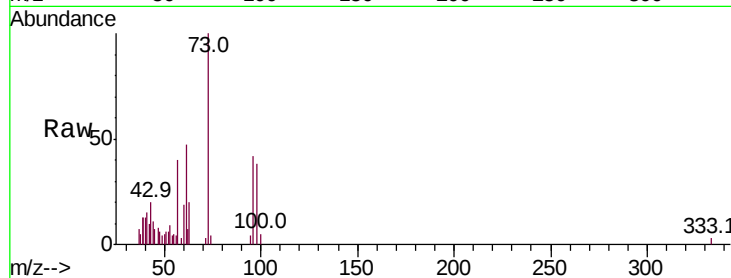




#19
Methvl tert-butvl Ether
Concen: 4.578 ug/l
RT: 5.48 min Scan# 605
Delta R.T. -0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

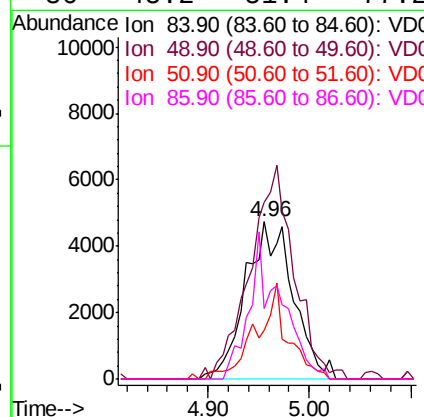
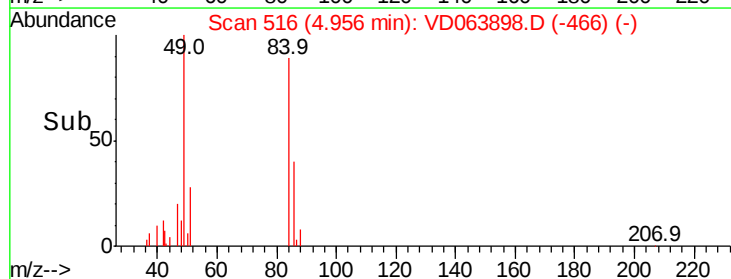
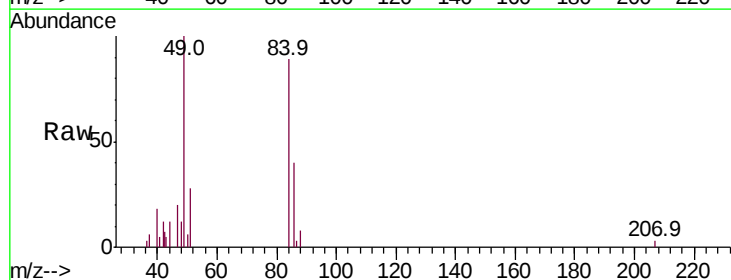
Instrument :
MSVOA_D
ClientSampleId :

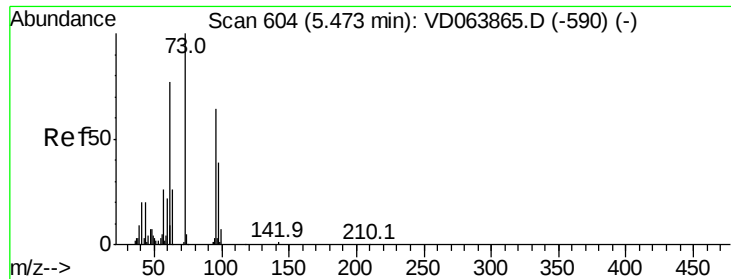
Tot Ion: 73 Resp: 18372
Ion Ratio Lower Upper
73 100
57 40.1 18.1 27.1#



#20
Methylene Chloride
Concen: 4.724 ug/l
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 84 Resp: 15493
Ion Ratio Lower Upper
84 100
49 112.4 97.3 145.9
51 31.1 30.1 45.1
86 45.2 51.4 77.2#





#21

trans-1,2-Dichloroethene

Concen: 4.640 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

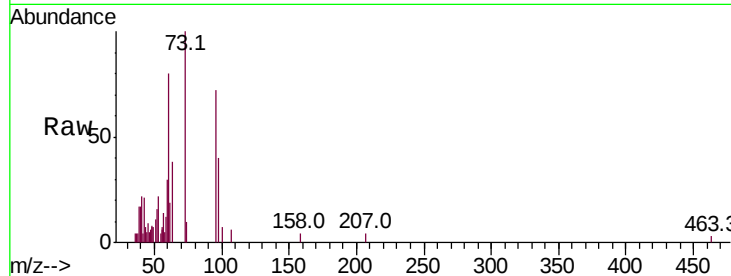
Tot Ion: 96 Resp: 8952

Ion Ratio Lower Upper

96 100

61 110.9 96.6 145.0

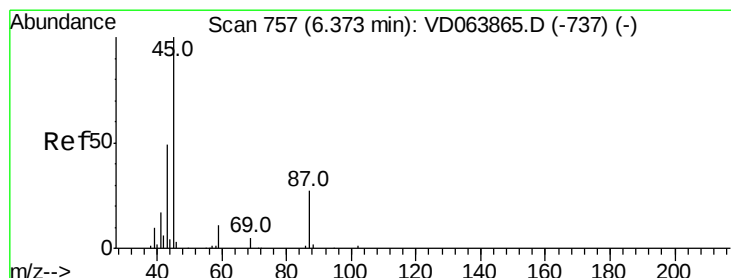
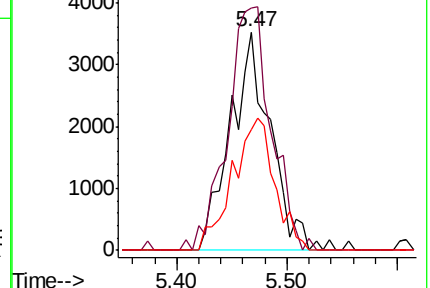
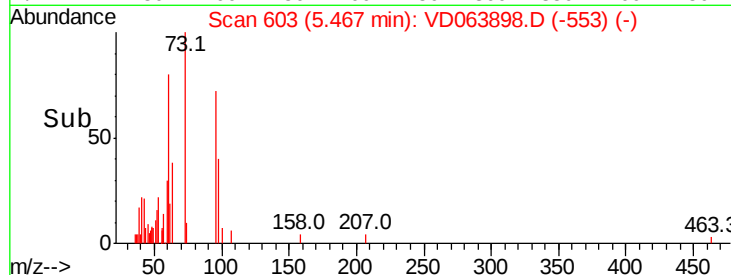
98 55.1 48.7 73.1



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: 4.634 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion: 45 Resp: 24382

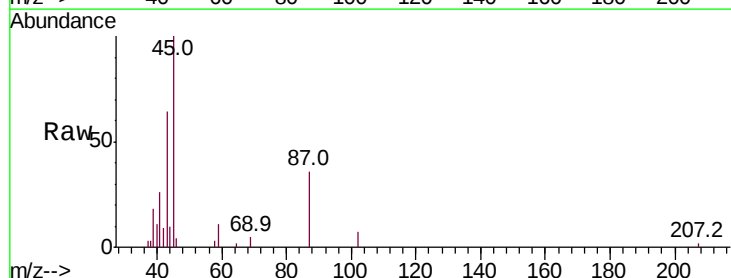
Ion Ratio Lower Upper

45 100

43 57.9 41.2 61.8

87 35.6 22.2 33.4#

59 11.5 9.2 13.8

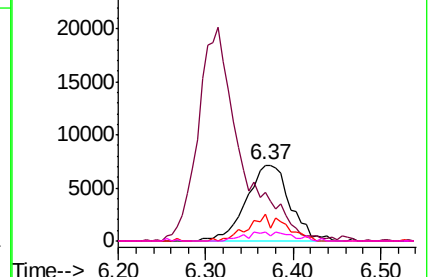
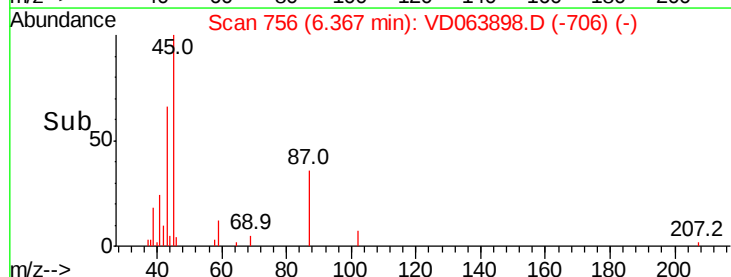


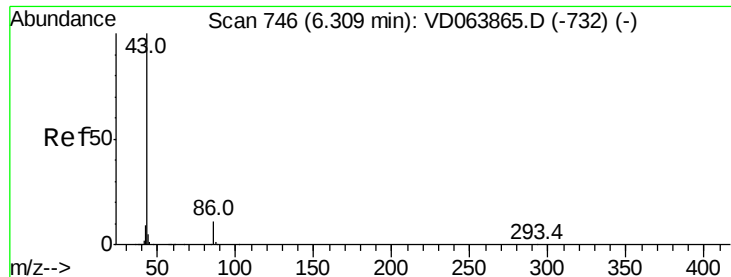
Abundance Ion 45.00 (44.70 to 45.70): VDC

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: 21.791 ug/l

RT: 6.31 min Scan# 747

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

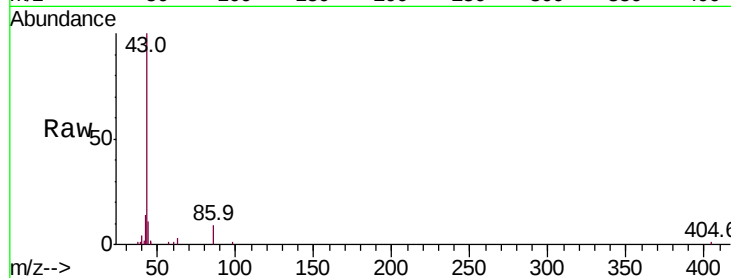
ClientSampleId :

Tot Ion: 43 Resp: 68210

Ion Ratio Lower Upper

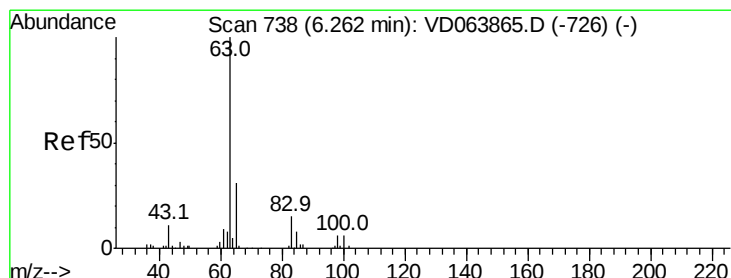
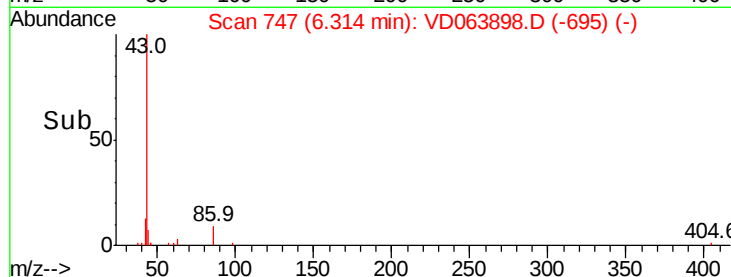
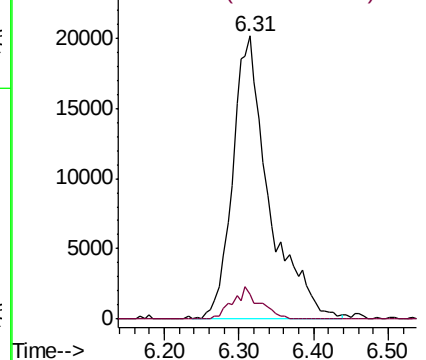
43 100

86 8.7 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: 4.255 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

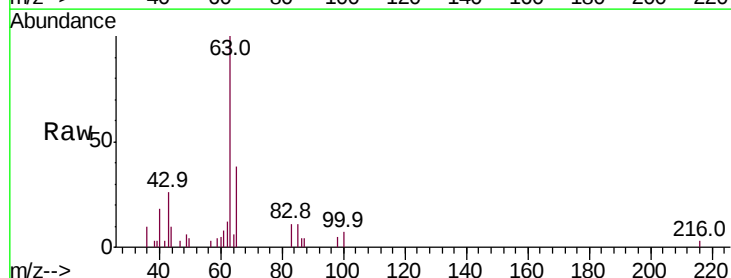
Tgt Ion: 63 Resp: 13792

Ion Ratio Lower Upper

63 100

98 5.5 3.1 9.4

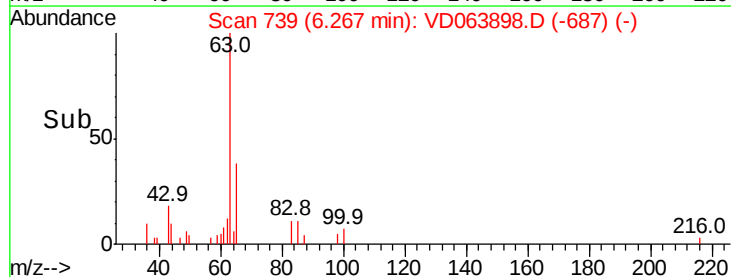
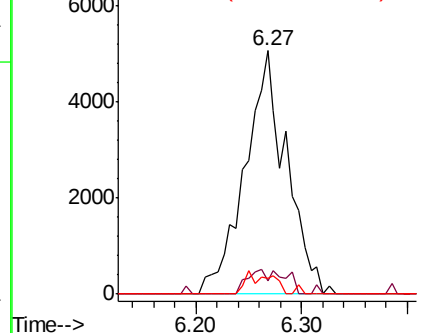
100 6.7 3.0 9.2

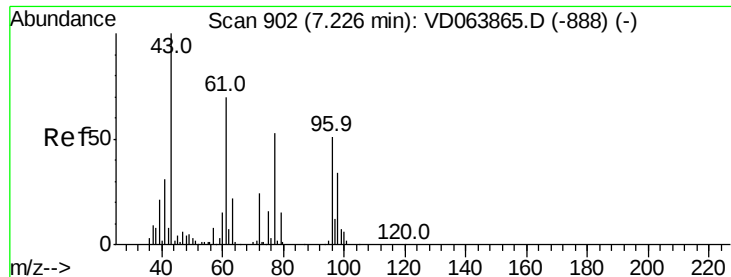


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 24.967 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

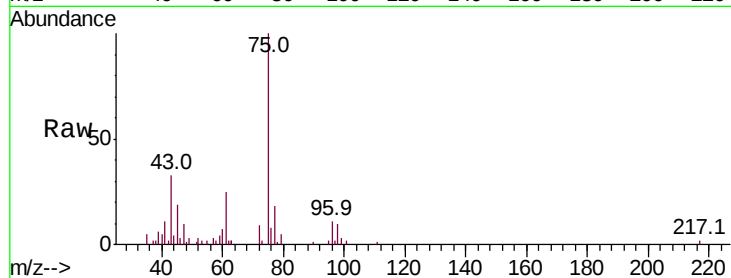
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 13868

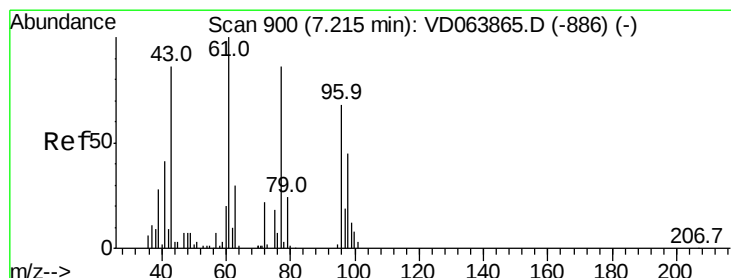
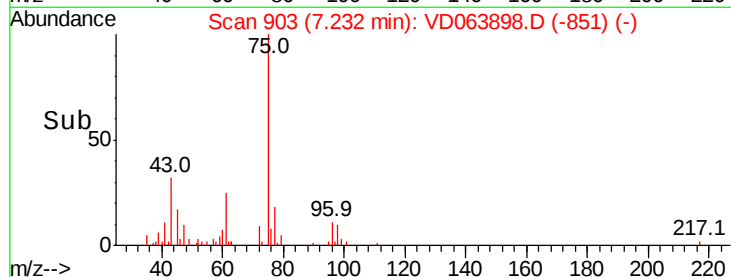
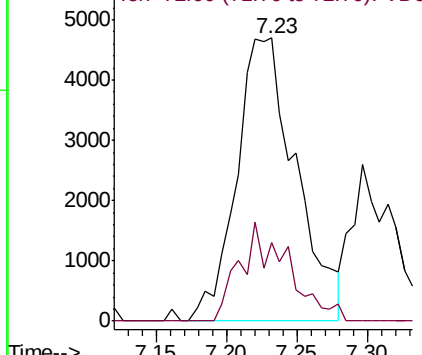
Ion Ratio Lower Upper

43 100

72 28.0 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 5.005 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD063898.D

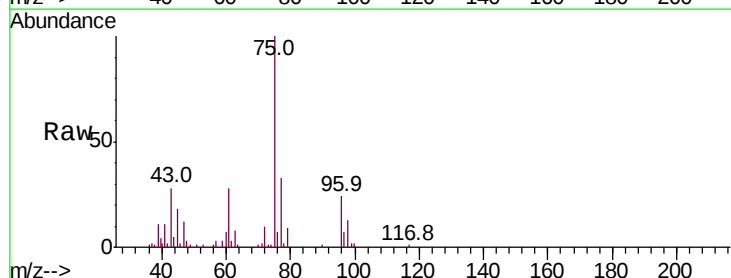
Acq: 07 Oct 2019 14:06

Tgt Ion: 77 Resp: 14674

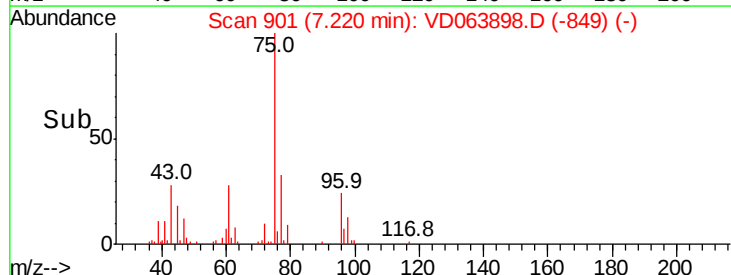
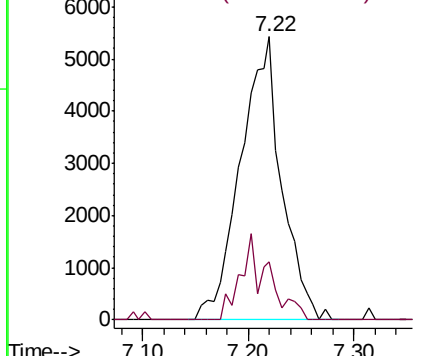
Ion Ratio Lower Upper

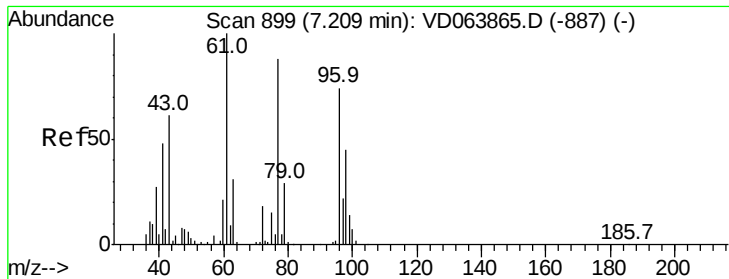
77 100

97 20.6 11.4 34.1



Abundance Ion 76.90 (76.60 to 77.60): VDC
Ion 96.90 (96.60 to 97.60): VDC



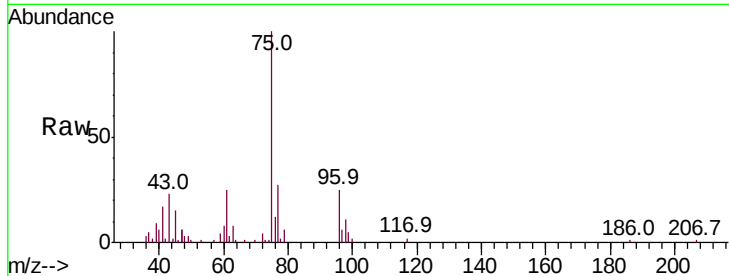


#27

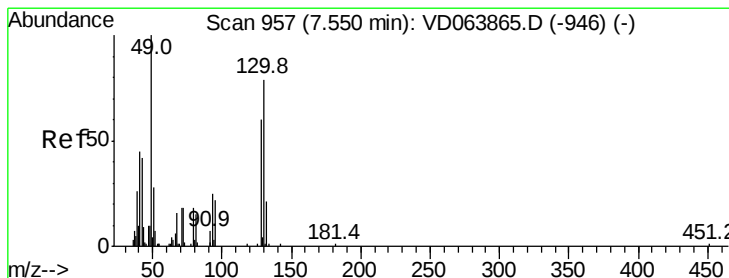
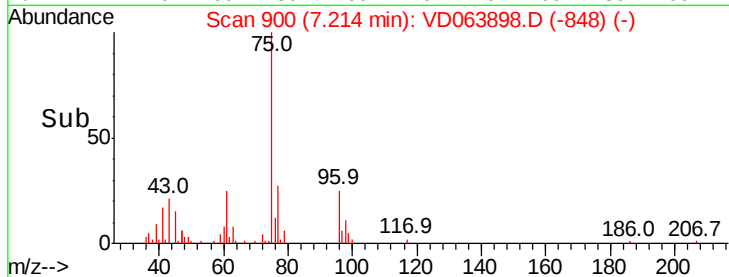
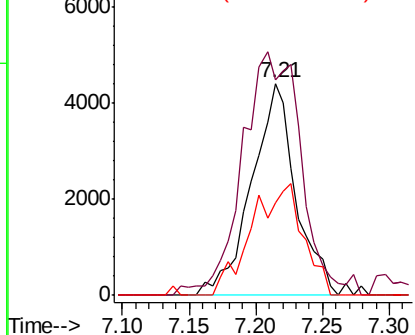
cis-1,2-Dichloroethene
 Concen: 4.658 ug/l
 RT: 7.21 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	152.7	0.0	280.0
98	61.6	0.0	130.4



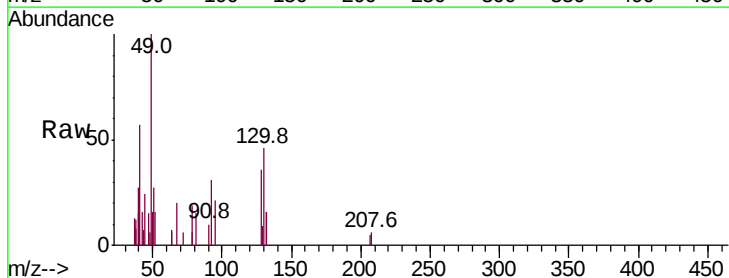
Abundance Ion 95.90 (95.60 to 96.60): VDC
 Ion 60.90 (60.60 to 61.60): VDC
 Ion 97.90 (97.60 to 98.60): VDC



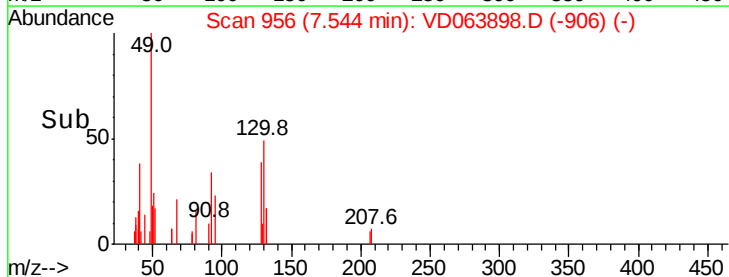
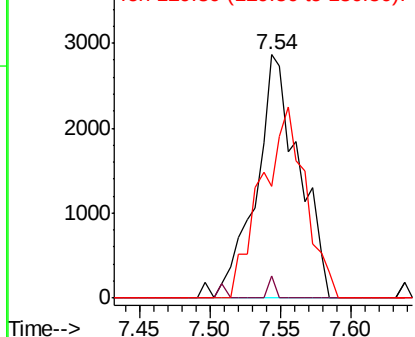
#28

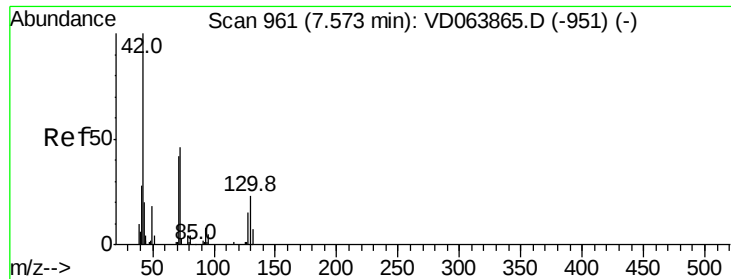
Bromochloromethane
 Concen: 6.656 ug/l
 RT: 7.54 min Scan# 956
 Delta R.T. -0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.5	0.0	5.6
130	79.9	66.8	100.2



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

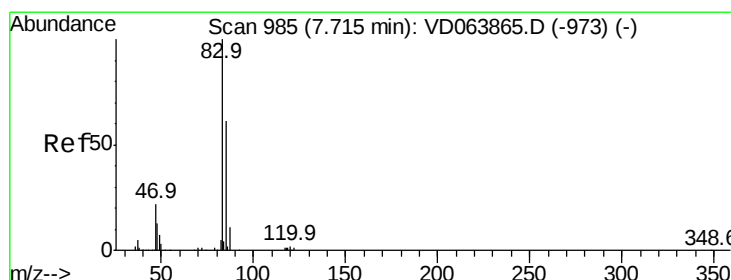
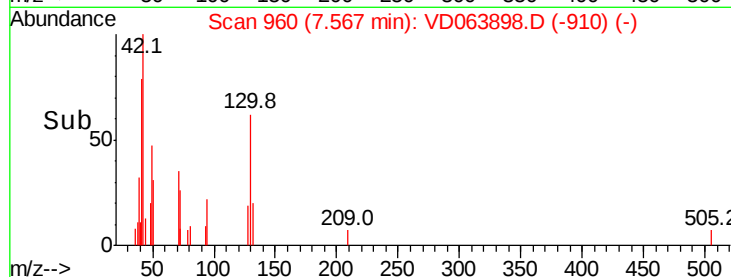
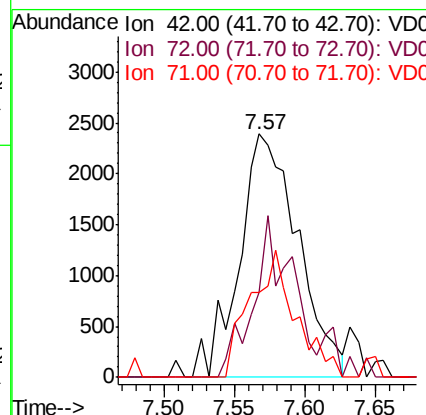
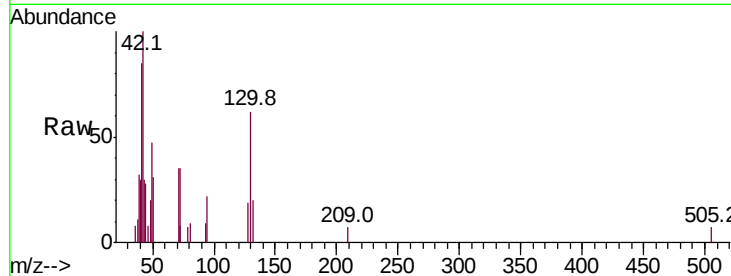




#29
Tetrahydrofuran
Concen: 21.493 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

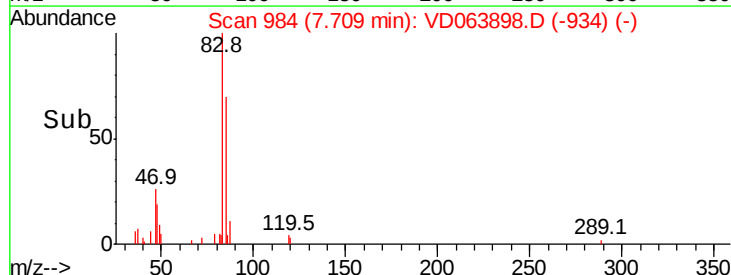
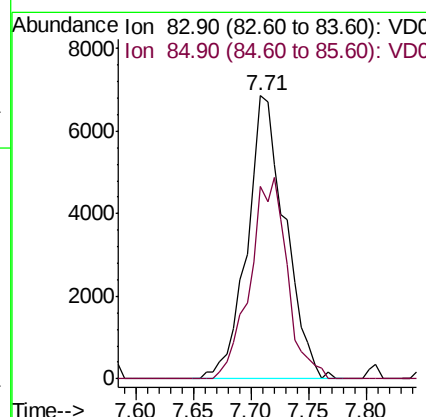
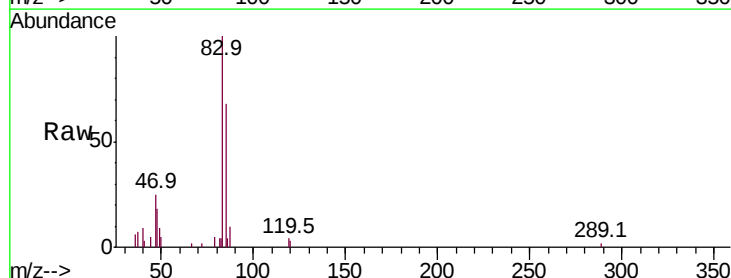
Instrument :
MSVOA_D
ClientSampleId :

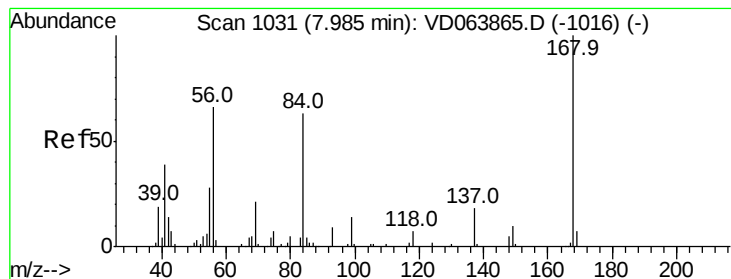
Tot Ion: 42 Resp: 6968
Ion Ratio Lower Upper
42 100
72 43.6 37.6 56.4
71 40.7 35.0 52.6



#30
Chloroform
Concen: 4.465 ug/l
RT: 7.71 min Scan# 984
Delta R.T. -0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 83 Resp: 15716
Ion Ratio Lower Upper
83 100
85 68.0 48.9 73.3





#31

Cyclohexane

Concen: 3.060 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.00 min

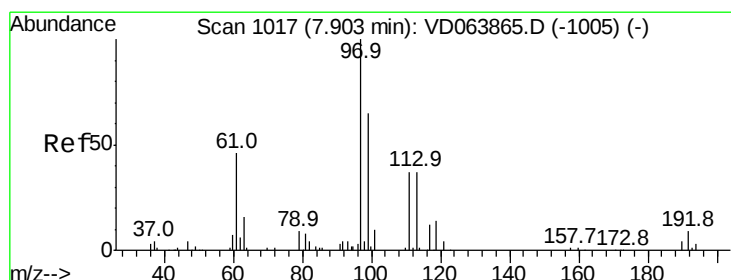
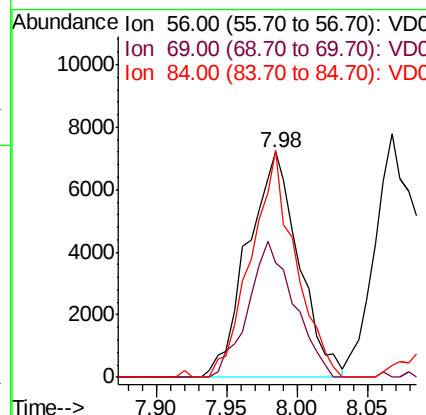
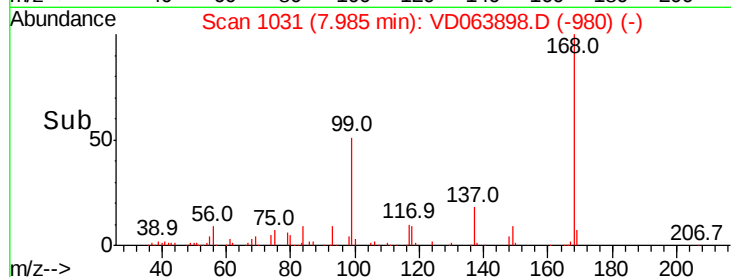
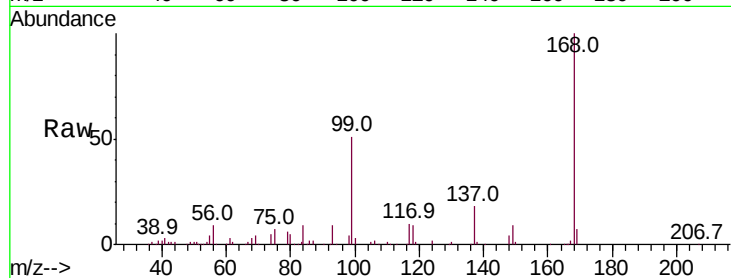
Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 18240

Ion	Ratio	Lower	Upper
56	100		
69	50.5	25.0	37.4#
84	100.7	76.3	114.5



#32

1,1,1-Trichloroethane

Concen: 4.248 ug/l

RT: 7.90 min Scan# 1017

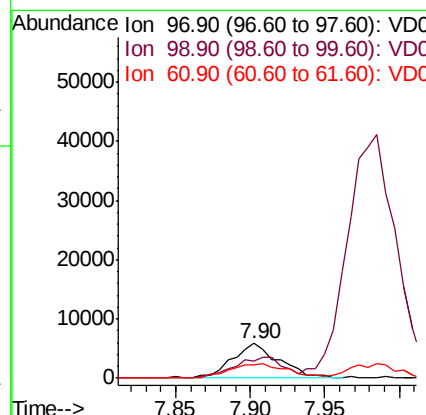
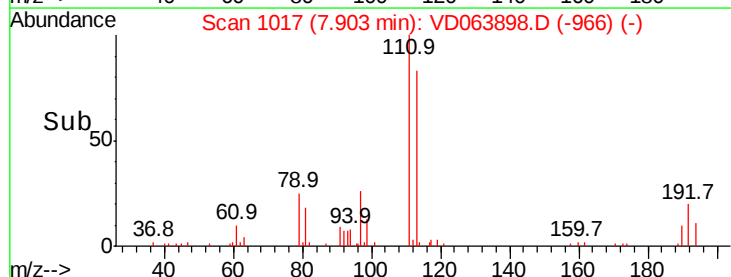
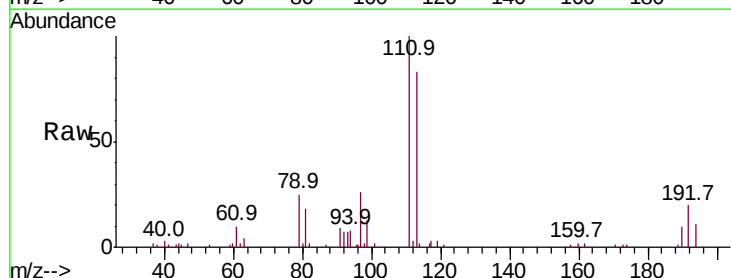
Delta R.T. -0.00 min

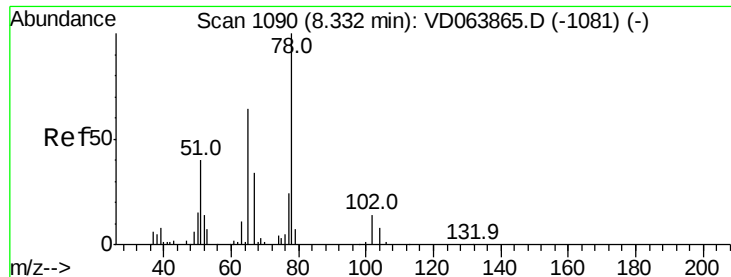
Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion: 97 Resp: 12828

Ion	Ratio	Lower	Upper
97	100		
99	64.3	52.4	78.6
61	50.0	33.8	50.8





#33

1,2-Dichloroethane-d4

Concen: 45.612 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

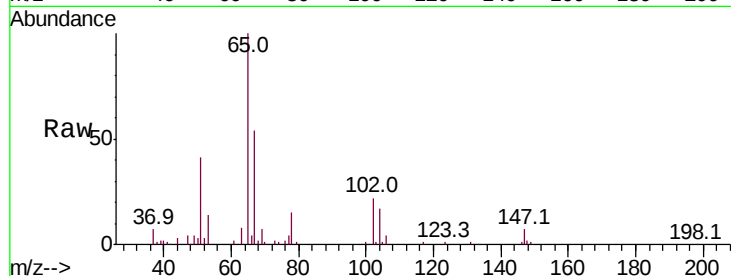
ClientSampleId :

Tot Ion: 65 Resp: 82111

Ion Ratio Lower Upper

65 100

67 55.6 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

40000

30000

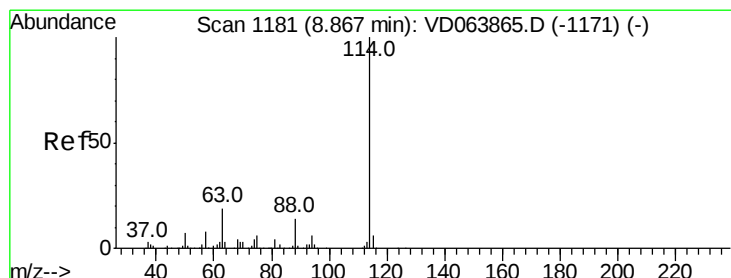
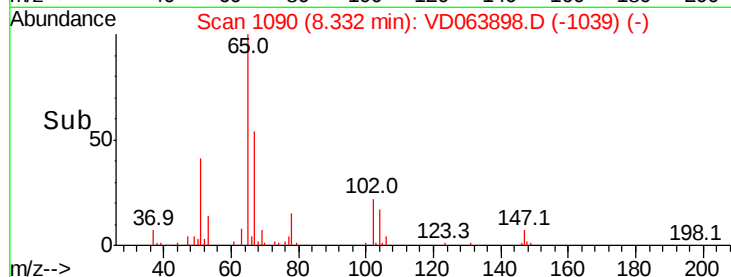
20000

10000

0

8.25 8.30 8.35 8.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

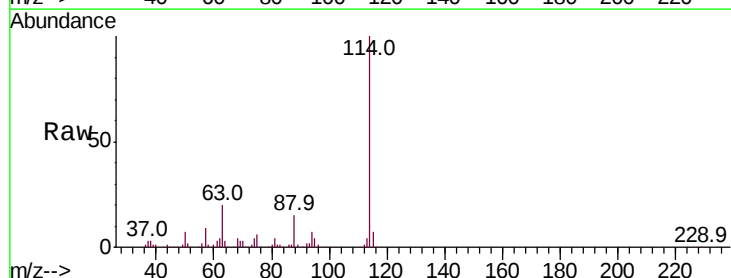
Tgt Ion: 114 Resp: 295168

Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.4

88 15.4 0.0 27.4



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

200000

150000

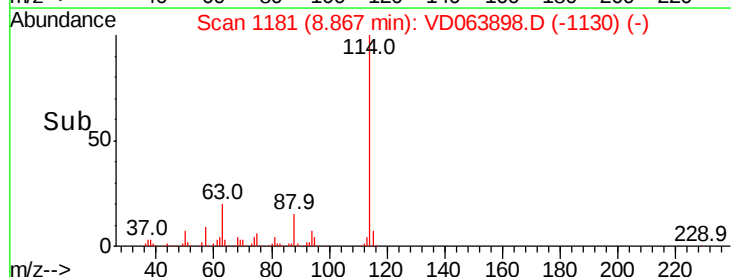
100000

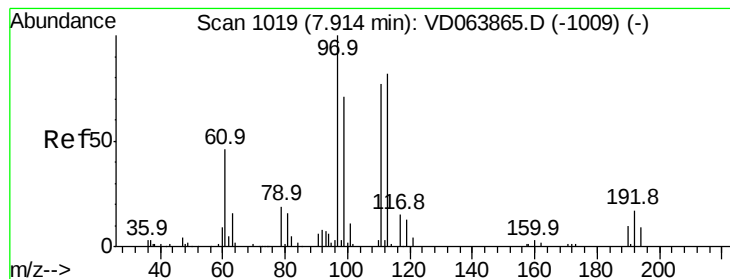
50000

0

8.80 8.85 8.90 8.95

Time-->





#35

Dibromofluoromethane

Concen: 45.248 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

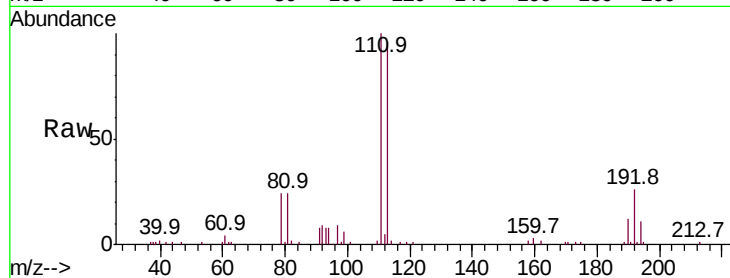
Tot Ion:113 Resp: 81622

Ion Ratio Lower Upper

113 100

111 105.5 82.6 123.8

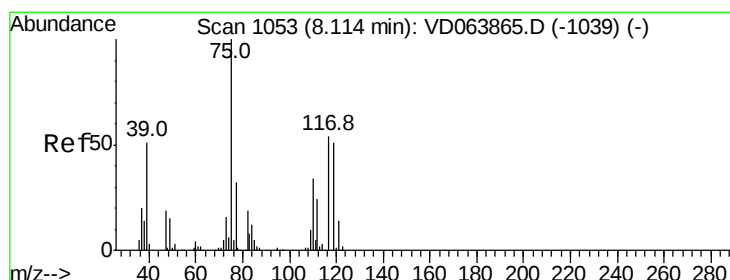
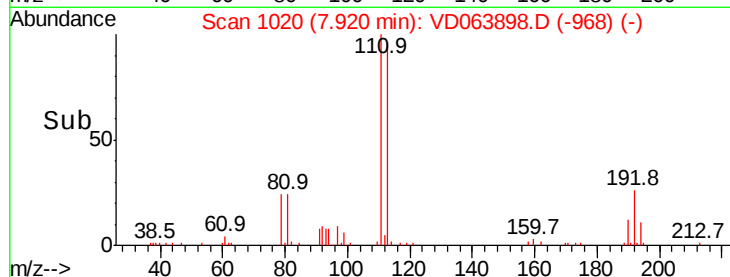
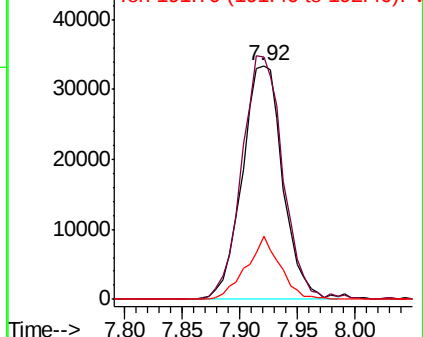
192 22.3 17.1 25.7



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: 4.894 ug/l

RT: 8.11 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

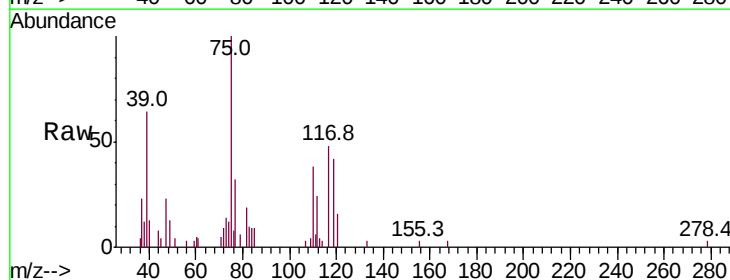
Tgt Ion: 75 Resp: 13209

Ion Ratio Lower Upper

75 100

110 36.3 17.4 52.3

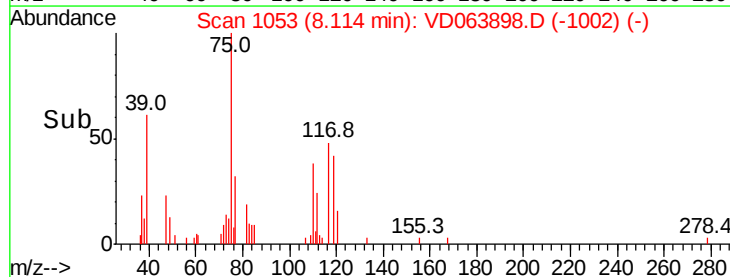
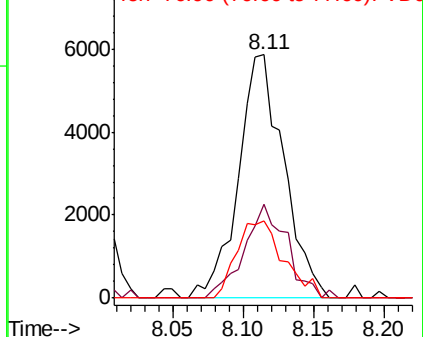
77 33.0 25.4 38.0

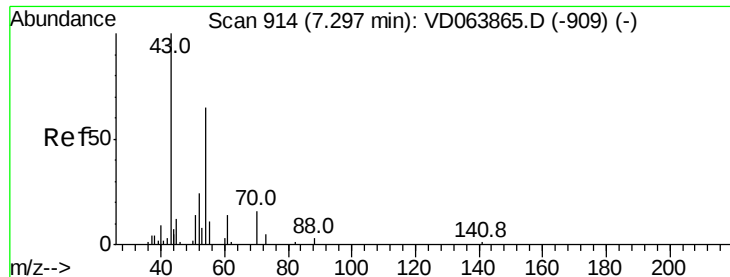


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

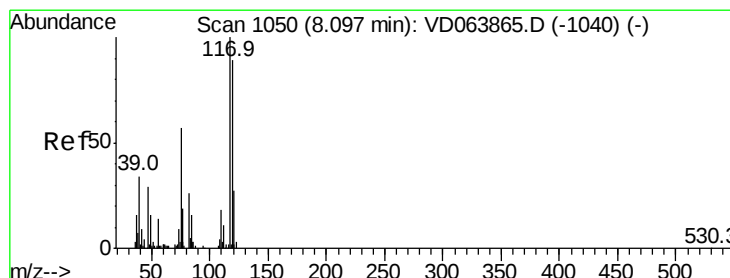
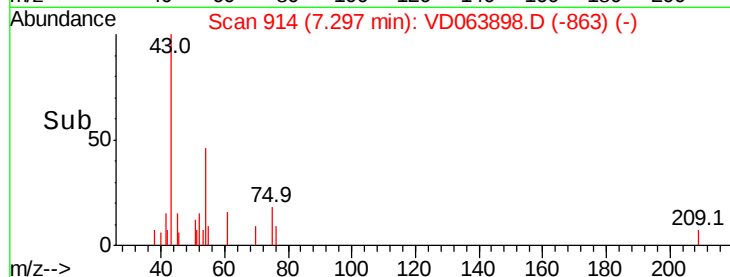
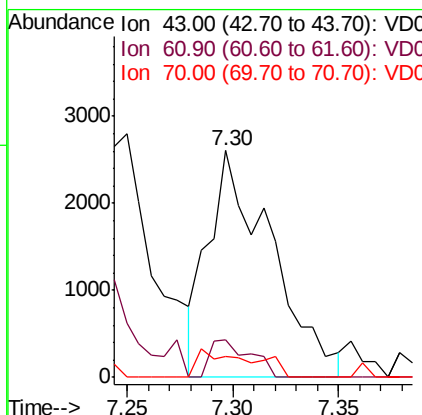
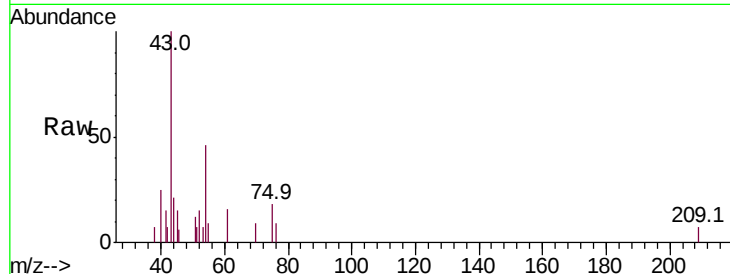




#37
Ethyl Acetate
Concen: 1.083 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

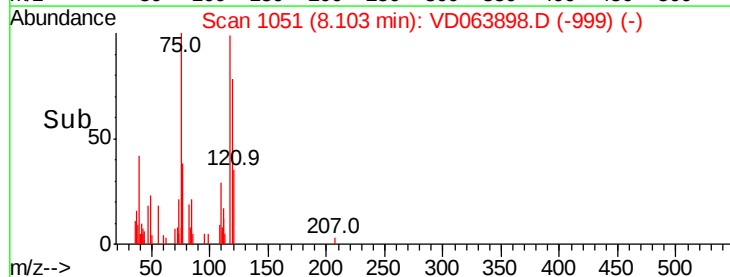
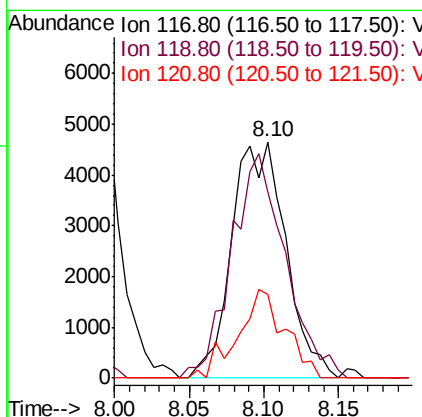
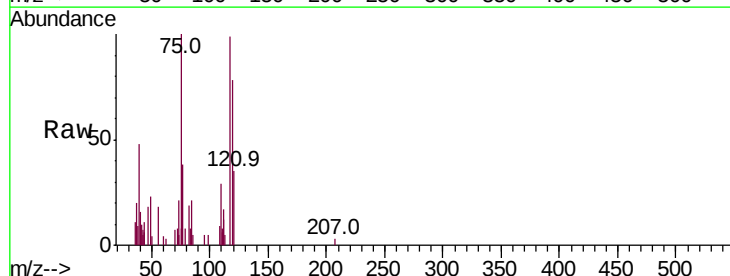
Instrument :
MSVOA_D
ClientSampleId :

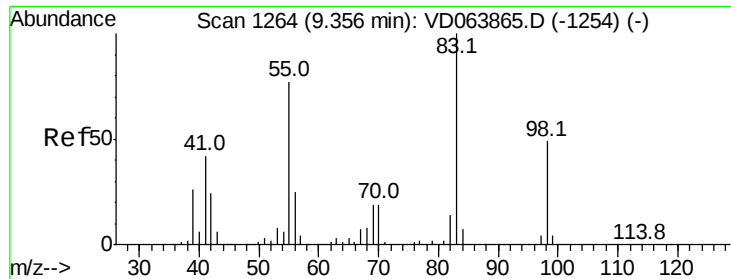
Tot Ion: 43 Resp: 5394
Ion Ratio Lower Upper
43 100
61 10.5 11.5 17.3#
70 10.4 8.2 12.4



#38
Carbon Tetrachloride
Concen: 4.296 ug/l
RT: 8.10 min Scan# 1051
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 117 Resp: 11716
Ion Ratio Lower Upper
117 100
119 75.8 70.8 106.2
121 35.3 21.4 32.0#

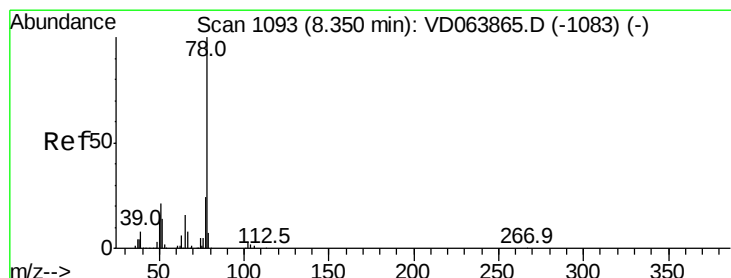
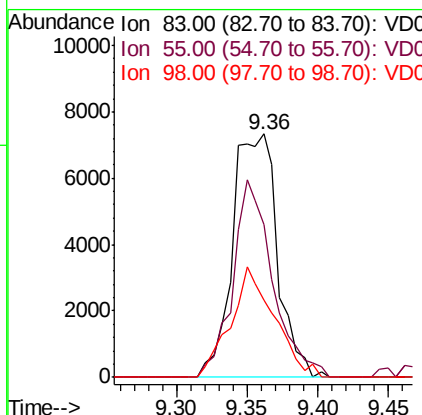
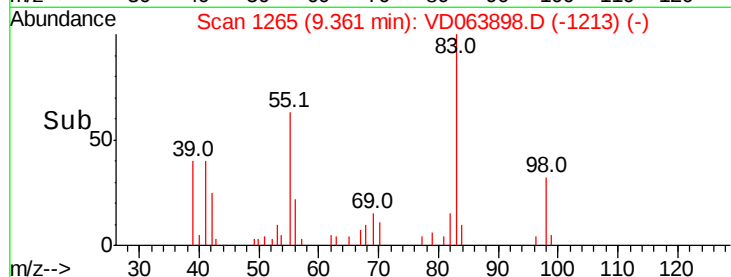
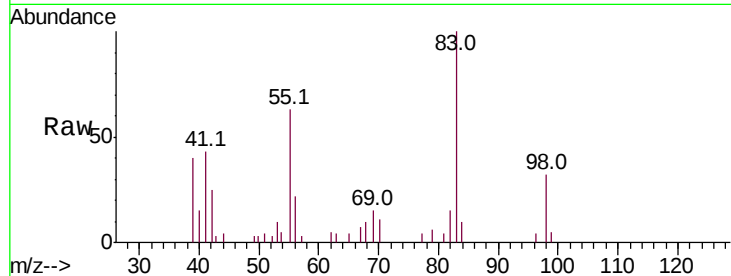




#39
Methvlcvclohexane
Concen: 4.899 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

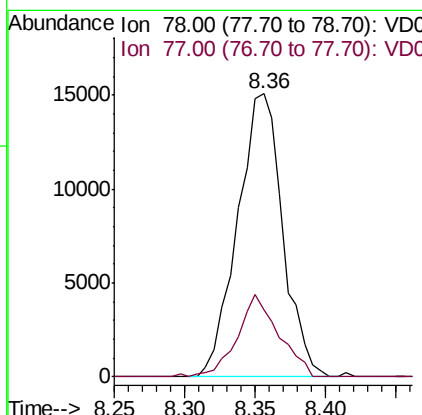
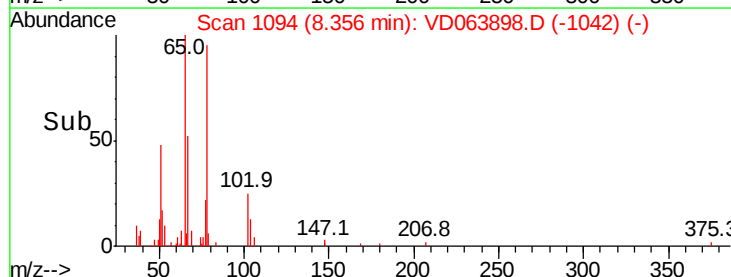
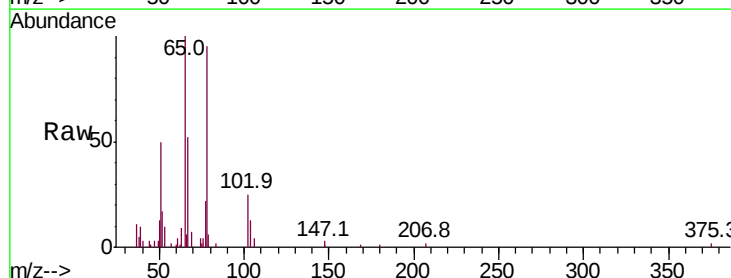
Instrument :
MSVOA_D
ClientSampleId :

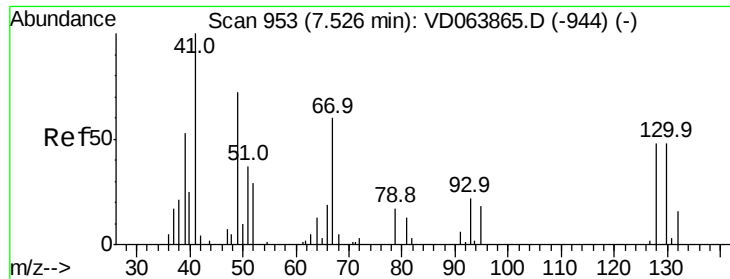
Tot Ion: 83 Resp: 16257
Ion Ratio Lower Upper
83 100
55 63.0 61.3 91.9
98 31.9 39.3 58.9#



#40
Benzene
Concen: 4.374 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 78 Resp: 33831
Ion Ratio Lower Upper
78 100
77 23.5 19.0 28.6

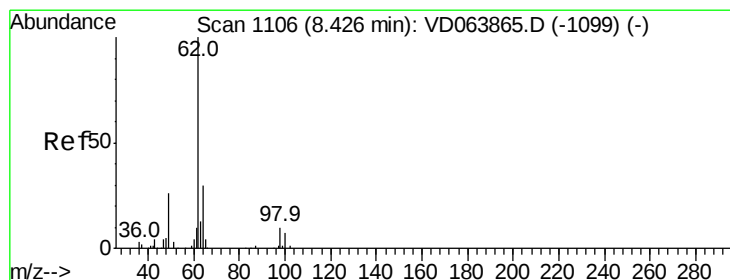
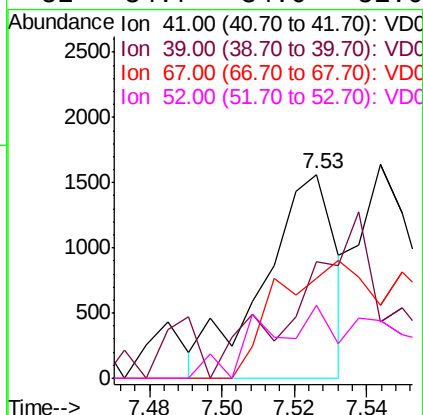
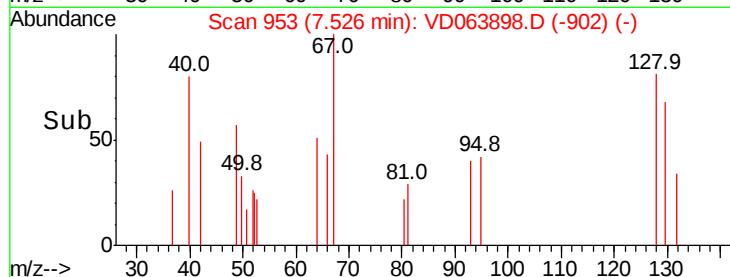
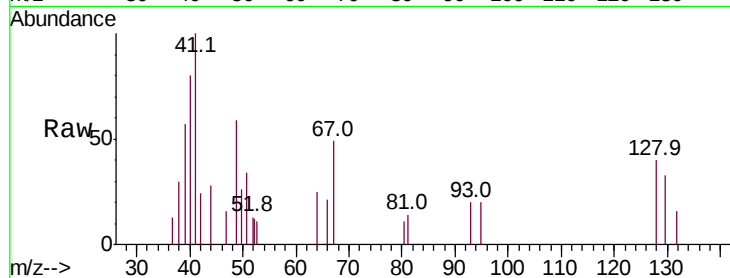




#41
Methacrylonitrile
Concen: 3.449 ug/l
RT: 7.53 min Scan# 953
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

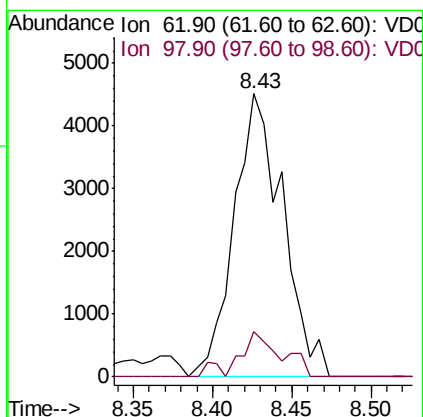
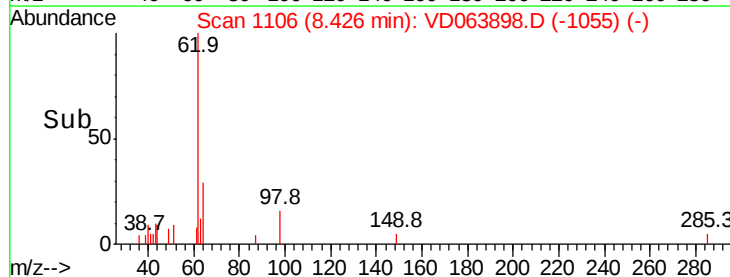
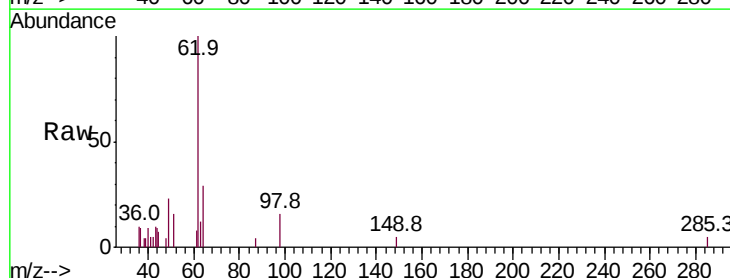
Instrument :
MSVOA_D
ClientSampleId :

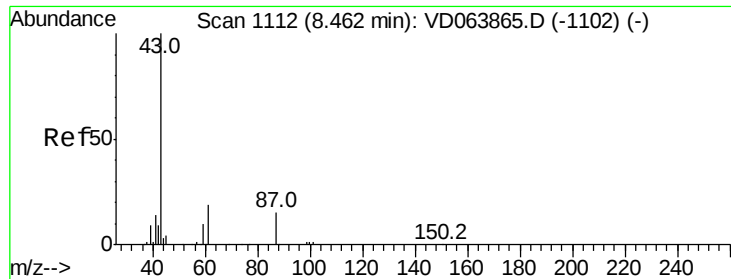
Tot Ion: 41 Resp: 2158
Ion Ratio Lower Upper
41 100
39 0.0 52.6 78.8#
67 0.0 74.2 111.2#
52 34.7 34.0 51.0



#42
1,2-Dichloroethane
Concen: 4.294 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 62 Resp: 9606
Ion Ratio Lower Upper
62 100
98 12.3 0.0 20.0





#43

Isopropyl Acetate

Concen: 4.521 ug/l

RT: 8.46 min Scan# 1111

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

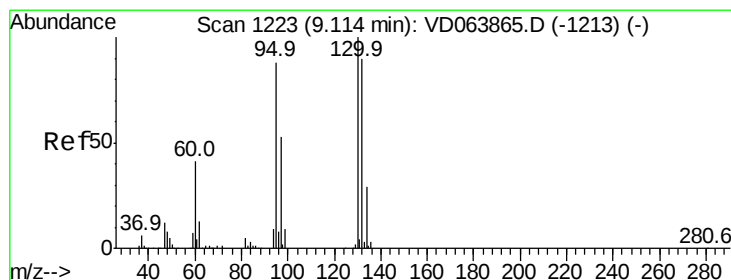
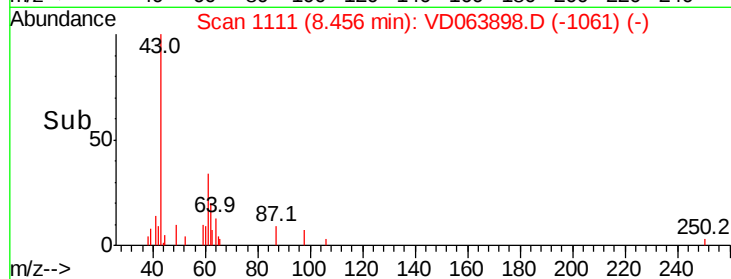
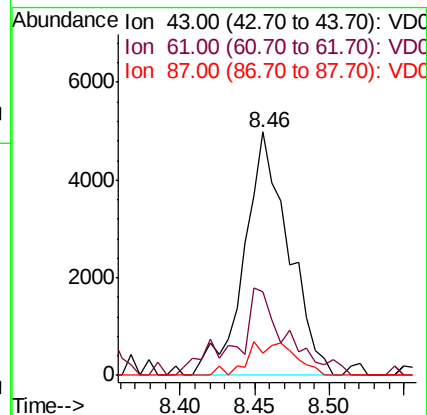
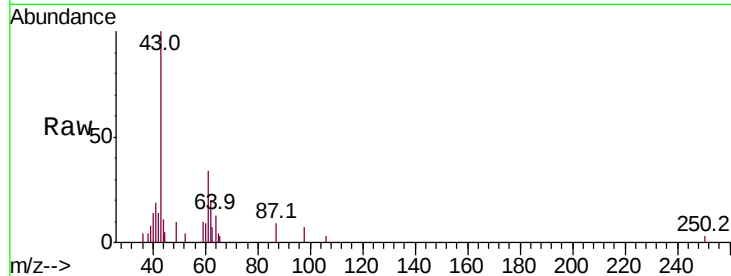
Tot Ion: 43 Resp: 10233

Ion Ratio Lower Upper

43 100

61 30.0 25.7 38.5

87 13.6 11.6 17.4



#44

Trichloroethene

Concen: 4.471 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD063898.D

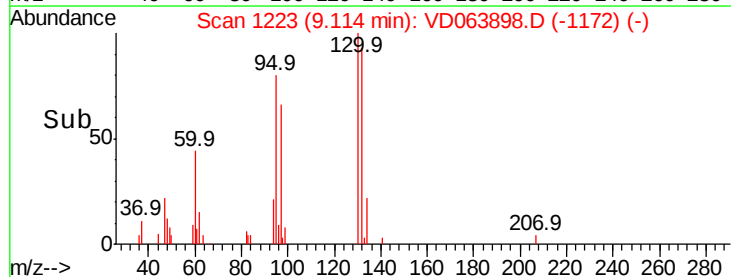
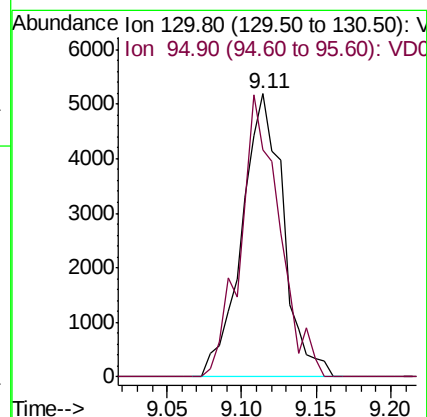
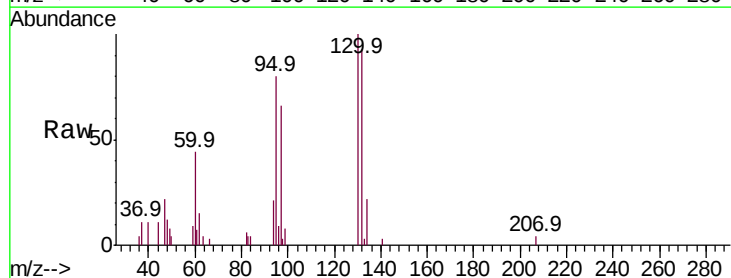
Acq: 07 Oct 2019 14:06

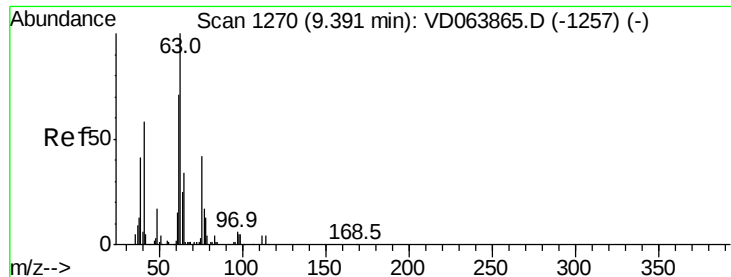
Tgt Ion:130 Resp: 9971

Ion Ratio Lower Upper

130 100

95 80.0 0.0 175.6

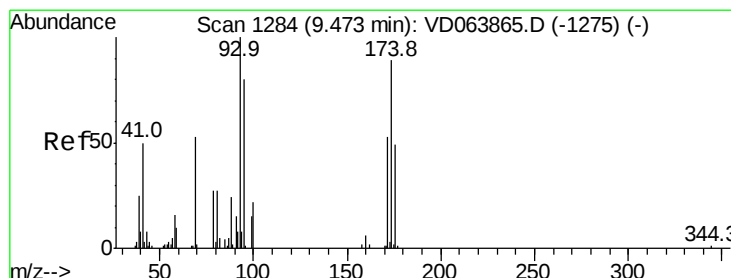
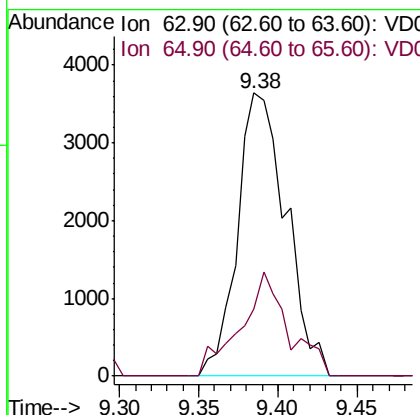
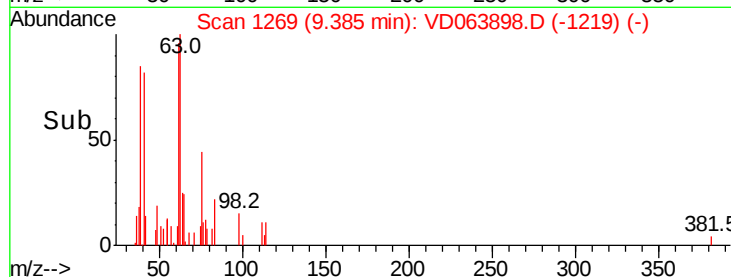
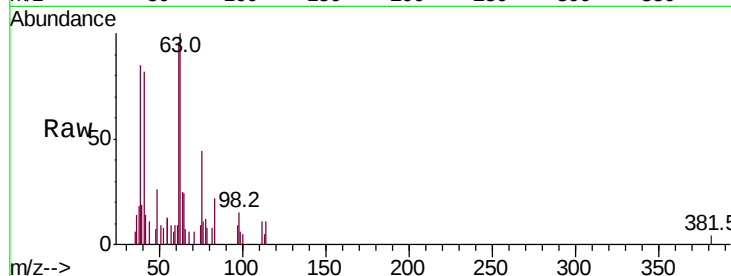




#45
 1,2-Dichloropropane
 Concen: 4.093 ug/l
 RT: 9.38 min Scan# 1269
 Delta R.T. -0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

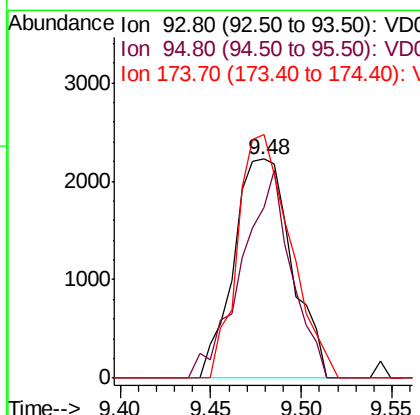
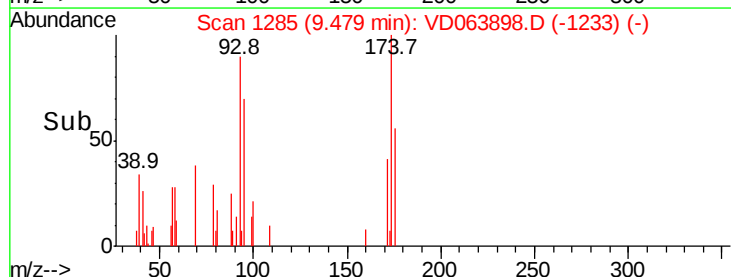
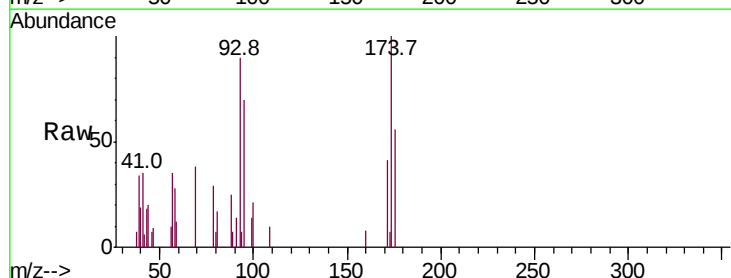
Instrument :
 MSVOA_D
 ClientSampleId :

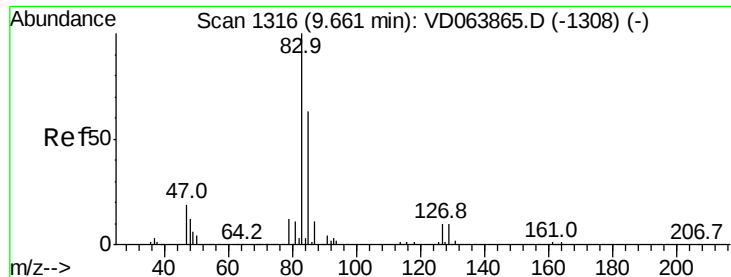
Tot Ion: 63 Resp: 7749
 Ion Ratio Lower Upper
 63 100
 65 23.7 27.3 40.9#



#46
 Dibromomethane
 Concen: 4.613 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion: 93 Resp: 4973
 Ion Ratio Lower Upper
 93 100
 95 81.3 66.0 99.0
 174 101.1 83.4 125.0





#47

Bromodichloromethane

Concen: 4.168 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :
MSVOA_D
ClientSampleId :

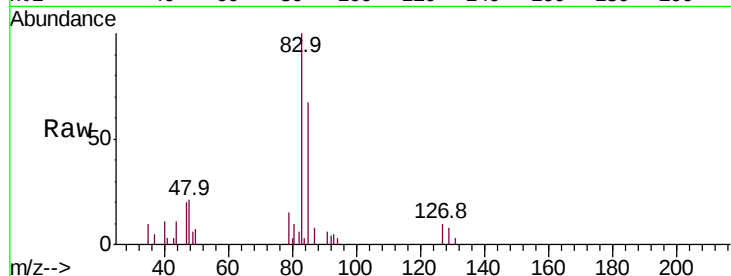
Tot Ion: 83 Resp: 11569

Ion Ratio Lower Upper

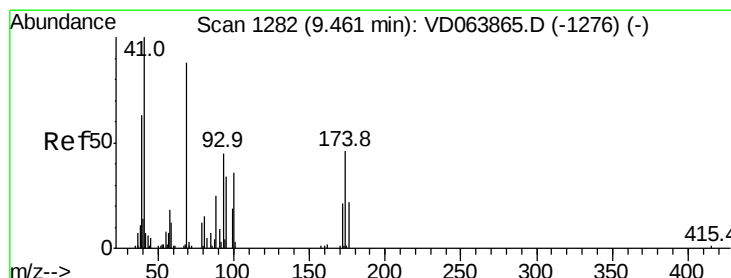
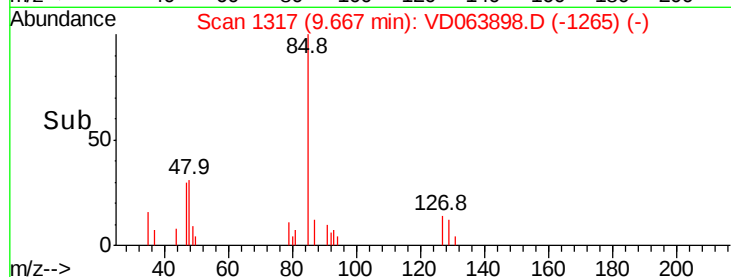
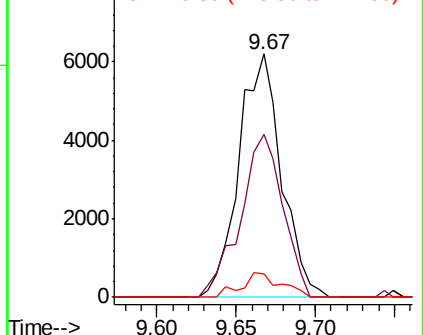
83 100

85 67.0 50.2 75.2

127 9.6 7.6 11.4



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: 4.460 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

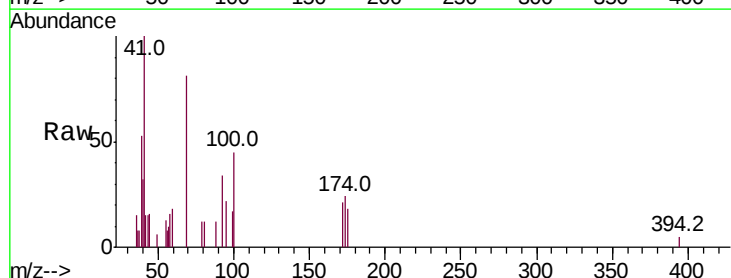
Tgt Ion: 41 Resp: 4837

Ion Ratio Lower Upper

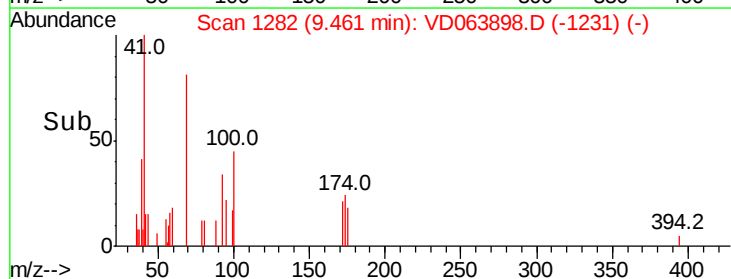
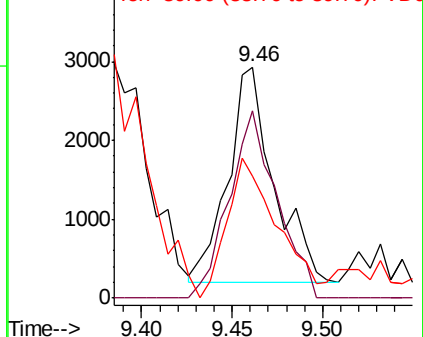
41 100

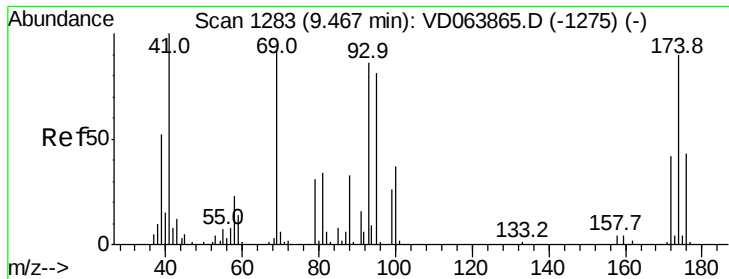
69 90.0 75.1 112.7

39 70.3 50.2 75.2



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: 98.805 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :
MSVOA_D
ClientSampled :

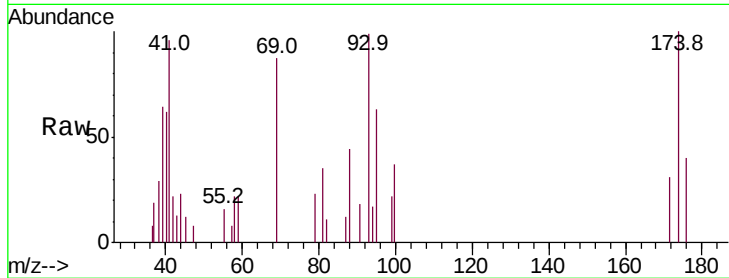
Tot Ion: 88 Resp: 1454

Ion Ratio Lower Upper

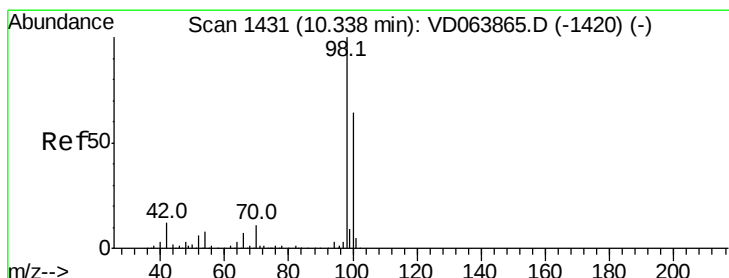
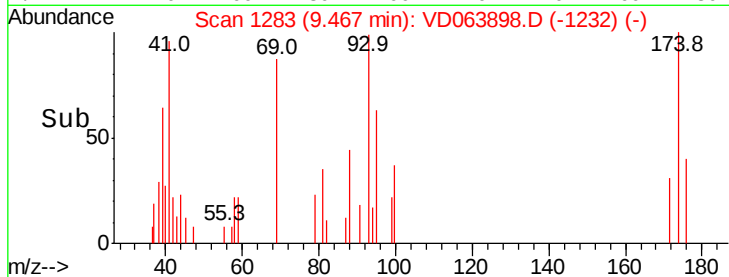
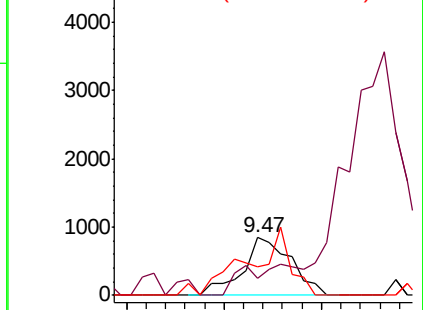
88 100

43 24.4 27.6 41.4#

58 53.0 54.1 81.1#



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: 46.592 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. -0.00 min

Lab File: VD063898.D

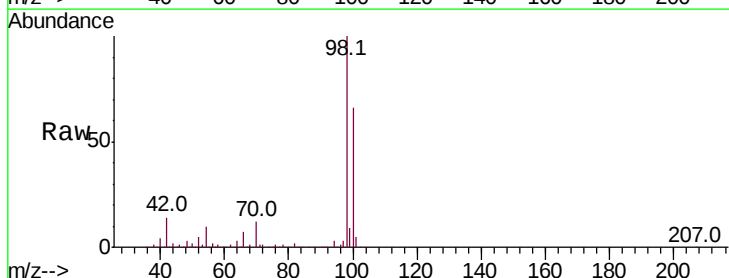
Acq: 07 Oct 2019 14:06

Tgt Ion: 98 Resp: 341129

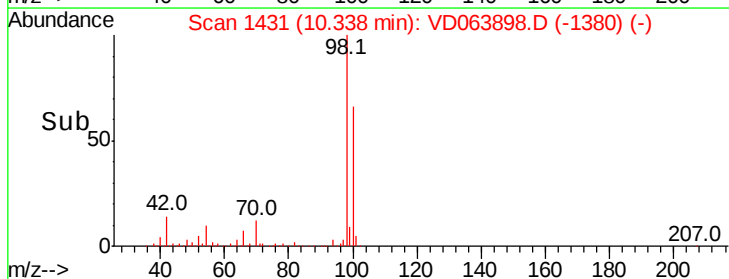
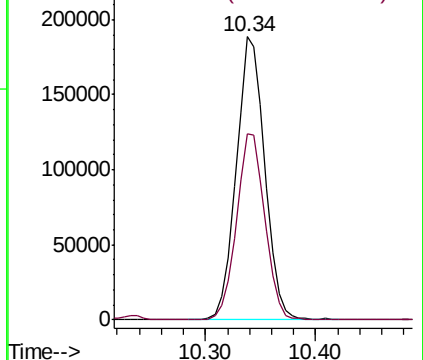
Ion Ratio Lower Upper

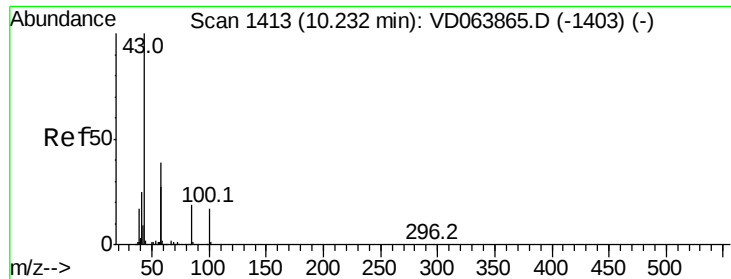
98 100

100 65.6 52.1 78.1



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: 21.765 ug/l

RT: 10.24 min Scan# 1414

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

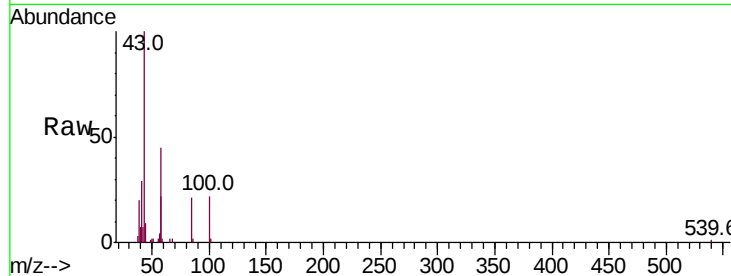
ClientSampleId :

Tot Ion: 43 Resp: 25548

Ion Ratio Lower Upper

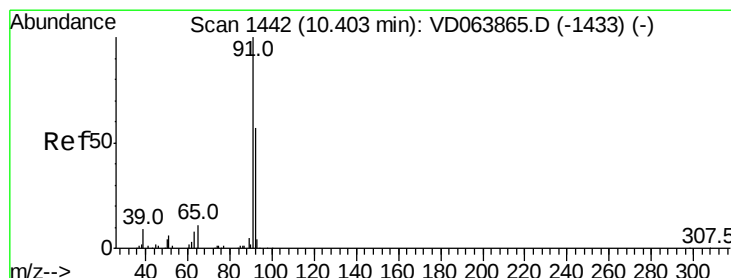
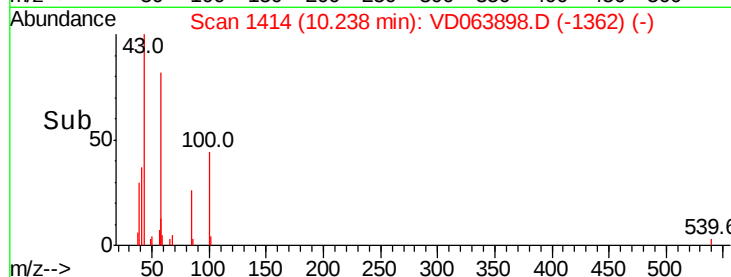
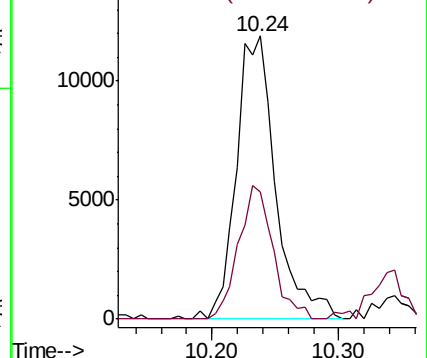
43 100

58 41.4 33.0 49.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 4.481 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD063898.D

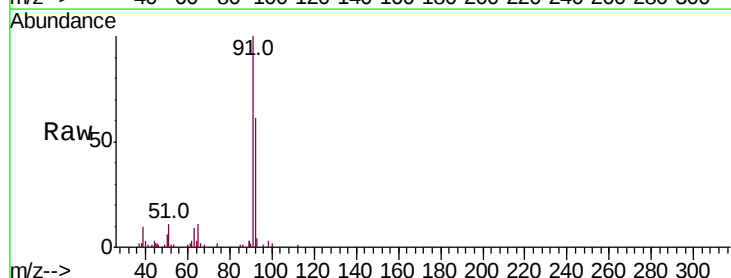
Acq: 07 Oct 2019 14:06

Tgt Ion: 92 Resp: 23788

Ion Ratio Lower Upper

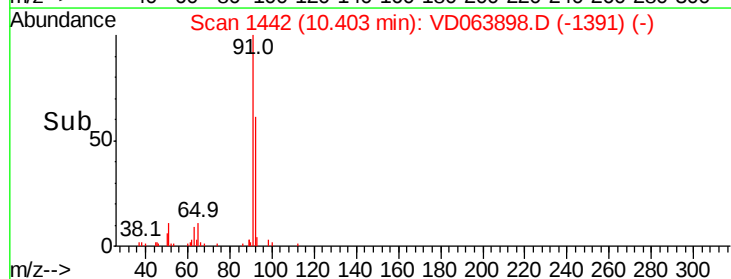
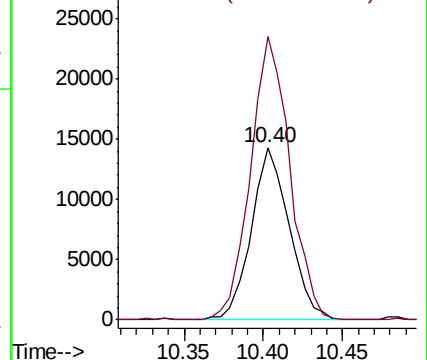
92 100

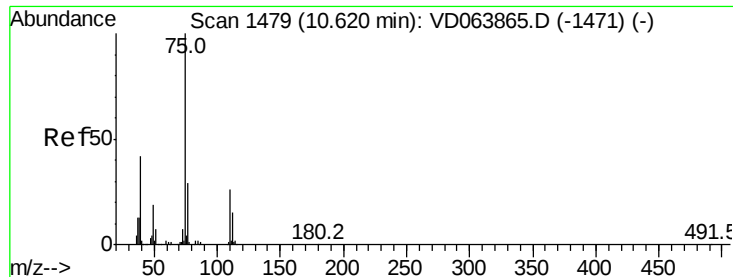
91 170.0 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 3.930 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

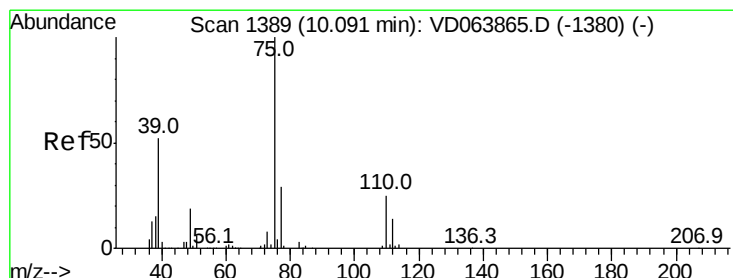
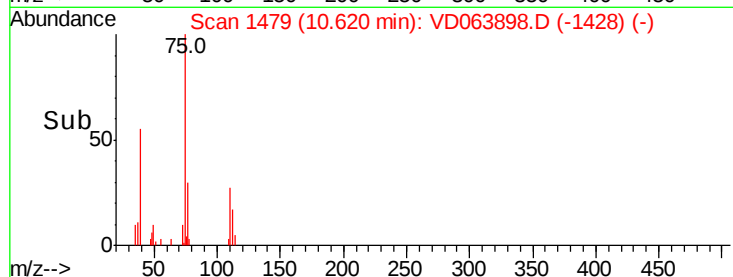
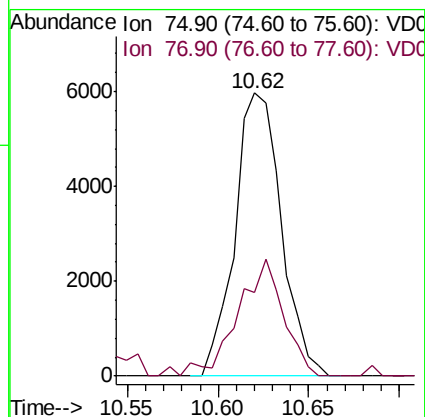
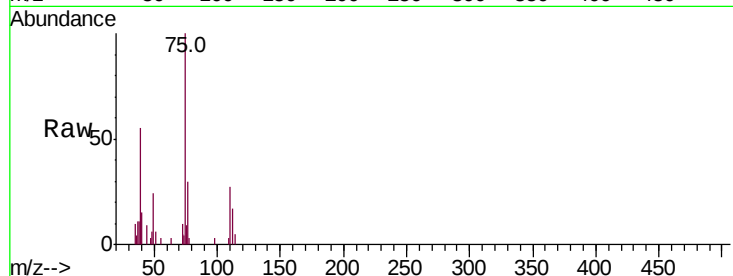
ClientSampleId :

Tot Ion: 75 Resp: 10644

Ion Ratio Lower Upper

75 100

77 29.7 22.8 34.2



#54

cis-1,3-Dichloropropene

Concen: 4.494 ug/l

RT: 10.10 min Scan# 1390

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

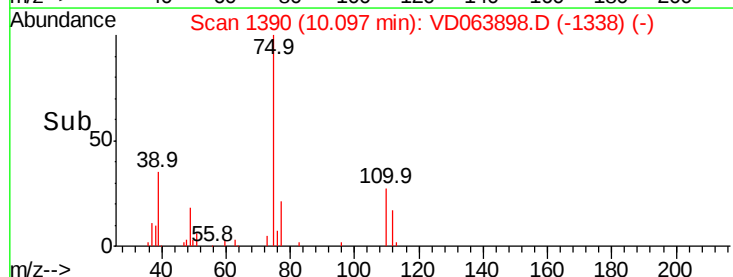
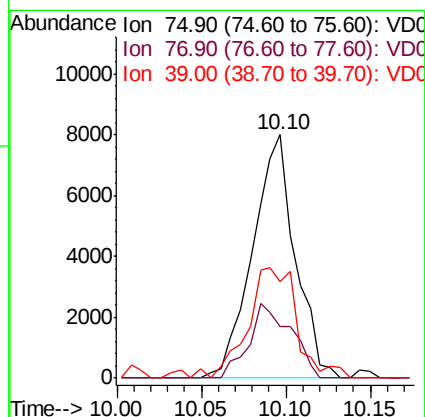
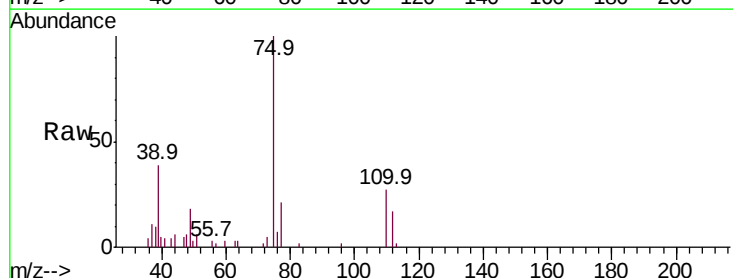
Tgt Ion: 75 Resp: 14010

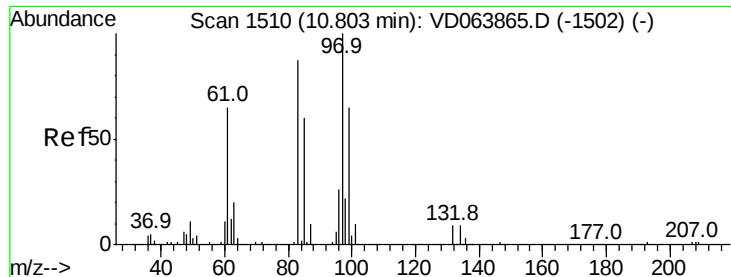
Ion Ratio Lower Upper

75 100

77 21.3 23.2 34.8#

39 39.3 41.5 62.3#





#55

1,1,2-Trichloroethane

Concen: 4.518 ug/l

RT: 10.80 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 97 Resp: 6877

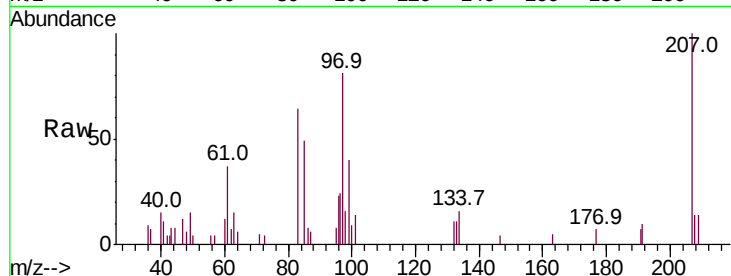
Ion Ratio Lower Upper

97 100

83 78.4 69.7 104.5

85 60.0 48.1 72.1

99 48.9 51.9 77.9#

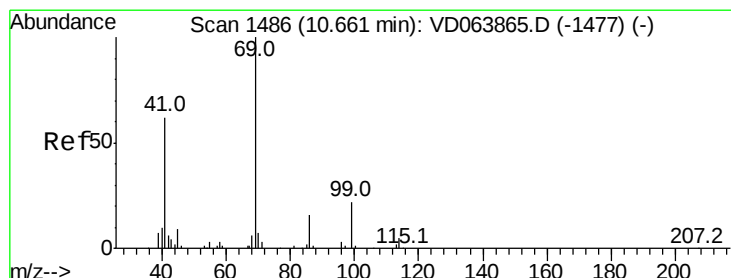
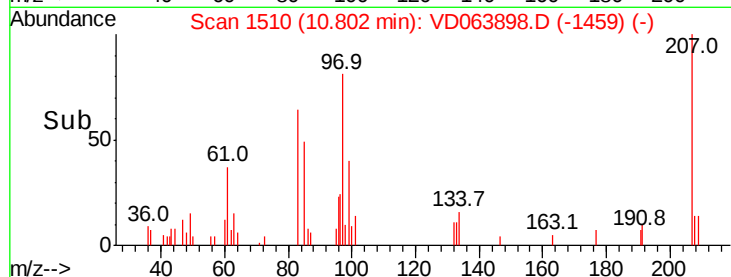
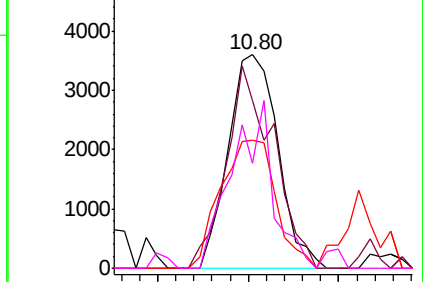


Abundance Ion 96.90 (96.60 to 97.60): VDC

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: 4.425 ug/l

RT: 10.67 min Scan# 1487

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

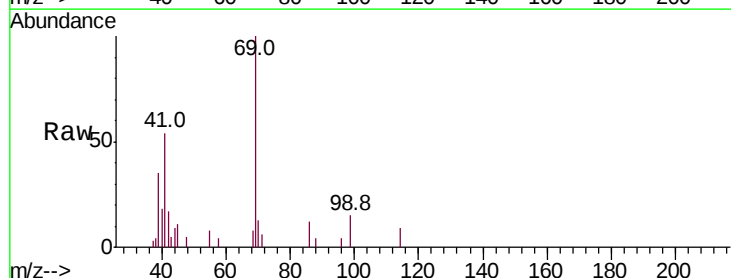
Tgt Ion: 69 Resp: 8530

Ion Ratio Lower Upper

69 100

41 63.8 51.3 76.9

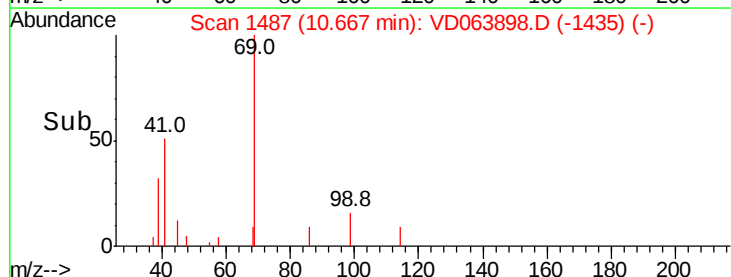
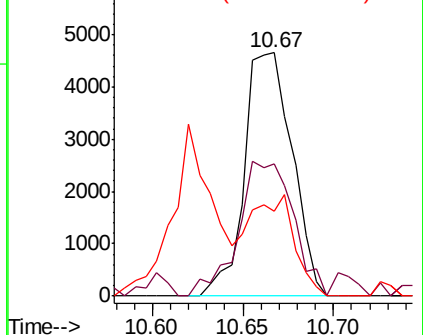
39 39.8 28.0 42.0

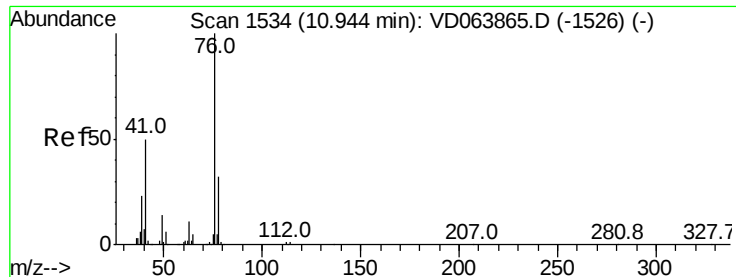


Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC





#57

1,3-Dichloropropane

Concen: 4.469 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

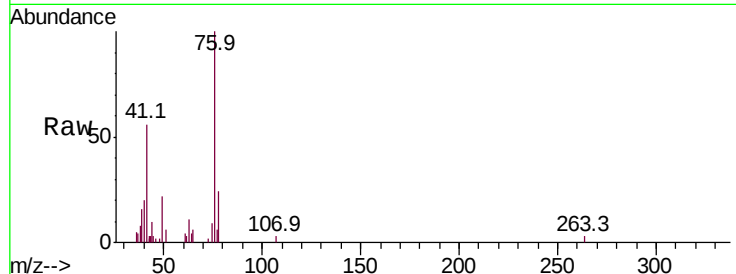
ClientSampleId :

Tot Ion: 76 Resp: 11640

Ion Ratio Lower Upper

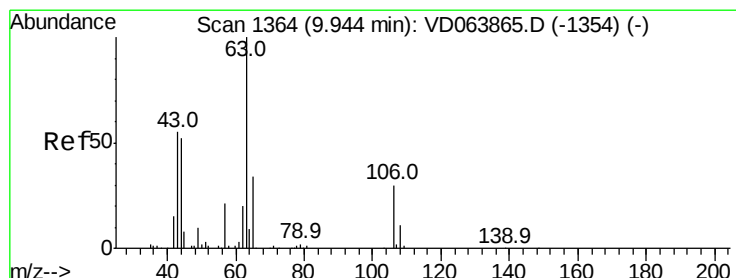
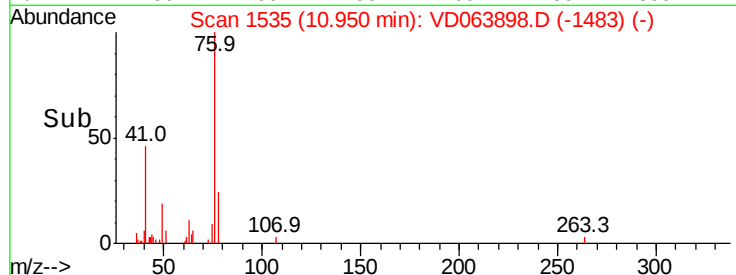
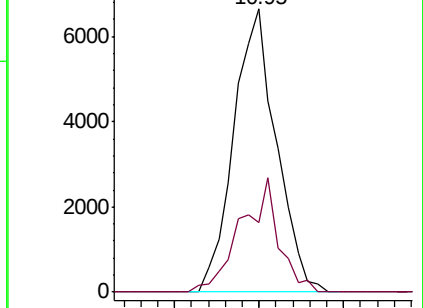
76 100

78 35.6 26.6 40.0



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 18.937 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD063898.D

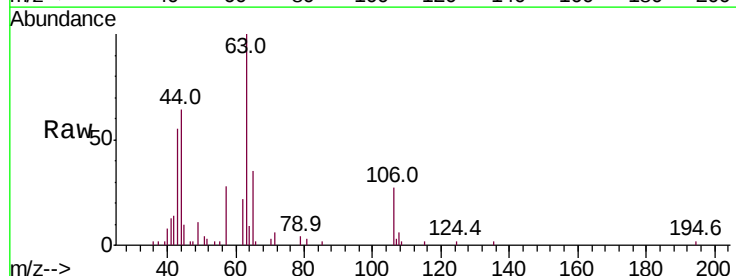
Acq: 07 Oct 2019 14:06

Tgt Ion: 63 Resp: 15691

Ion Ratio Lower Upper

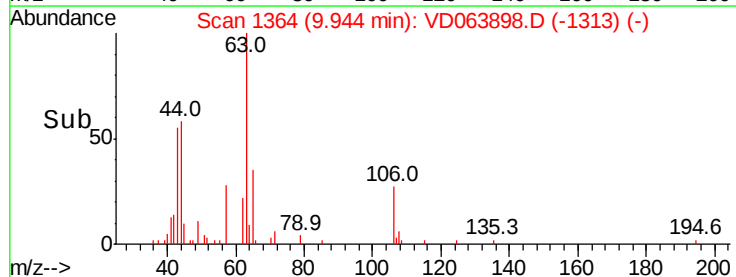
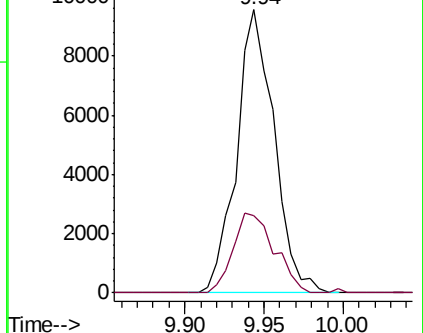
63 100

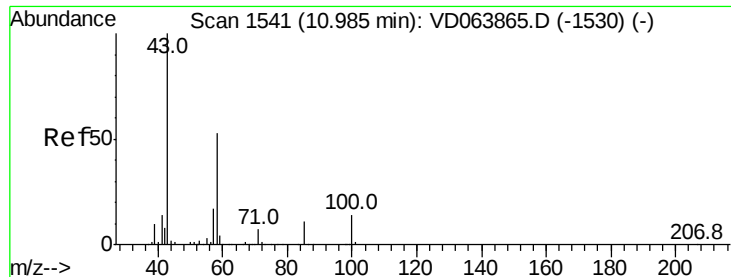
106 31.1 24.3 36.5



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 105.90 (105.60 to 106.60): VDC

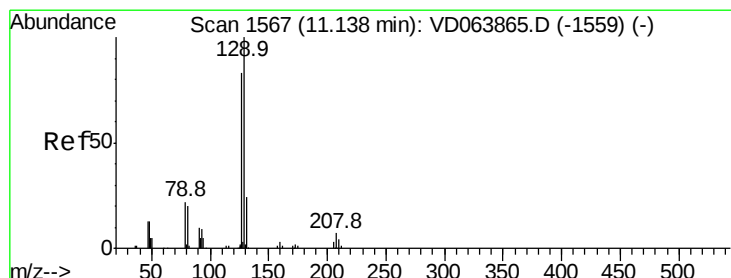
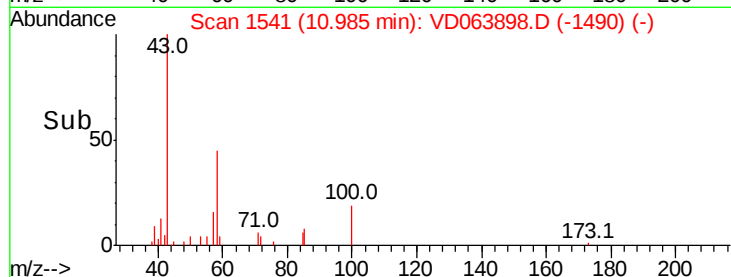
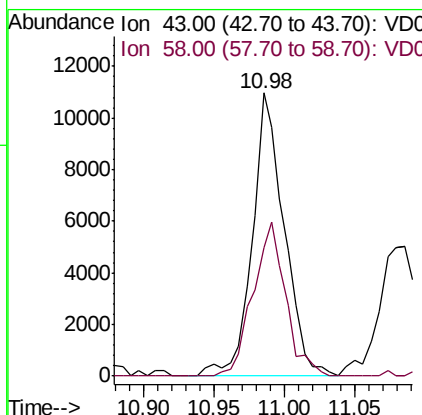
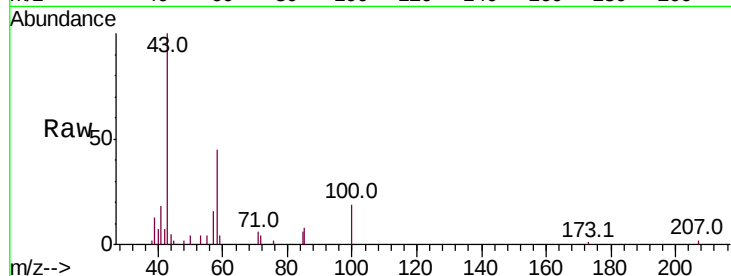




#59
2-Hexanone
Concen: 20.523 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

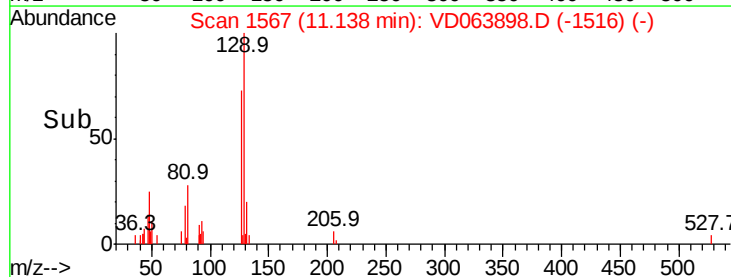
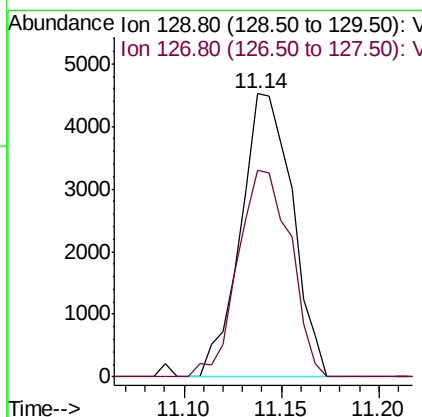
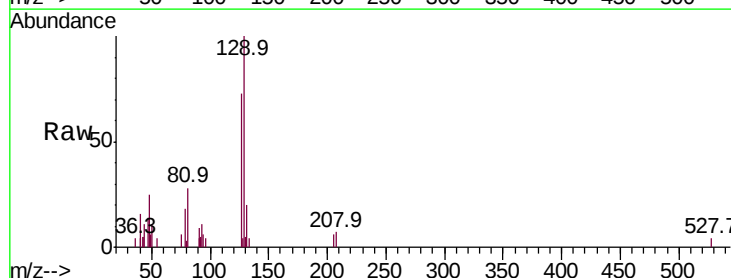
Instrument :
MSVOA_D
ClientSampleId :

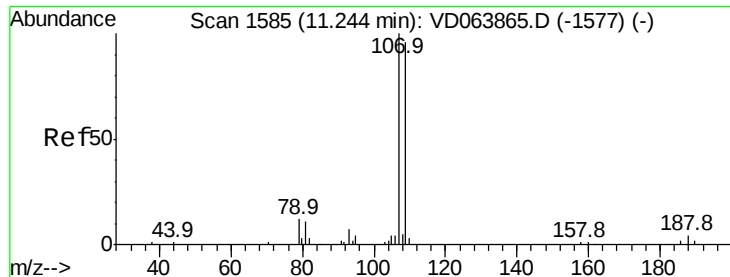
Tot Ion: 43 Resp: 17426
Ion Ratio Lower Upper
43 100
58 55.7 27.7 83.0



#60
Dibromochloromethane
Concen: 4.194 ug/l
RT: 11.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 129 Resp: 8312
Ion Ratio Lower Upper
129 100
127 74.3 39.9 119.6

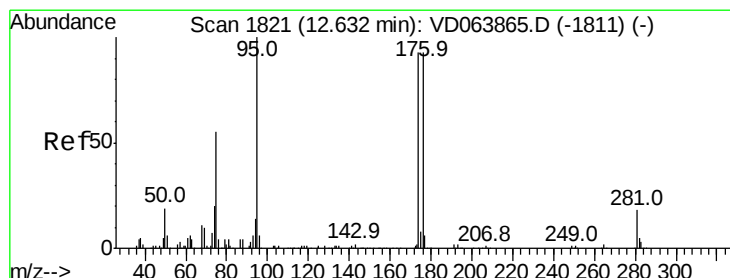
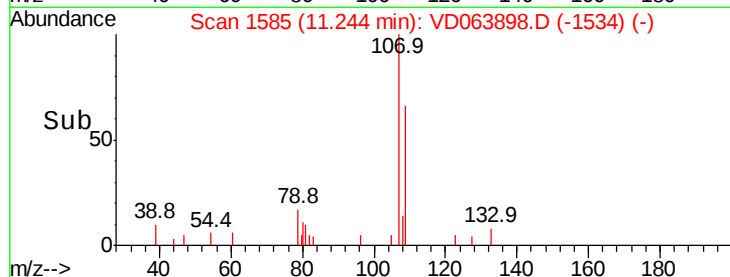
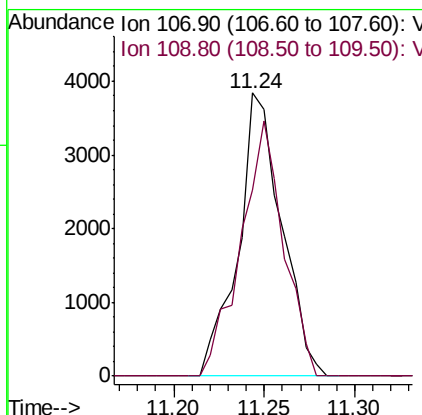
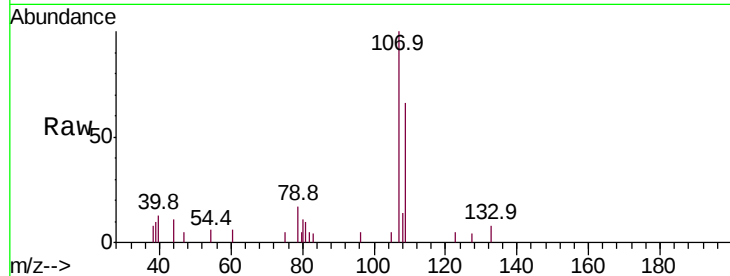




#61
 1,2-Dibromoethane
 Concen: 4.319 ug/l
 RT: 11.24 min Scan# 1585
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

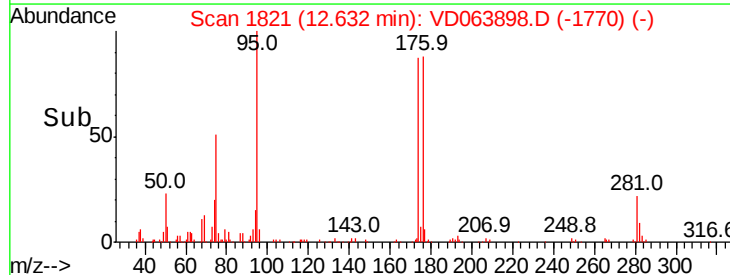
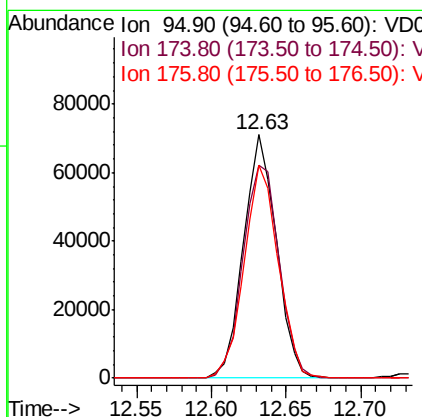
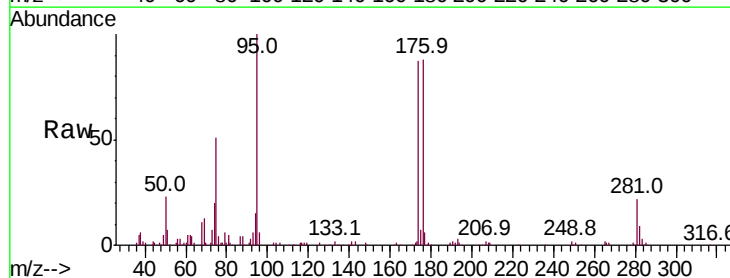
Instrument :
 MSVOA_D
 ClientSampleId :

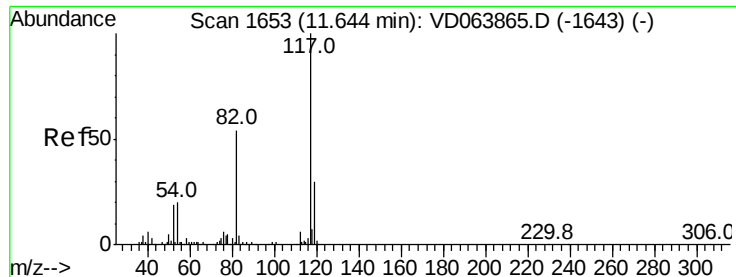
Tot Ion: 107 Resp: 6374
 Ion Ratio Lower Upper
 107 100
 109 88.8 75.2 112.8



#62
 4-Bromofluorobenzene
 Concen: 42.423 ug/l
 RT: 12.63 min Scan# 1821
 Delta R.T. -0.00 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion: 95 Resp: 107934
 Ion Ratio Lower Upper
 95 100
 174 96.5 0.0 186.4
 176 91.0 0.0 184.2

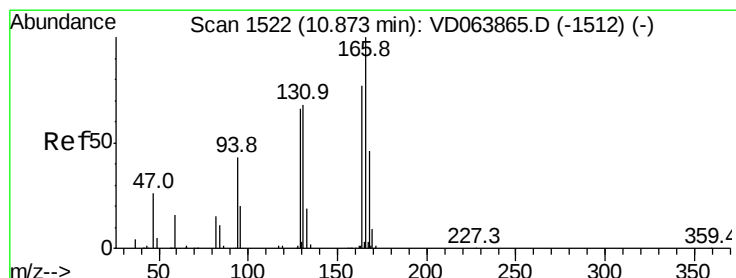
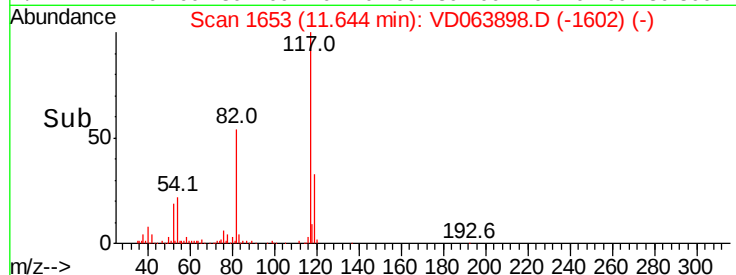
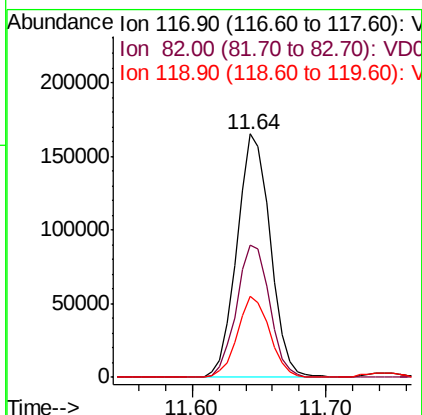
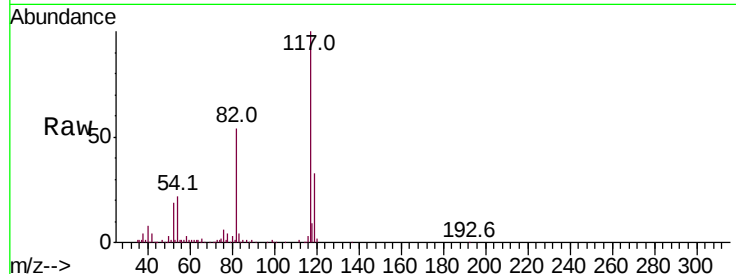




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

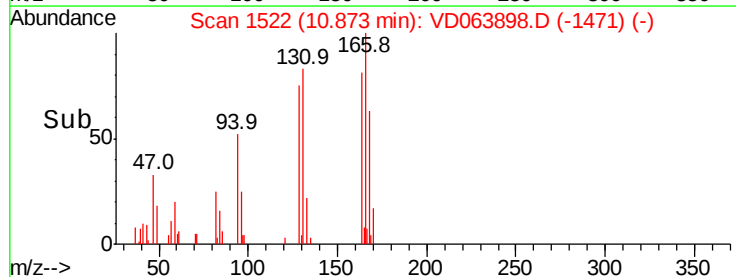
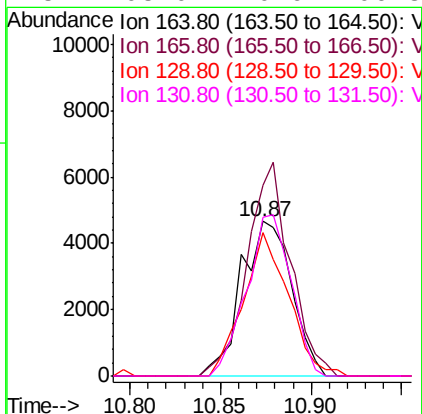
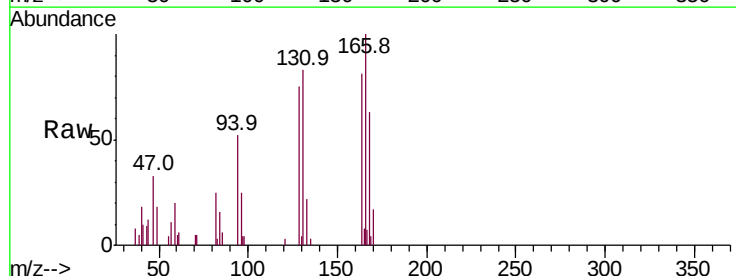
Instrument :
MSVOA_D
ClientSampled :

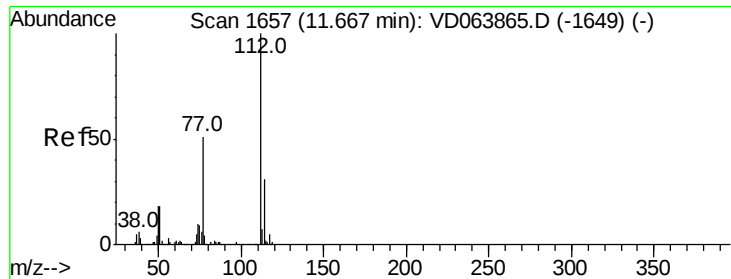
Tot Ion:117 Resp: 284594
Ion Ratio Lower Upper
117 100
82 54.4 42.8 64.2
119 33.5 24.4 36.6



#64
Tetrachloroethene
Concen: 4.646 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion:164 Resp: 9027
Ion Ratio Lower Upper
164 100
166 123.4 103.8 155.6
129 92.5 68.9 103.3
131 103.0 70.9 106.3

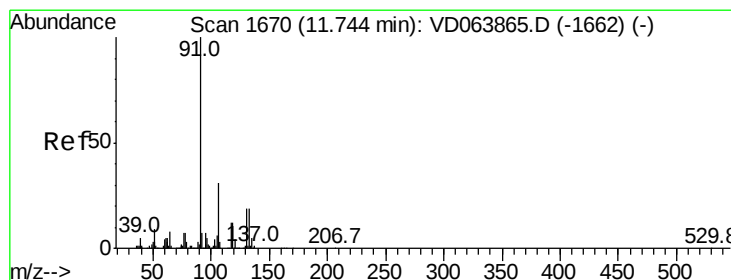
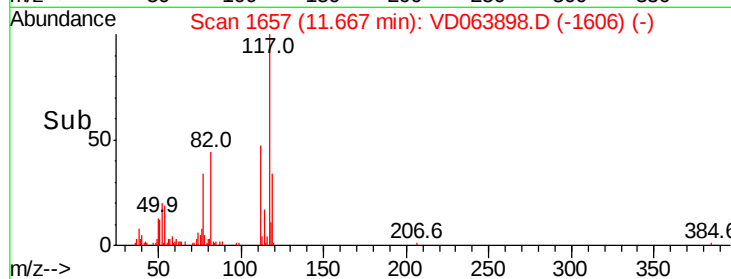
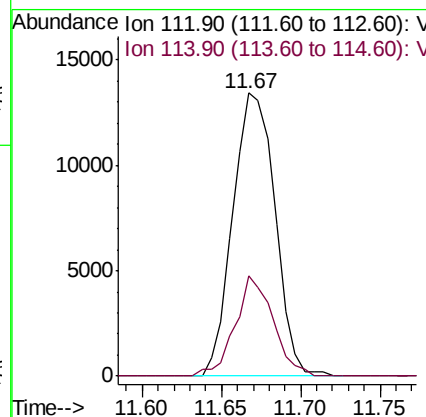
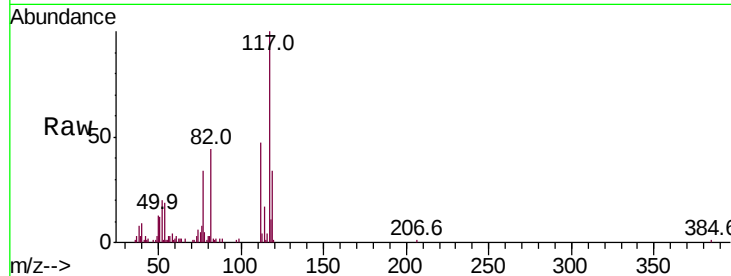




#65
Chlorobenzene
Concen: 4.342 ug/l
RT: 11.67 min Scan# 1657
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

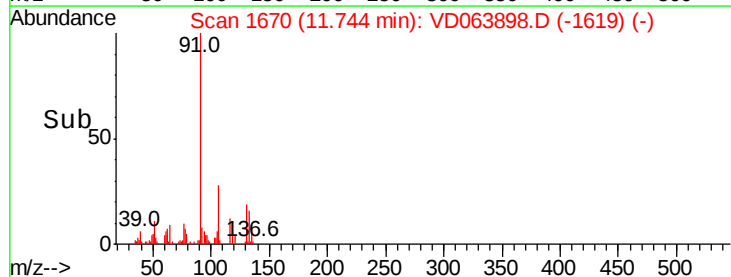
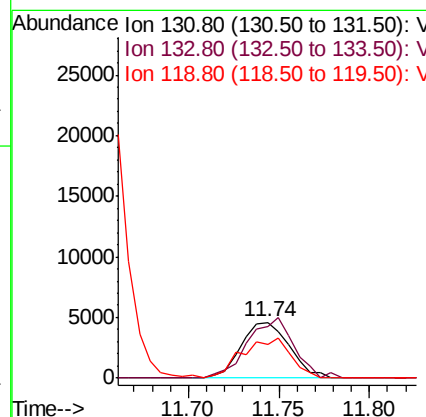
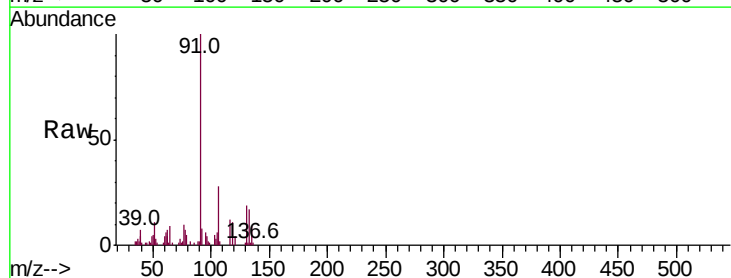
Instrument :
MSVOA_D
ClientSampleId :

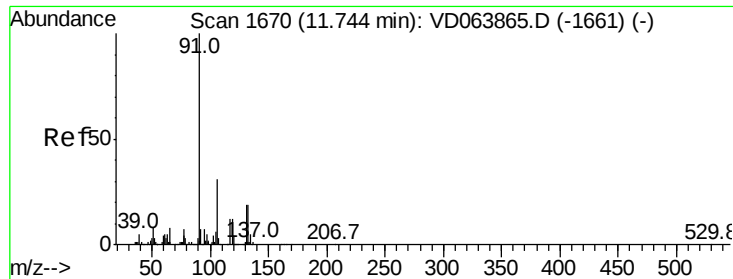
Tot Ion:112 Resp: 24819
Ion Ratio Lower Upper
112 100
114 35.6 25.1 37.7



#66
1,1,1,2-Tetrachloroethane
Concen: 4.047 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion:131 Resp: 8524
Ion Ratio Lower Upper
131 100
133 103.4 48.9 146.7
119 72.5 32.6 97.8





#67

Ethyl Benzene

Concen: 4.150 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

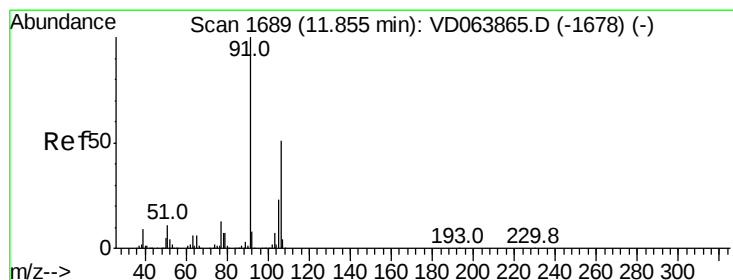
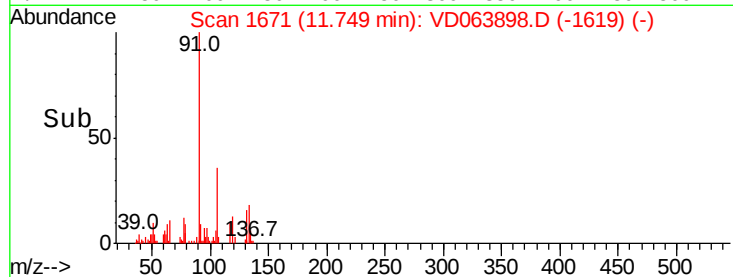
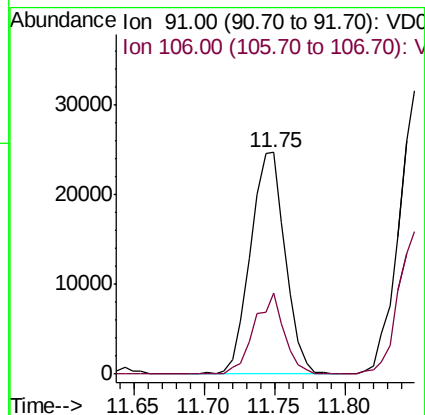
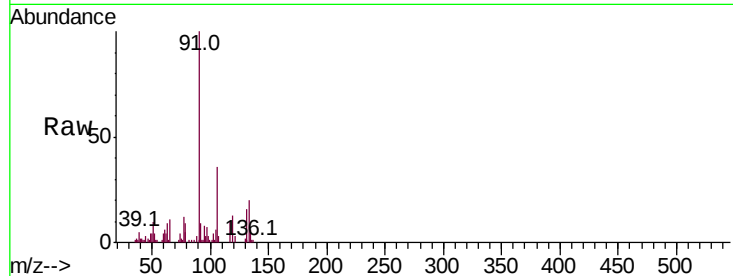
ClientSampleId :

Tot Ion: 91 Resp: 42772

Ion Ratio Lower Upper

91 100

106 36.4 24.6 37.0



#68

m/p-Xylenes

Concen: 8.237 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD063898.D

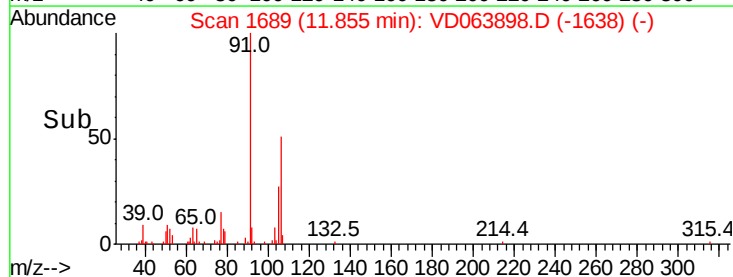
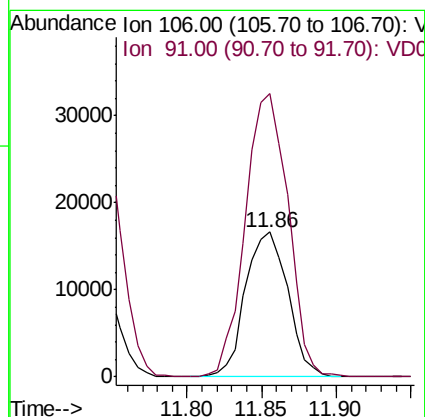
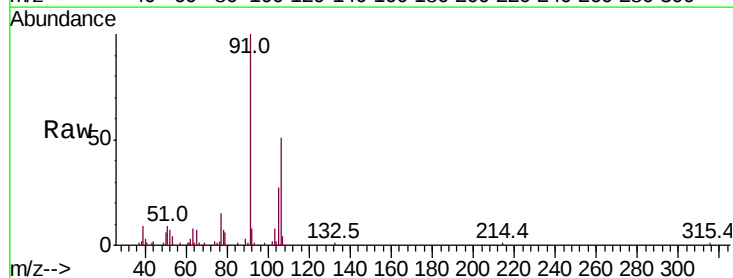
Acq: 07 Oct 2019 14:06

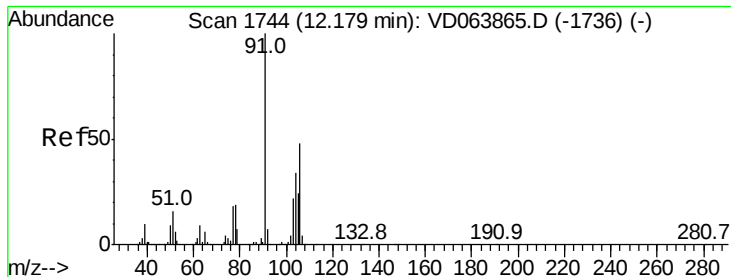
Tgt Ion: 106 Resp: 32766

Ion Ratio Lower Upper

106 100

91 197.2 154.8 232.2

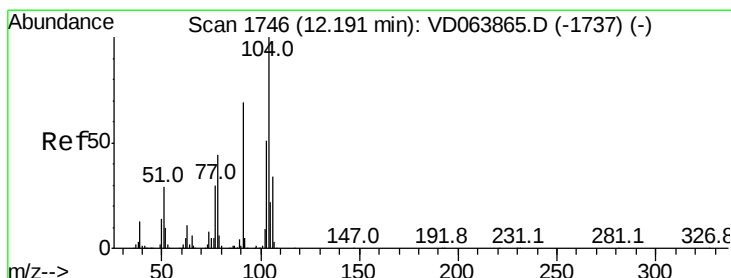
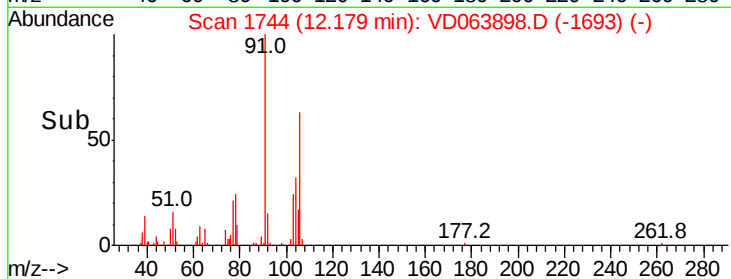
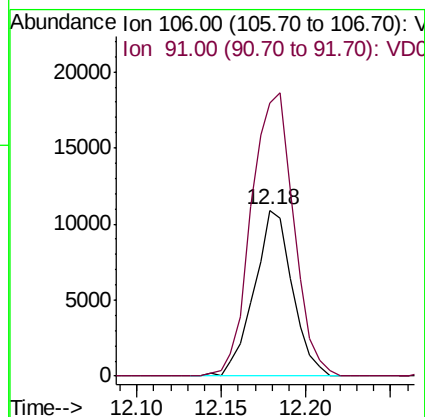
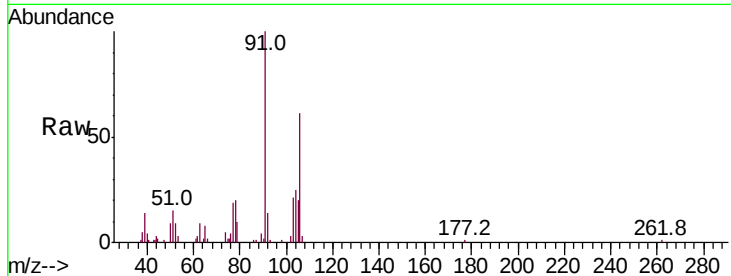




#69
o-Xylene
Concen: 4.503 ug/l
RT: 12.18 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

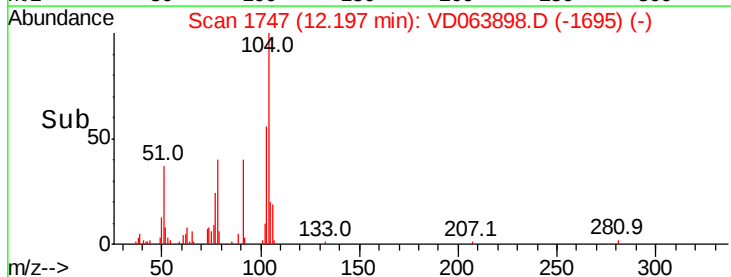
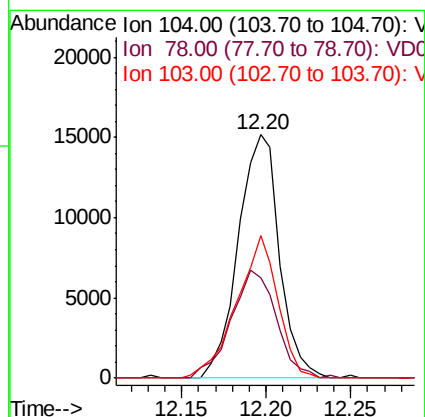
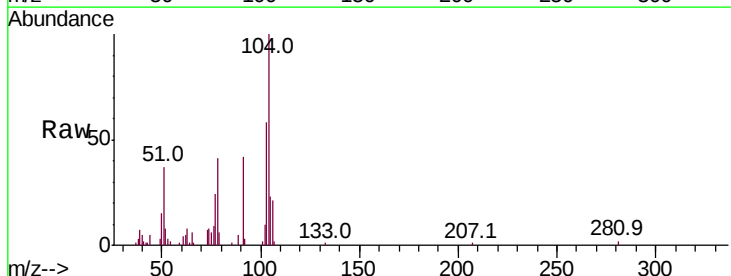
Instrument :
MSVOA_D
ClientSampled :

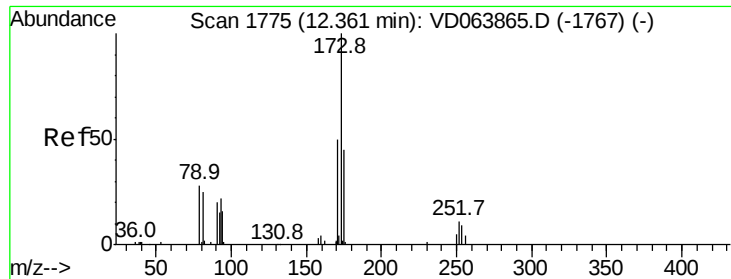
Tot Ion:106 Resp: 17153
Ion Ratio Lower Upper
106 100
91 189.1 103.9 311.7



#70
Styrene
Concen: 3.982 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion:104 Resp: 25677
Ion Ratio Lower Upper
104 100
78 49.1 37.0 55.4
103 58.6 44.2 66.4

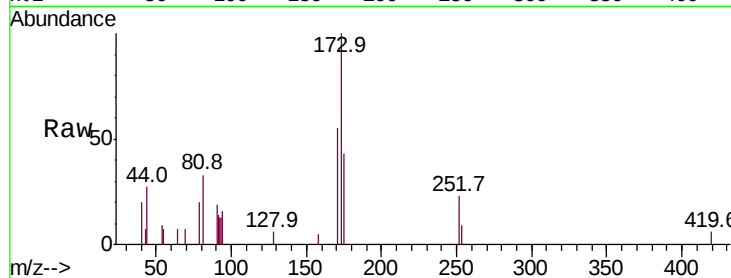




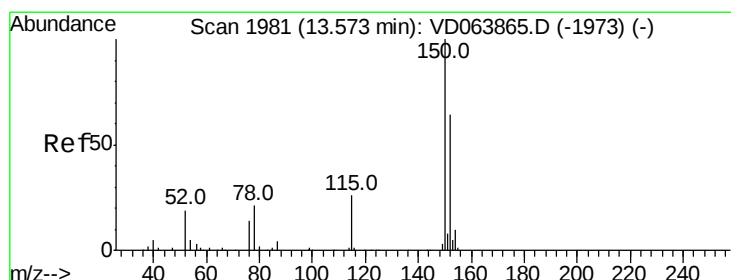
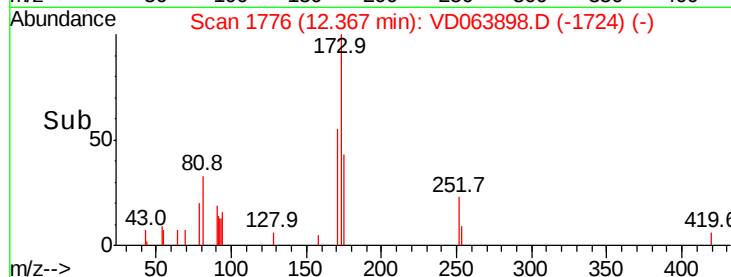
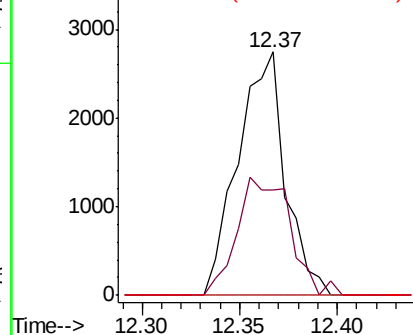
#71
Bromoform
Concen: 4.085 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:173 Resp: 4617
Ion Ratio Lower Upper
173 100
175 54.4 24.6 74.0
254 0.0 0.0 0.0

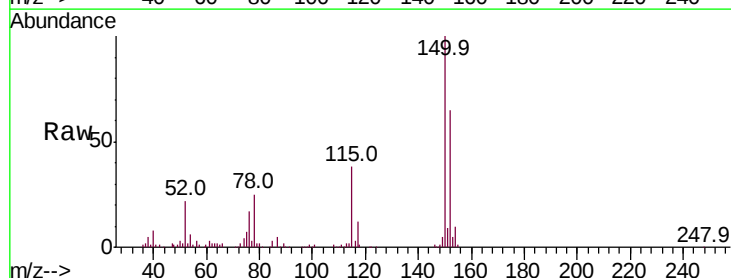


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

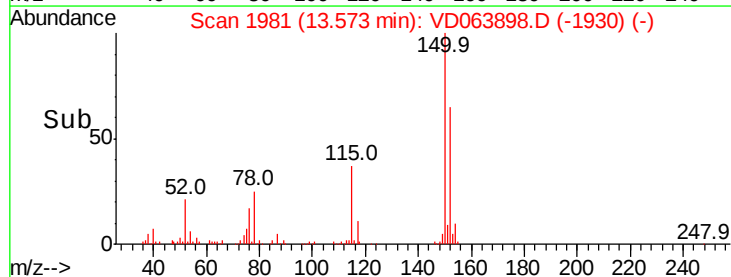
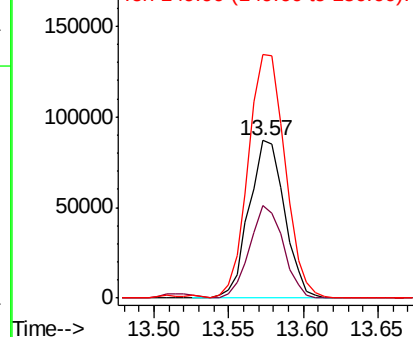


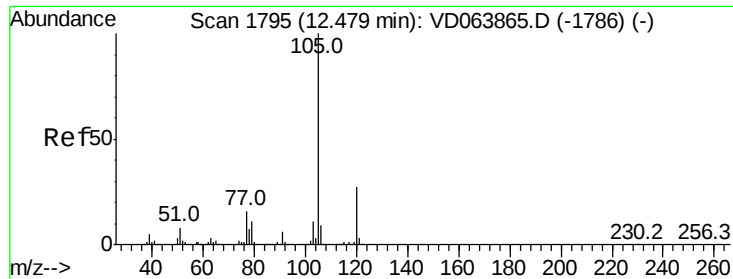
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1981
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion:152 Resp: 143128
Ion Ratio Lower Upper
152 100
115 55.5 25.9 77.7
150 160.0 0.0 344.2



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: 4.409 ug/l

RT: 12.48 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

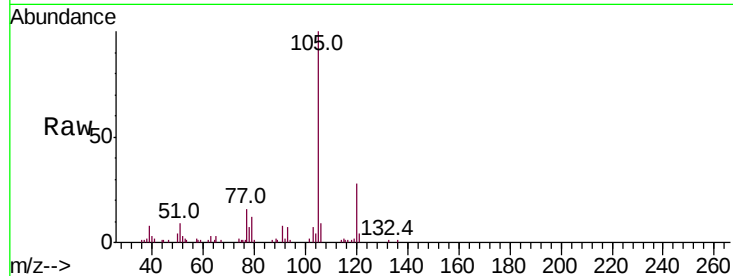
ClientSampleId :

Tot Ion:105 Resp: 42418

Ion Ratio Lower Upper

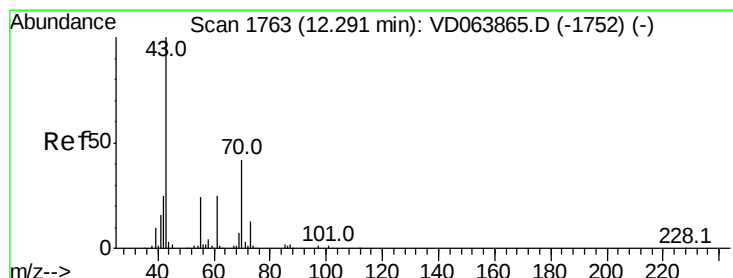
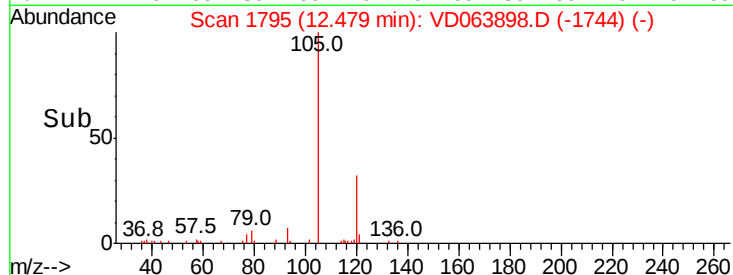
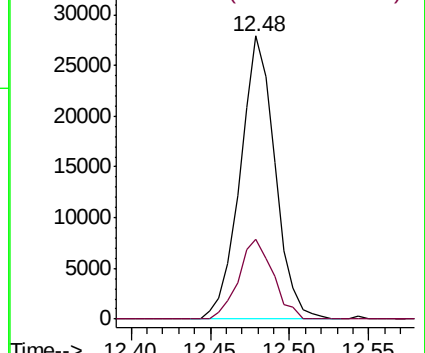
105 100

120 27.9 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 4.306 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion: 43 Resp: 8921

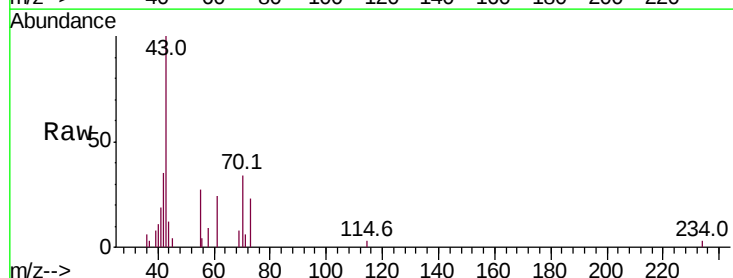
Ion Ratio Lower Upper

43 100

70 43.0 35.8 53.6

55 25.6 19.4 29.0

61 24.1 20.4 30.6

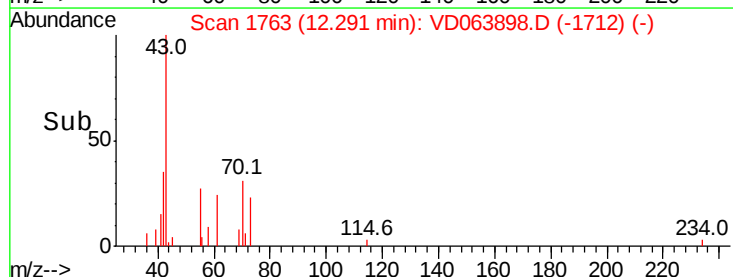
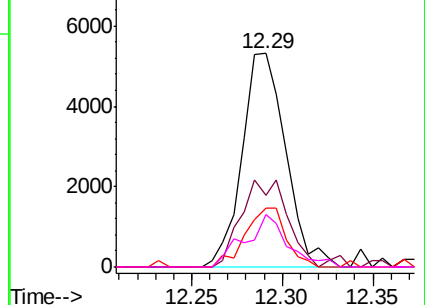


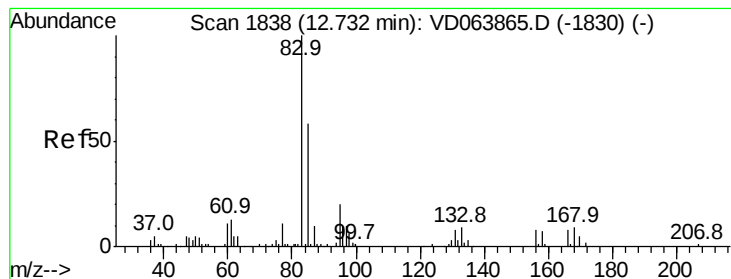
Abundance Ion 43.00 (42.70 to 43.70): V

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: 4.344 ug/l

RT: 12.73 min Scan# 1837

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

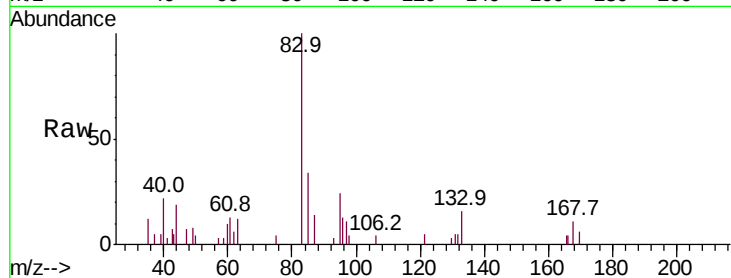
Tot Ion: 83 Resp: 7274

Ion Ratio Lower Upper

83 100

131 9.4 5.6 16.8

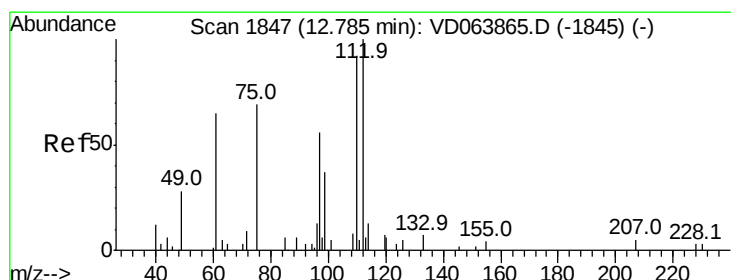
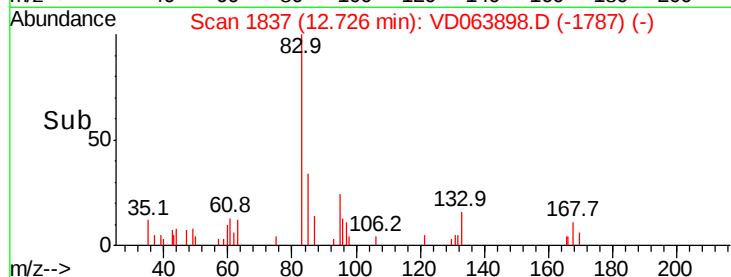
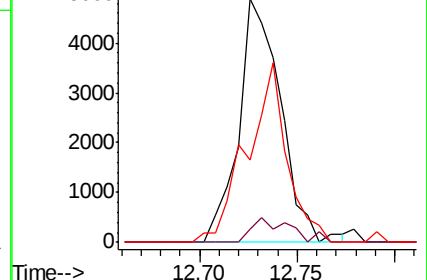
85 70.6 32.3 96.8



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: 10.171 ug/l

RT: 12.78 min Scan# 1847

Delta R.T. -0.00 min

Lab File: VD063898.D

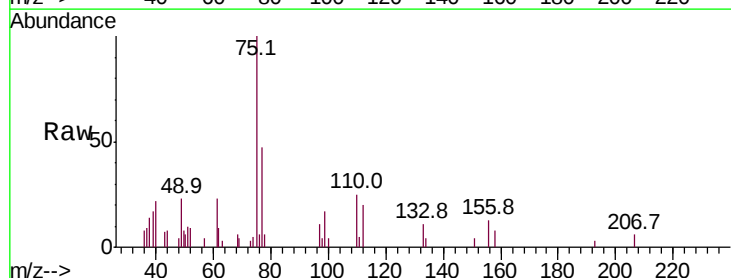
Acq: 07 Oct 2019 14:06

Tgt Ion: 75 Resp: 9750

Ion Ratio Lower Upper

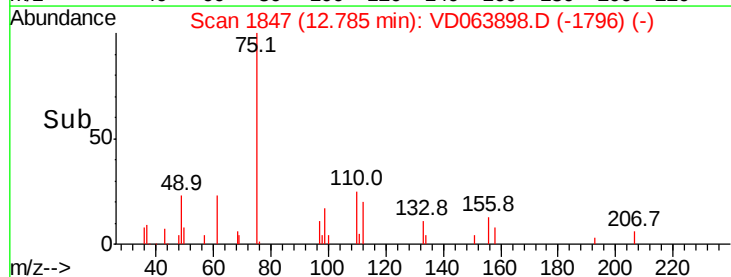
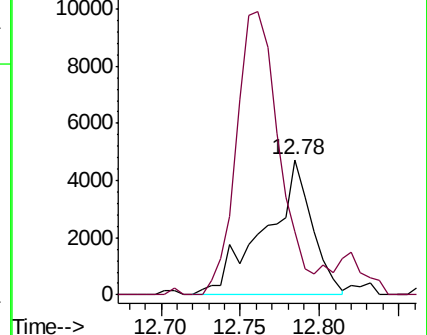
75 100

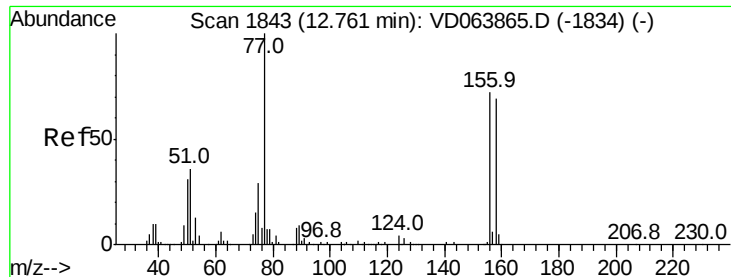
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 4.194 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampled :

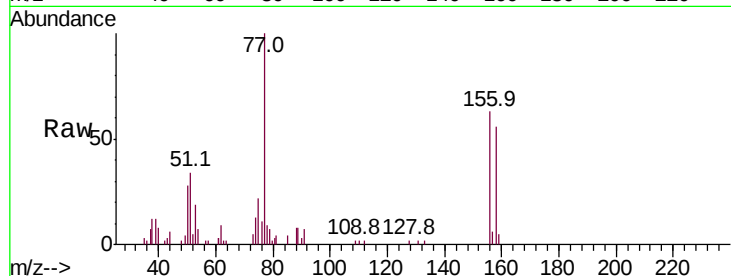
Tot Ion:156 Resp: 10055

Ion Ratio Lower Upper

156 100

77 184.6 80.3 241.0

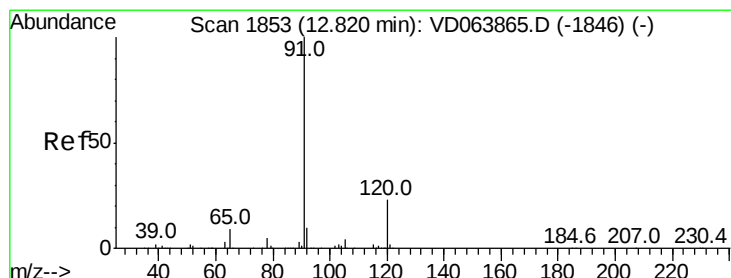
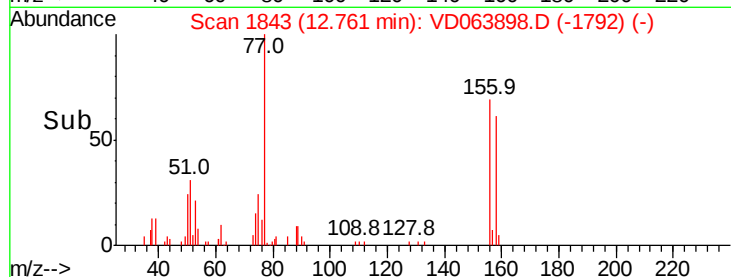
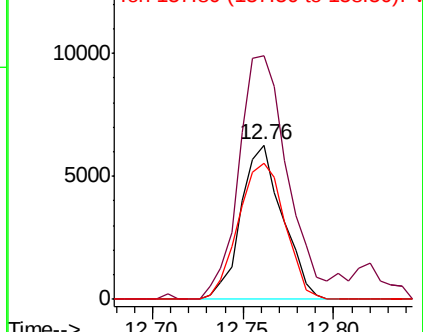
158 98.3 47.4 142.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VDC

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.463 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VD063898.D

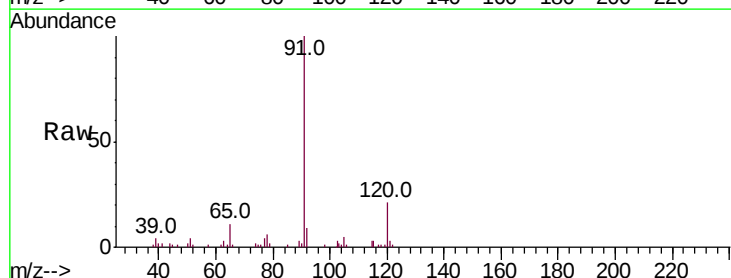
Acq: 07 Oct 2019 14:06

Tgt Ion: 91 Resp: 50402

Ion Ratio Lower Upper

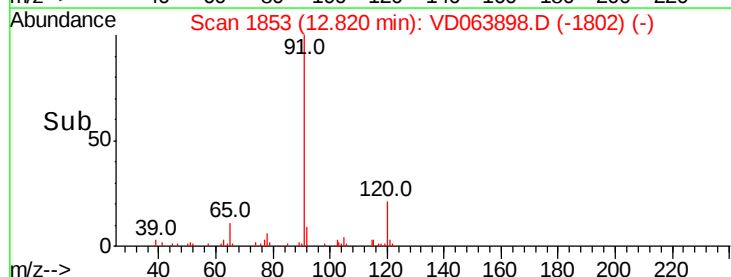
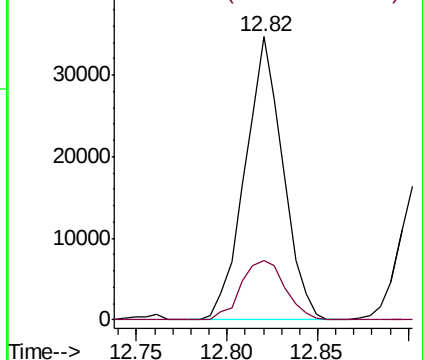
91 100

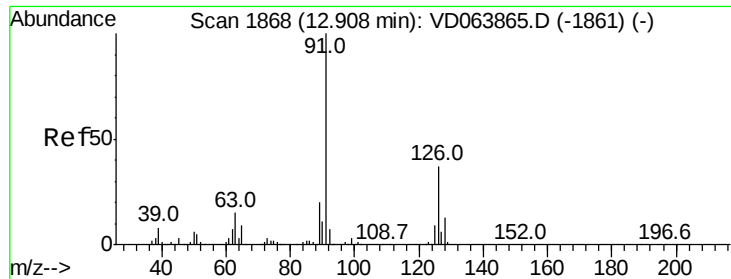
120 24.4 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

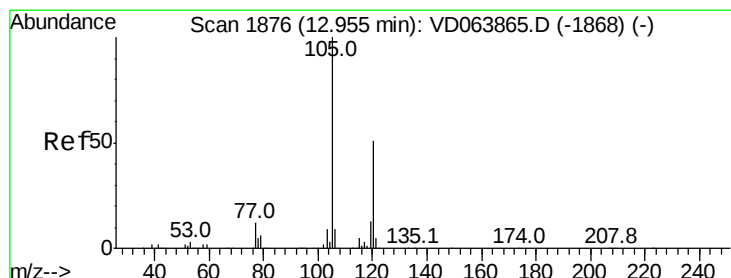
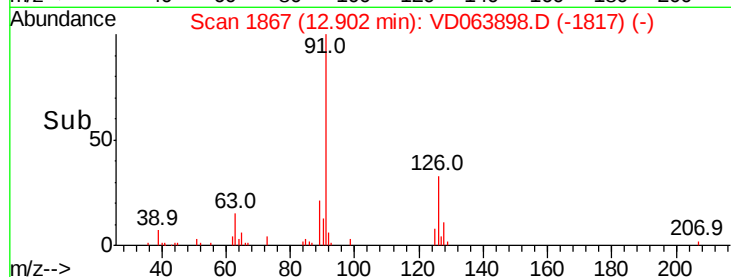
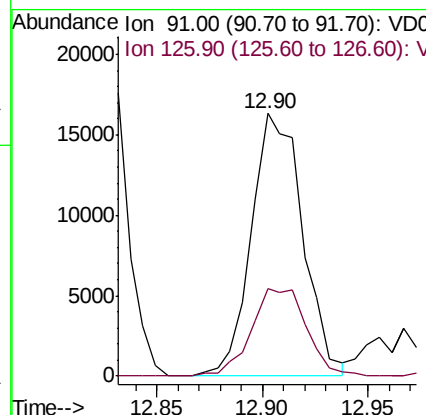
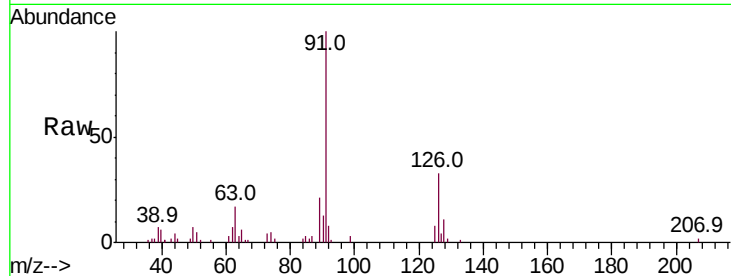




#79
 2-Chlorotoluene
 Concen: 4.439 ug/l
 RT: 12.90 min Scan# 1867
 Delta R.T. -0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

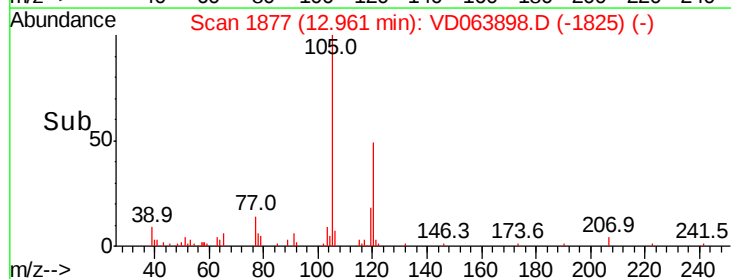
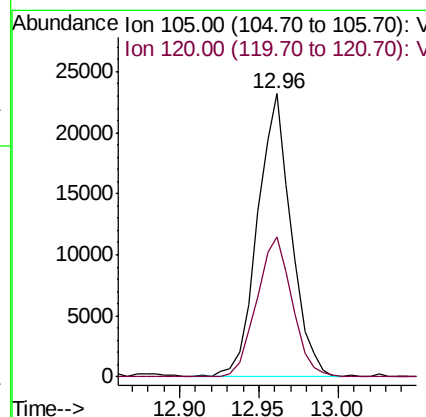
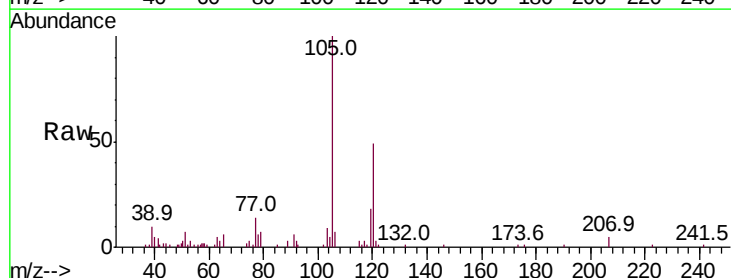
Instrument :
 MSVOA_D
 ClientSampleId :

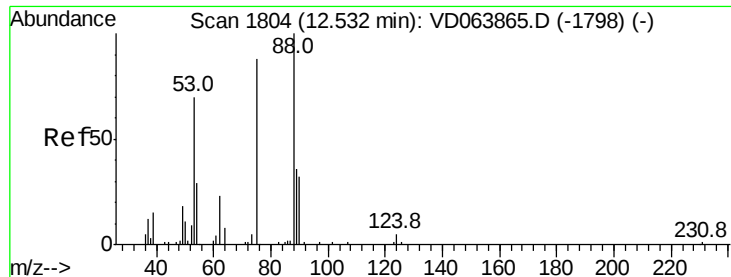
Tot Ion: 91 Resp: 27643
 Ion Ratio Lower Upper
 91 100
 126 35.8 18.4 55.2



#80
 1,3,5-Trimethylbenzene
 Concen: 4.260 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Tgt Ion:105 Resp: 34194
 Ion Ratio Lower Upper
 105 100
 120 52.2 25.9 77.8

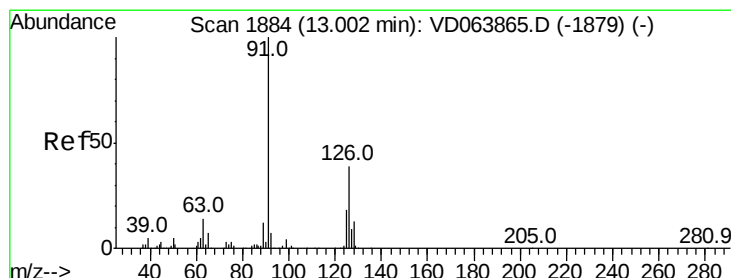
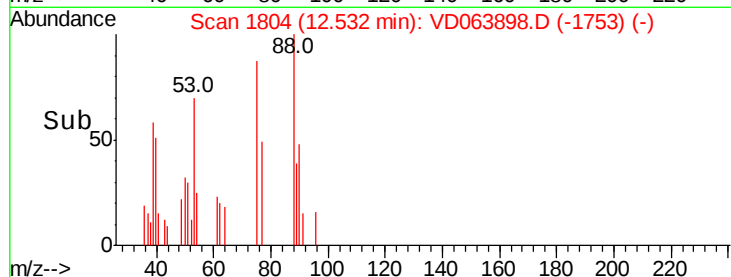
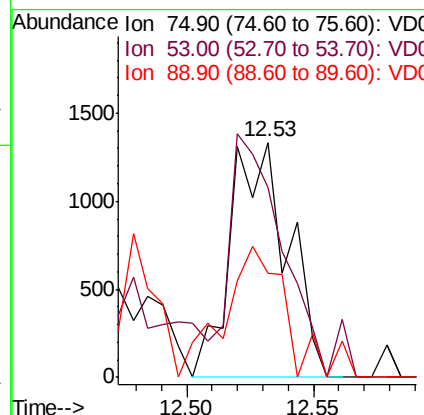
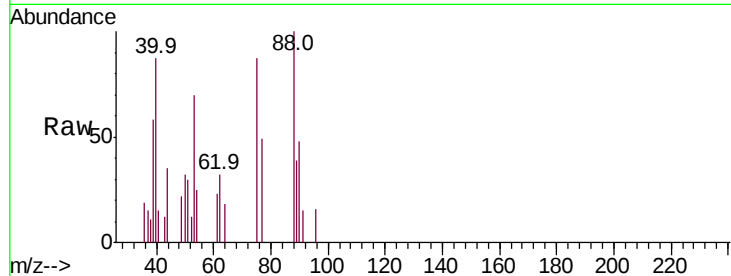




#81
trans-1,4-Dichloro-2-butene
Concen: 3.871 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

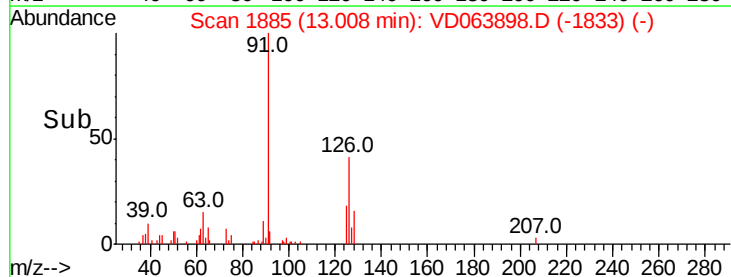
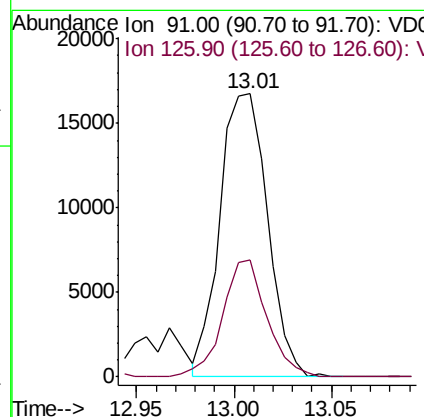
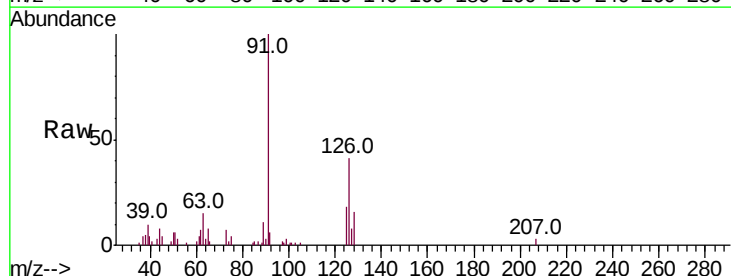
Instrument :
MSVOA_D
ClientSampled :

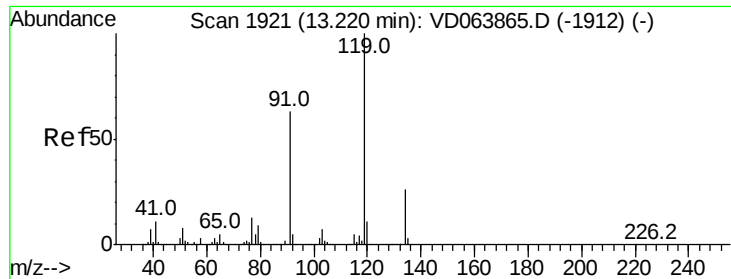
Tot Ion: 75 Resp: 2097
Ion Ratio Lower Upper
75 100
53 93.2 75.0 112.6
89 61.5 38.2 57.4#



#82
4-Chlorotoluene
Concen: 4.281 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 91 Resp: 28280
Ion Ratio Lower Upper
91 100
126 38.6 18.6 55.8

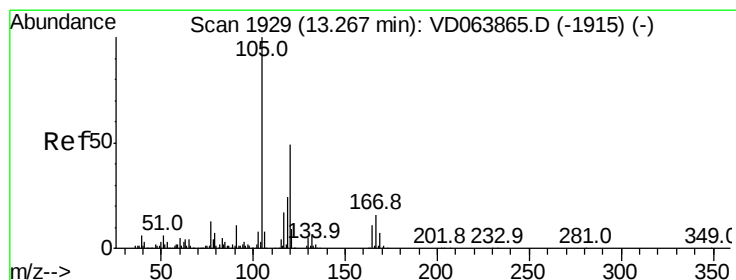
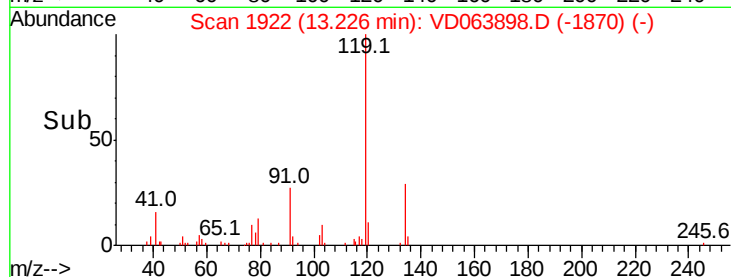
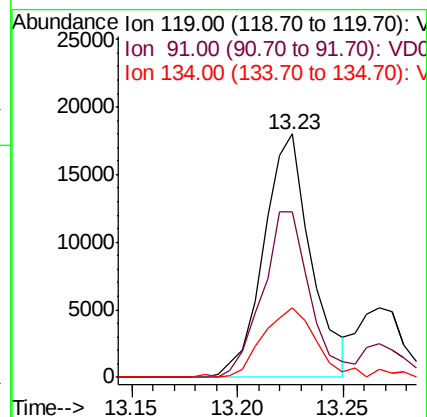
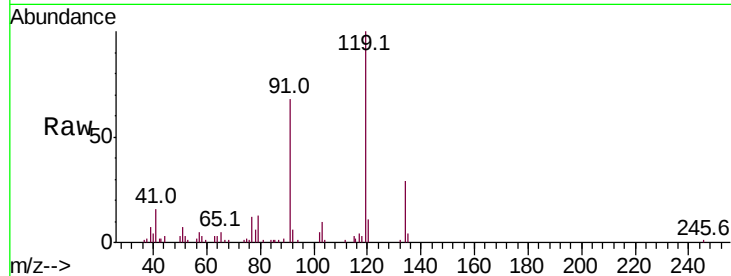




#83
tert-Butylbenzene
Concen: 3.925 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

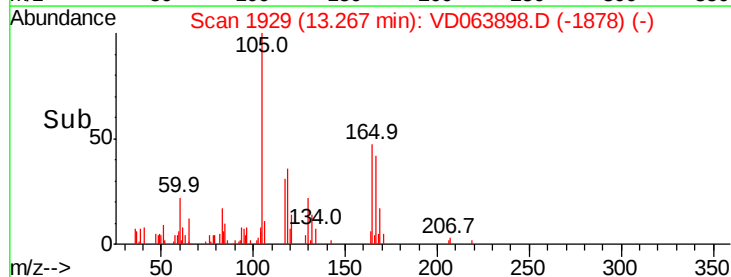
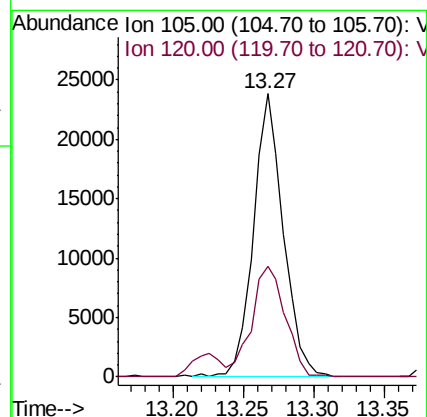
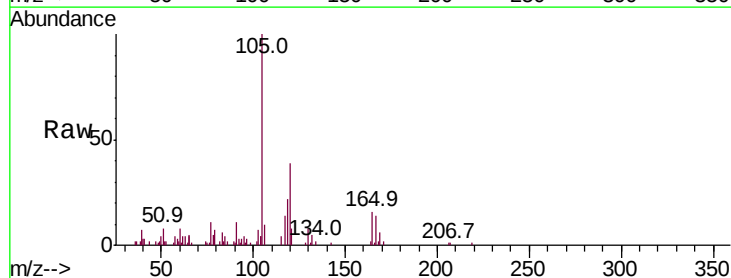
Instrument :
MSVOA_D
ClientSampleID :

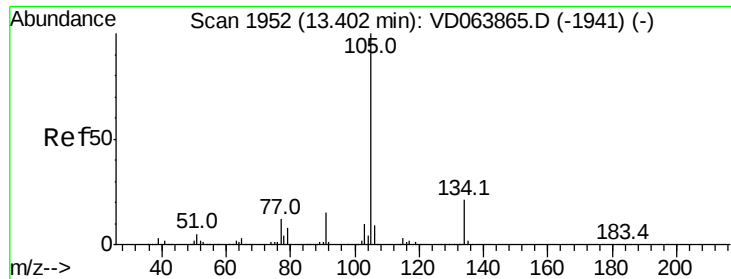
Tot Ion:119 Resp: 28038
Ion Ratio Lower Upper
119 100
91 68.6 30.0 90.0
134 32.0 13.0 38.9



#84
1,2,4-Trimethylbenzene
Concen: 4.279 ug/l
RT: 13.27 min Scan# 1929
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion:105 Resp: 35409
Ion Ratio Lower Upper
105 100
120 44.2 23.8 71.5





#85

sec-Butylbenzene

Concen: 4.430 ug/l

RT: 13.40 min Scan# 1952

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

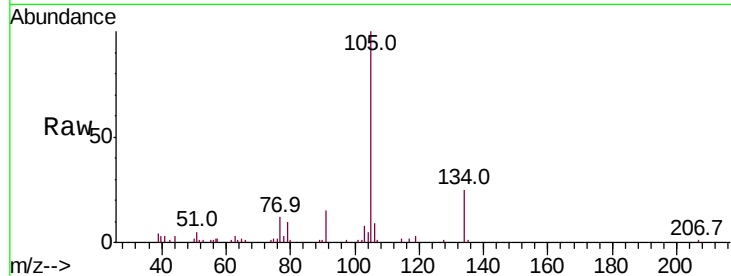
ClientSampleId :

Tot Ion:105 Resp: 42742

Ion Ratio Lower Upper

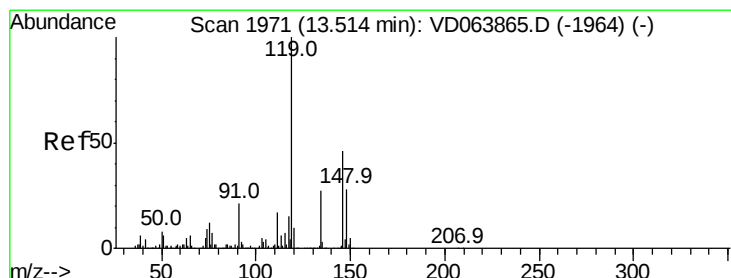
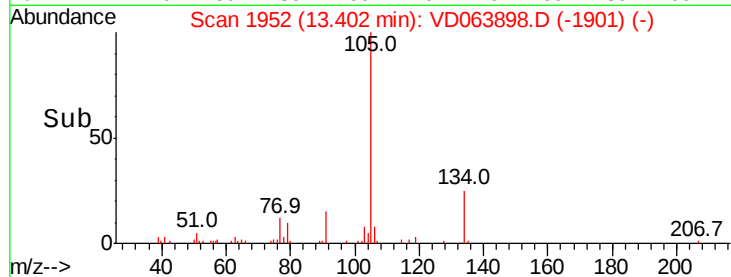
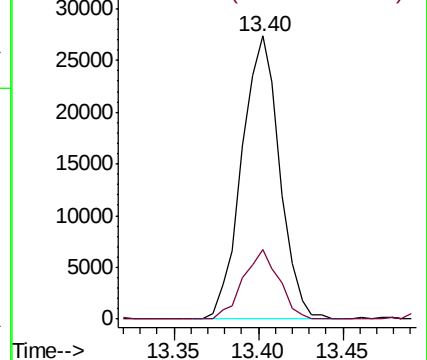
105 100

134 23.1 10.6 31.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.211 ug/l

RT: 13.51 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

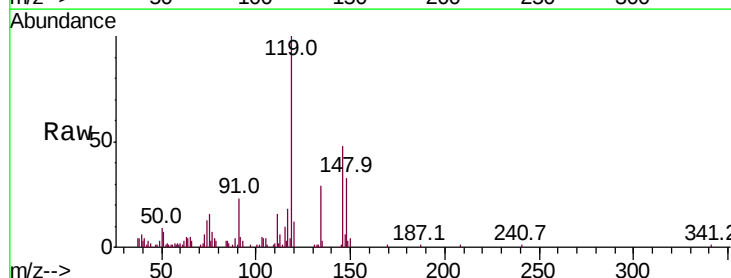
Tgt Ion:119 Resp: 38441

Ion Ratio Lower Upper

119 100

134 25.4 13.9 41.6

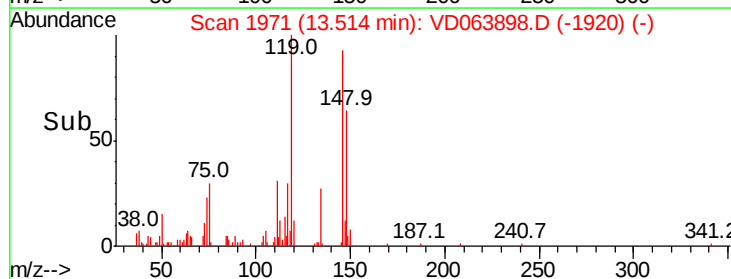
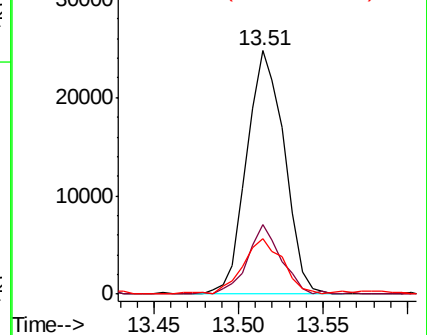
91 24.4 11.2 33.5

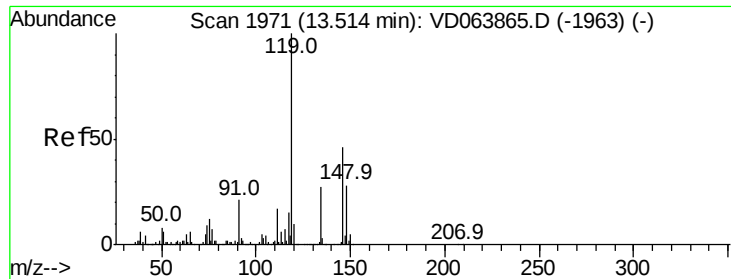


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 4.206 ug/l

RT: 13.51 min Scan# 1971

Delta R.T. -0.00 min

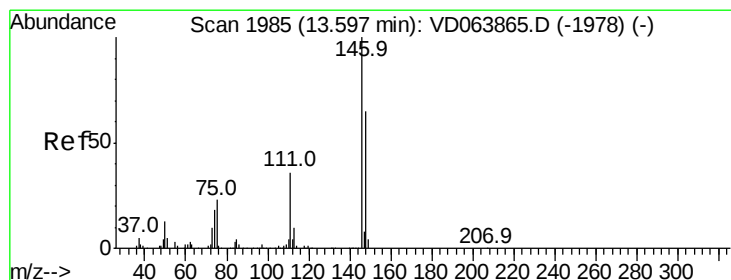
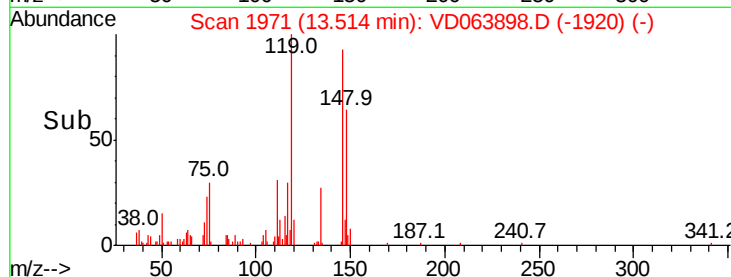
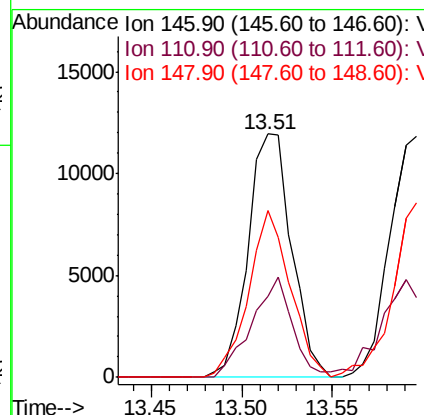
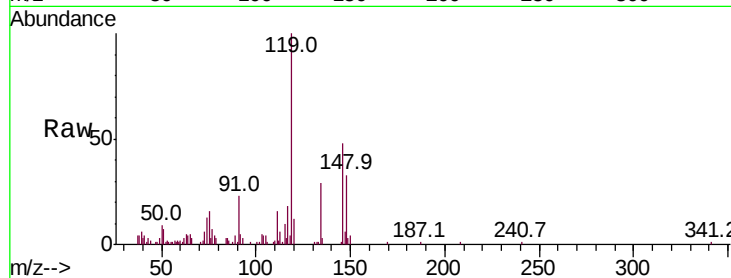
Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:146 Resp: 19922

Ion	Ratio	Lower	Upper
146	100		
111	38.5	18.3	54.9
148	65.7	31.8	95.4



#88

1,4-Dichlorobenzene

Concen: 4.651 ug/l

RT: 13.60 min Scan# 1985

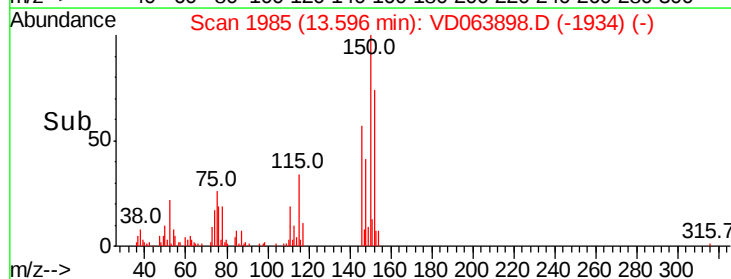
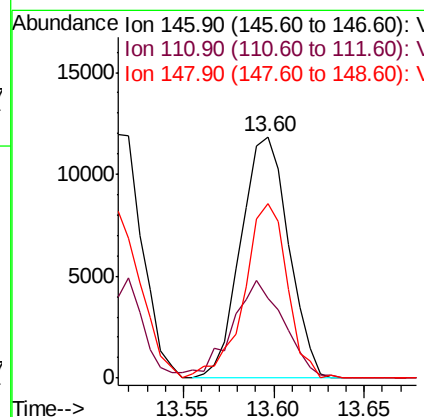
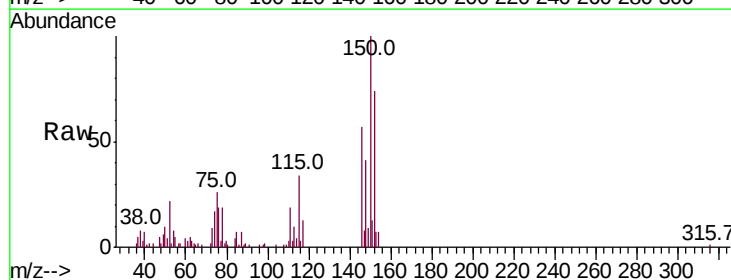
Delta R.T. -0.00 min

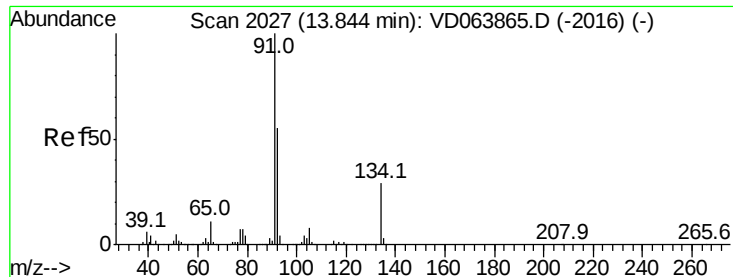
Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Tgt Ion:146 Resp: 21732

Ion	Ratio	Lower	Upper
146	100		
111	43.9	18.6	56.0
148	65.3	32.6	98.0

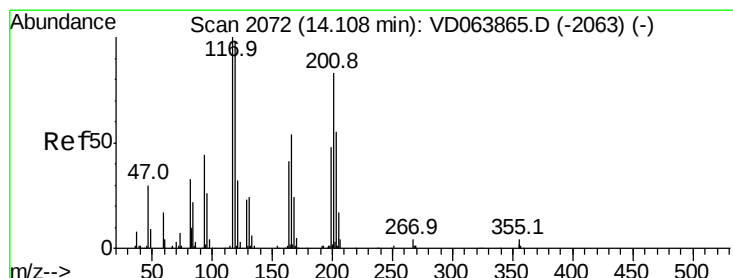
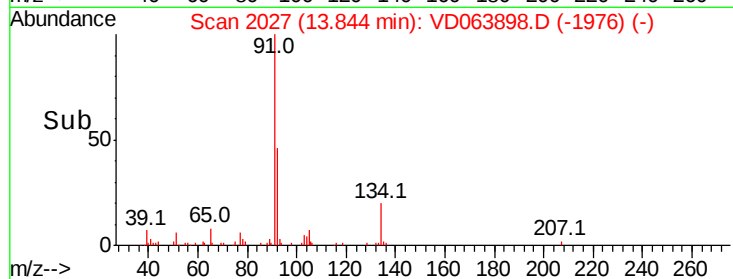
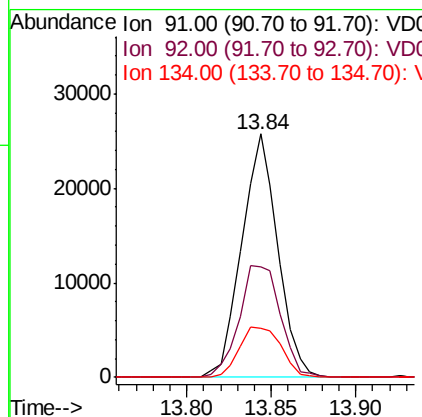
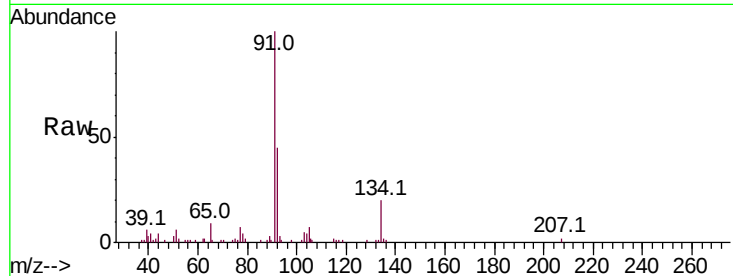




#89
n-Butylbenzene
Concen: 4.497 ug/l
RT: 13.84 min Scan# 2027
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

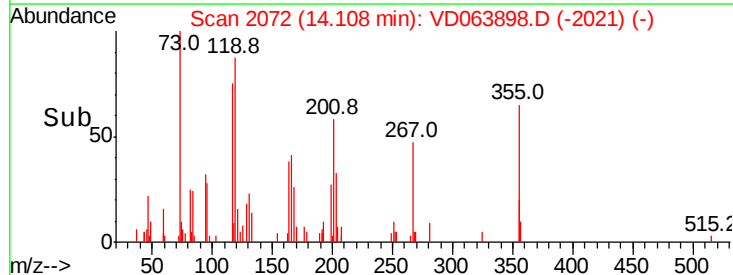
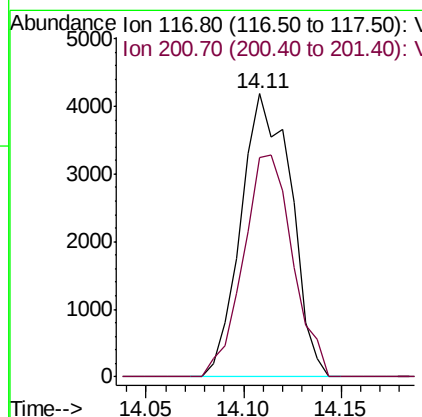
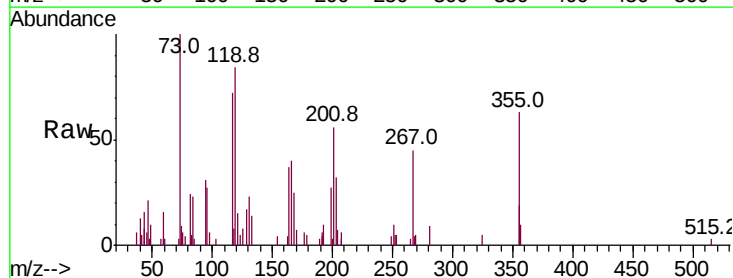
Instrument :
MSVOA_D
ClientSampleId :

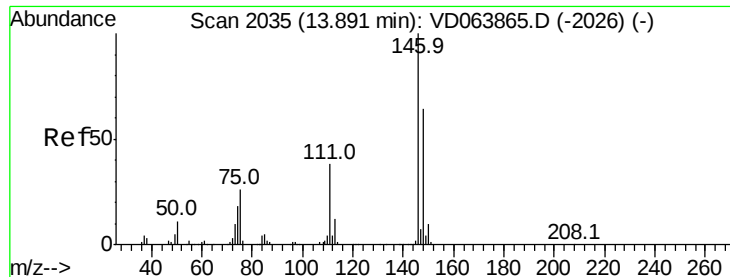
Tot Ion: 91 Resp: 38213
Ion Ratio Lower Upper
91 100
92 52.7 26.8 80.3
134 24.0 14.4 43.0



#90
Hexachloroethane
Concen: 4.531 ug/l
RT: 14.11 min Scan# 2072
Delta R.T. -0.00 min
Lab File: VD063898.D
Acq: 07 Oct 2019 14:06

Tgt Ion: 117 Resp: 7439
Ion Ratio Lower Upper
117 100
201 77.5 40.6 121.7





#91

1,2-Dichlorobenzene

Concen: 4.184 ug/l

RT: 13.88 min Scan# 2034

Delta R.T. -0.01 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

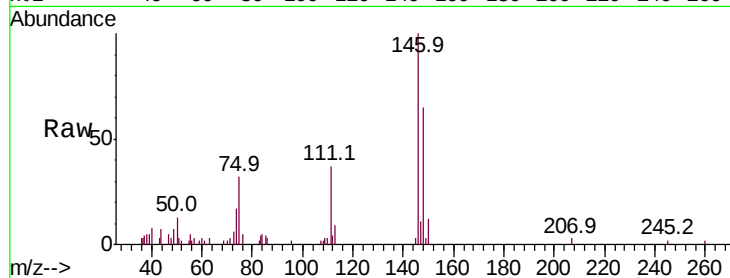
Tot Ion:146 Resp: 17078

Ion Ratio Lower Upper

146 100

111 41.2 18.6 55.6

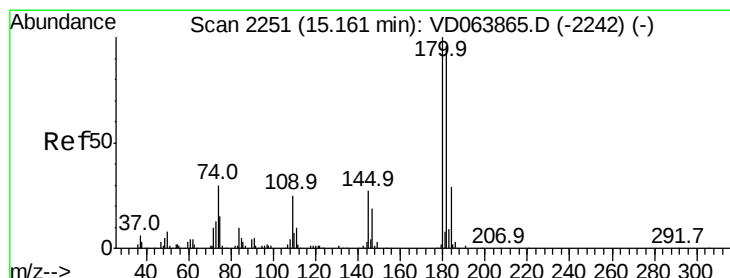
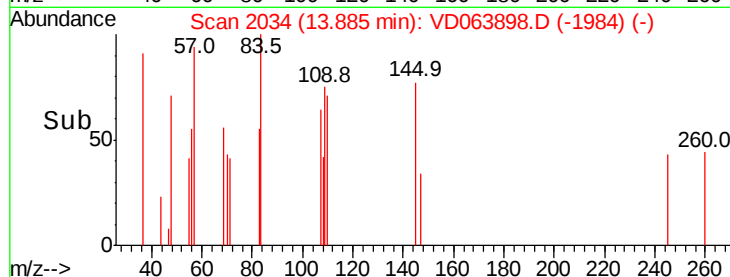
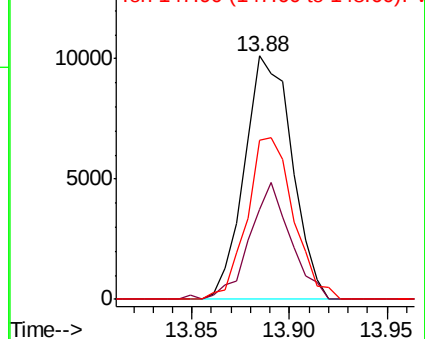
148 64.7 31.6 95.0



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



#93

1,2,4-Trichlorobenzene

Concen: 4.391 ug/l

RT: 15.16 min Scan# 2251

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

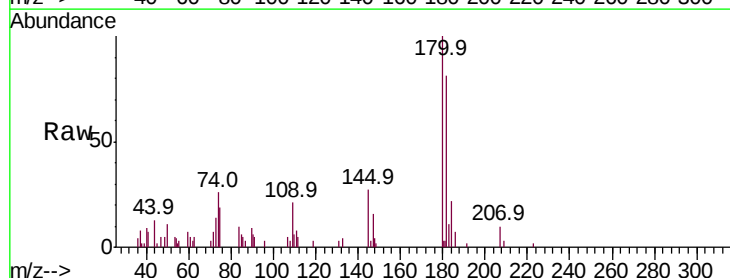
Tgt Ion:180 Resp: 13831

Ion Ratio Lower Upper

180 100

182 88.8 47.4 142.3

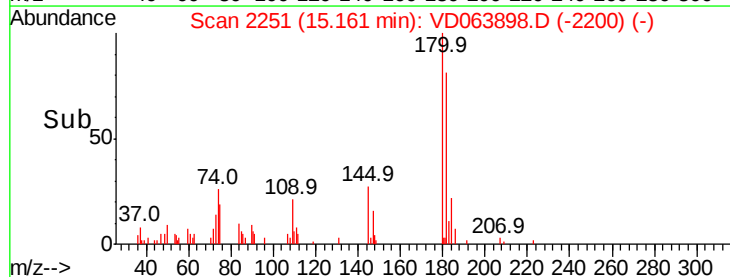
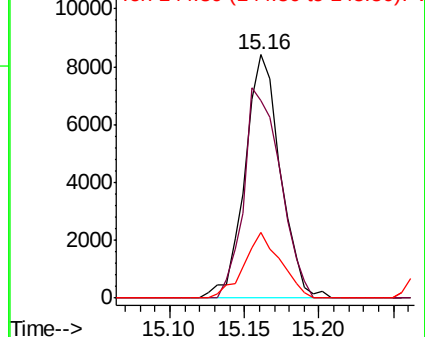
145 27.9 13.9 41.7

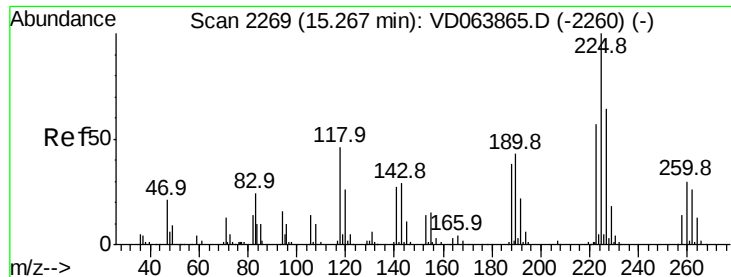


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 4.149 ug/l

RT: 15.27 min Scan# 2269

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

Instrument :

MSVOA_D

ClientSampleId :

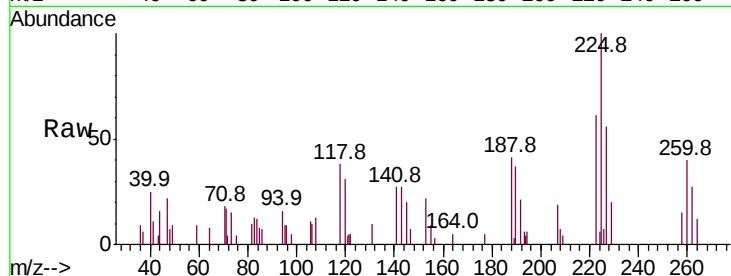
Tot Ion:225 Resp: 7212

Ion Ratio Lower Upper

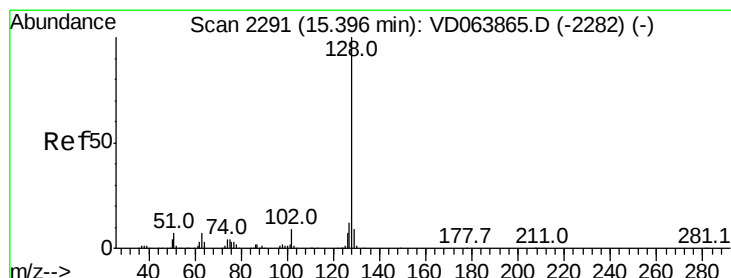
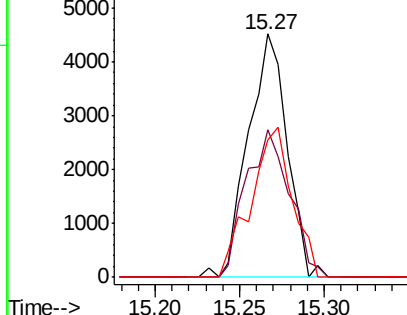
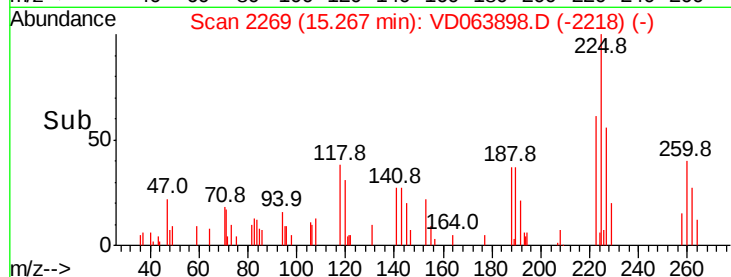
225 100

223 68.1 29.5 88.6

227 65.5 30.8 92.4



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: 4.263 ug/l

RT: 15.40 min Scan# 2291

Delta R.T. -0.00 min

Lab File: VD063898.D

Acq: 07 Oct 2019 14:06

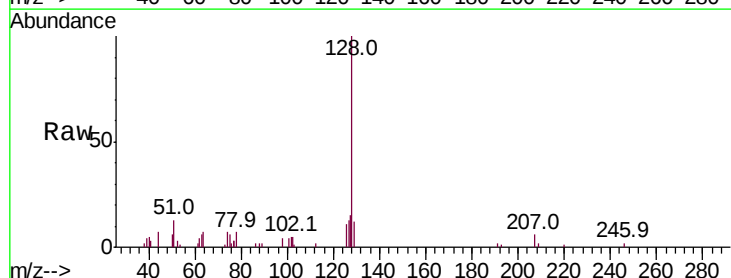
Tgt Ion:128 Resp: 22570

Ion Ratio Lower Upper

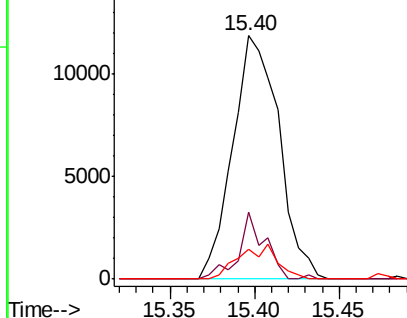
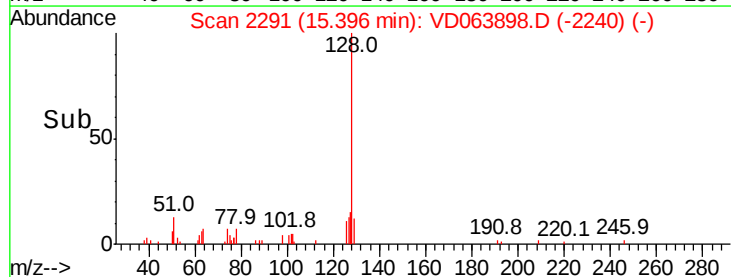
128 100

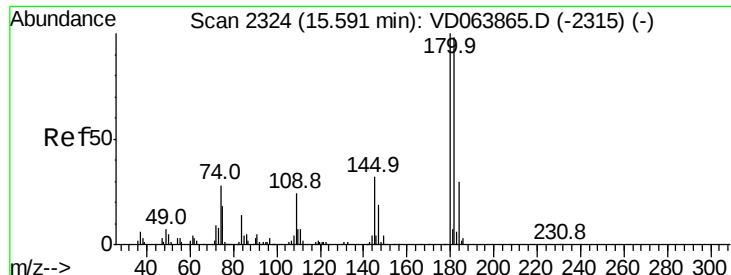
127 15.4 10.6 16.0

129 11.9 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

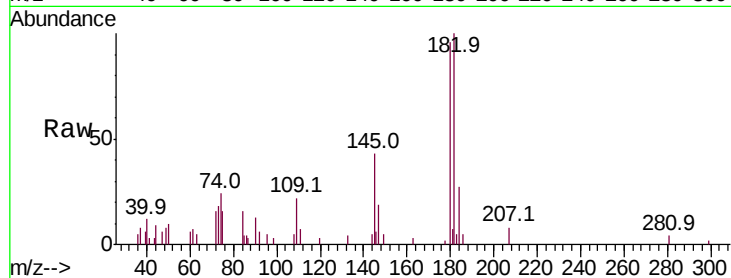




#96
 1,2,3-Trichlorobenzene
 Concen: 4.147 ug/l
 RT: 15.60 min Scan# 2325
 Delta R.T. 0.01 min
 Lab File: VD063898.D
 Acq: 07 Oct 2019 14:06

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.8	47.0	141.0
145	36.0	15.3	45.9



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

