

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD101619\
 Data File : VD063993.D
 Acq On : 16 Oct 2019 18:07
 Operator : VA/SY
 Sample : VSTDCCC050
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Oct 16 18:27:21 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	7.99	168	182919	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	287521	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	303070	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	172068	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.33	65	91751	51.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.04%	
35) Dibromofluoromethane	7.92	113	91181	51.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.78%	
50) Toluene-d8	10.34	98	380776	53.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.78%	
62) 4-Bromofluorobenzene	12.64	95	132854	53.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.22%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.99	85	52918	40.794	ug/l	92
3) Chloromethane	2.21	50	172585	49.181	ug/l	96
4) Vinyl Chloride	2.35	62	205169	48.935	ug/l	100
5) Bromomethane	2.76	94	125954	46.729	ug/l	98
6) Chloroethane	2.92	64	132596	47.821	ug/l	91
7) Trichlorofluoromethane	3.27	101	290404	52.388	ug/l	99
8) Diethyl Ether	3.70	74	41129	46.226	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.09	101	64509	42.041	ug/l	93
10) Methyl Iodide	4.29	142	79346	37.528	ug/l	99
11) Tert butyl alcohol	5.26	59	26349	211.746	ug/l	99
12) 1,1-Dichloroethene	4.06	96	62268	40.618	ug/l	93
13) Acrolein	3.92	56	29151	183.276	ug/l	92
14) Allyl chloride	4.71	41	113741	44.626	ug/l	99
15) Acrylonitrile	5.43	53	97316	248.083	ug/l	99
16) Acetone	4.17	43	93148	200.900	ug/l	92
17) Carbon Disulfide	4.40	76	208150	37.352	ug/l	97
18) Methyl Acetate	4.73	43	45554	50.233	ug/l	96
19) Methyl tert-butyl Ether	5.48	73	179399	45.192	ug/l	97
20) Methylene Chloride	4.96	84	93205	45.004	ug/l	95
21) trans-1,2-Dichloroethene	5.47	96	90854	47.607	ug/l	98
22) Diisopropyl ether	6.37	45	253410	48.683	ug/l	97
23) Vinyl Acetate	6.31	43	757913	244.758	ug/l	98
24) 1,1-Dichloroethane	6.27	63	154007	48.033	ug/l	95
25) 2-Butanone	7.23	43	129454	235.594	ug/l	95
26) 2,2-Dichloropropane	7.21	77	131487	45.335	ug/l	100
27) cis-1,2-Dichloroethene	7.21	96	103313	47.828	ug/l	98
28) Bromochloromethane	7.56	49	70217	57.320	ug/l	98
29) Tetrahydrofuran	7.57	42	74294	231.647	ug/l	98
30) Chloroform	7.71	83	171344	49.203	ug/l	94
31) Cyclohexane	7.99	56	140232	53.152	ug/l	95
32) 1,1,1-Trichloroethane	7.90	97	144578	48.399	ug/l	98
36) 1,1-Dichloropropene	8.11	75	129476	49.251	ug/l	98
37) Ethyl Acetate	7.30	43	52171	49.447	ug/l	96
38) Carbon Tetrachloride	8.10	117	131128	49.360	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.36	83	159970	49.490	ug/l	95
40) Benzene	8.35	78	374268	49.680	ug/l	98
41) Methacrylonitrile	7.53	41	32819	53.846	ug/l #	83
42) 1,2-Dichloroethane	8.43	62	103963	47.707	ug/l	100
43) Isopropyl Acetate	8.46	43	101752	46.153	ug/l	98
44) Trichloroethene	9.11	130	103902	47.829	ug/l	86
45) 1,2-Dichloropropane	9.39	63	89824	48.713	ug/l	92
46) Dibromomethane	9.48	93	52832	50.309	ug/l	97
47) Bromodichloromethane	9.67	83	132331	48.943	ug/l	99
48) Methyl methacrylate	9.46	41	45848	43.403	ug/l	93
49) 1,4-Dioxane	9.47	88	15273	1065.466	ug/l #	88
51) 4-Methyl-2-Pentanone	10.23	43	281525	246.220	ug/l	97
52) Toluene	10.41	92	261916	50.645	ug/l	99
53) t-1,3-Dichloropropene	10.63	75	127751	48.420	ug/l	94
54) cis-1,3-Dichloropropene	10.10	75	148966	49.050	ug/l	92
55) 1,1,2-Trichloroethane	10.80	97	76823	51.810	ug/l	92
56) Ethyl methacrylate	10.67	69	91639	48.803	ug/l	96
57) 1,3-Dichloropropane	10.95	76	128162	50.518	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.94	63	215238	266.675	ug/l	99
59) 2-Hexanone	10.99	43	206116	249.205	ug/l	98
60) Dibromochloromethane	11.14	129	99385	51.484	ug/l	96
61) 1,2-Dibromoethane	11.25	107	73549	51.165	ug/l	99
64) Tetrachloroethene	10.88	164	98845	47.775	ug/l	94
65) Chlorobenzene	11.67	112	293849	48.279	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.74	131	108456	48.359	ug/l	100
67) Ethyl Benzene	11.75	91	525238	47.857	ug/l	97
68) m/p-Xylenes	11.86	106	419582	99.048	ug/l	99
69) o-Xylene	12.18	106	198136	48.847	ug/l	96
70) Styrene	12.20	104	345269	50.281	ug/l	99
71) Bromoform	12.36	173	61170	50.822	ug/l #	97
73) Isopropylbenzene	12.48	105	531686	45.965	ug/l	98
74) N-amyl acetate	12.29	43	105305	42.283	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	89271	44.350	ug/l	99
76) 1,2,3-Trichloropropane	12.79	75	113045	98.090	ug/l #	100
77) Bromobenzene	12.76	156	132173	45.863	ug/l	96
78) n-propylbenzene	12.83	91	634914	46.762	ug/l	100
79) 2-Chlorotoluene	12.91	91	337242	45.046	ug/l	97
80) 1,3,5-Trimethylbenzene	12.96	105	453412	46.984	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	26400	40.537	ug/l	98
82) 4-Chlorotoluene	13.01	91	357343	44.995	ug/l	99
83) tert-Butylbenzene	13.23	119	401331	46.729	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	462903	46.529	ug/l	99
85) sec-Butylbenzene	13.41	105	558656	48.166	ug/l	98
86) p-Isopropyltoluene	13.52	119	530128	48.302	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	273928	48.105	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	267604	47.636	ug/l	96
89) n-Butylbenzene	13.85	91	488378	47.805	ug/l	99
90) Hexachloroethane	14.11	117	94009	47.624	ug/l	99
91) 1,2-Dichlorobenzene	13.90	146	234095	47.704	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.51	75	14264	45.383	ug/l	86

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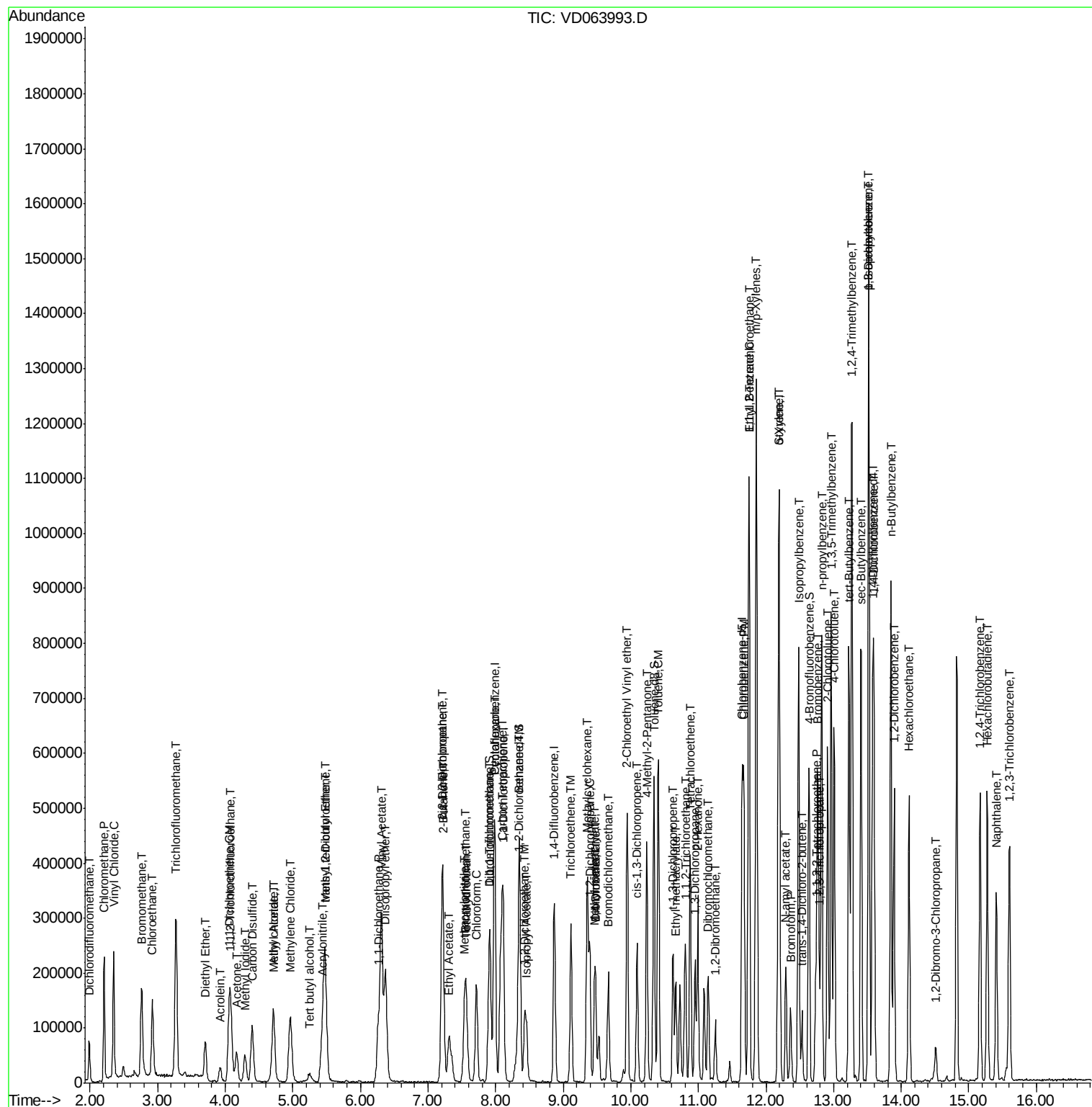
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.17	180	178050	47.022	ug/l	100
94) Hexachlorobutadiene	15.27	225	101056	48.364	ug/l	95
95) Naphthalene	15.41	128	307390	48.300	ug/l	98
96) 1,2,3-Trichlorobenzene	15.60	180	154327	47.239	ug/l	99

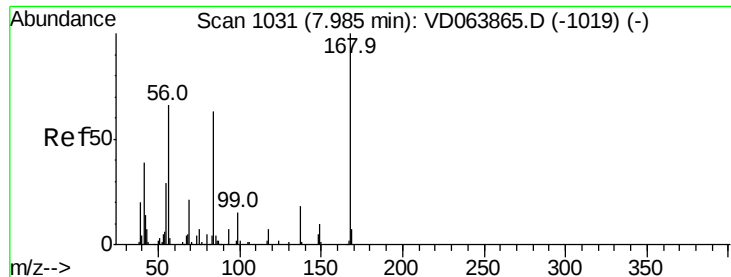
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

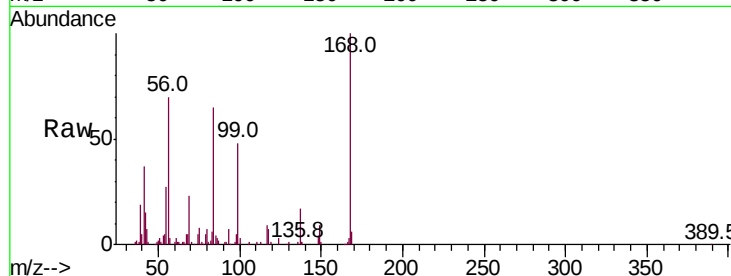
ClientSampled :

Tot Ion:168 Resp: 182919

Ion Ratio Lower Upper

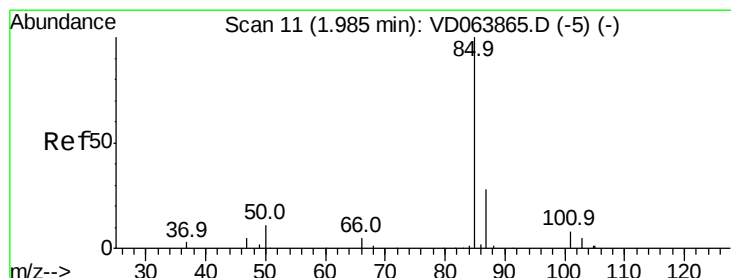
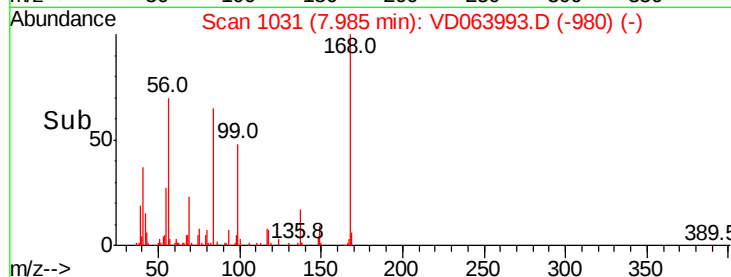
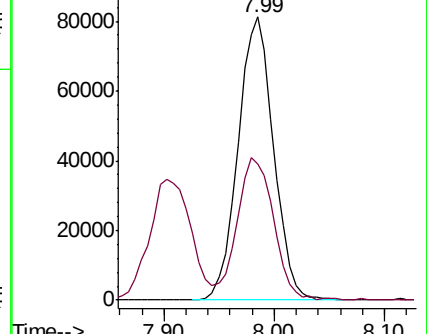
168 100

99 48.2 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: 40.794 ug/l

RT: 1.99 min Scan# 11

Delta R.T. -0.00 min

Lab File: VD063993.D

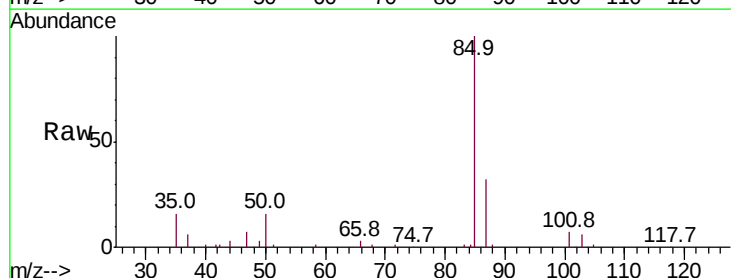
Acq: 16 Oct 2019 18:07

Tgt Ion: 85 Resp: 52918

Ion Ratio Lower Upper

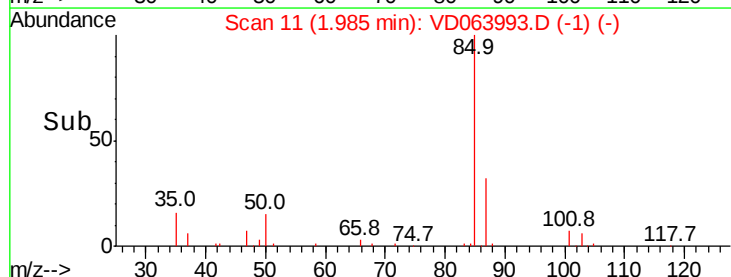
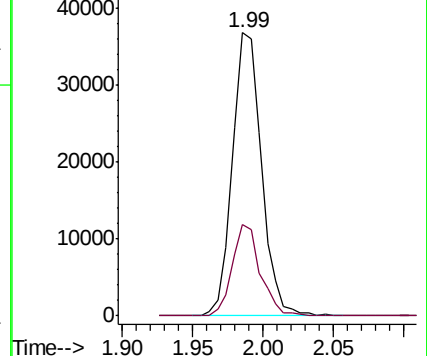
85 100

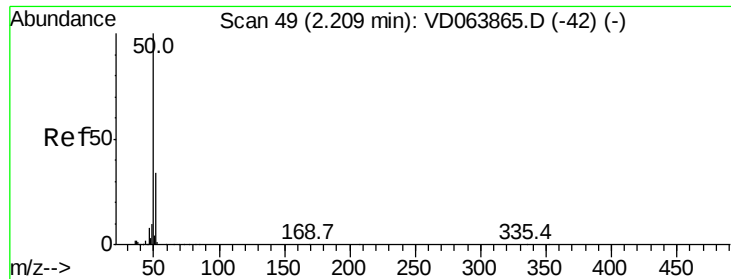
87 32.3 14.0 42.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

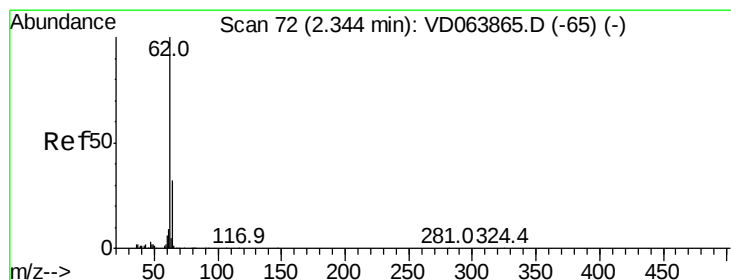
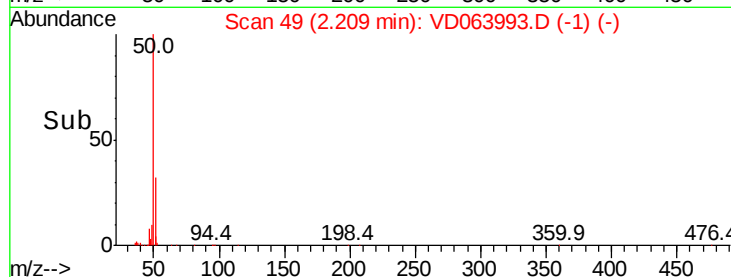
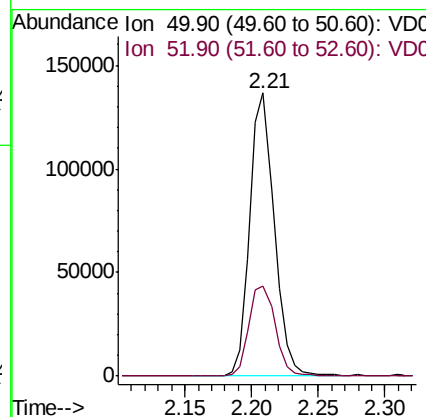
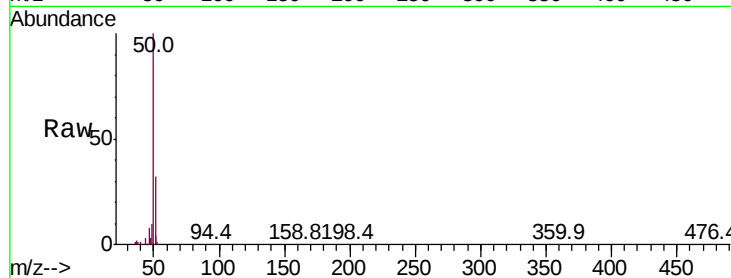




#3
Chloromethane
Concen: 49.181 ug/l
RT: 2.21 min Scan# 49
Delta R.T. 0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

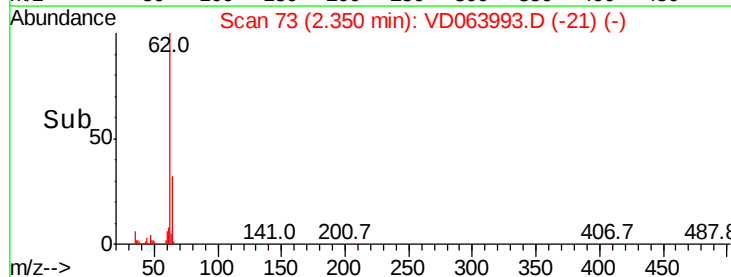
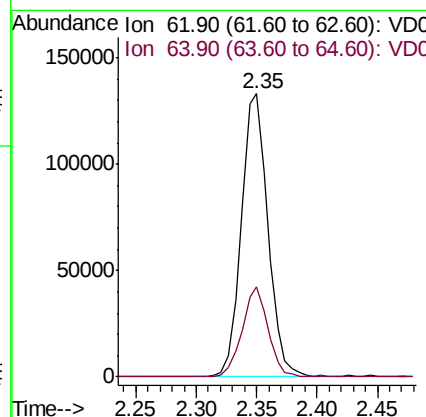
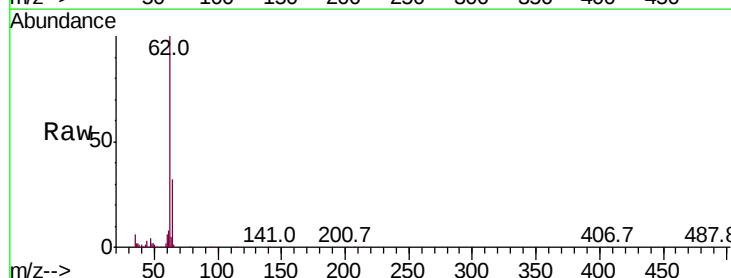
Instrument :
MSVOA_D
ClientSampleId :

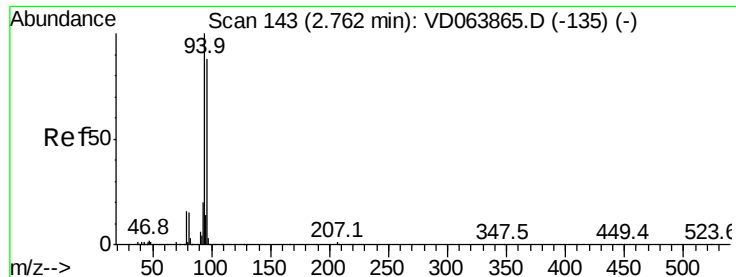
Tot Ion: 50 Resp: 172585
Ion Ratio Lower Upper
50 100
52 31.9 27.5 41.3



#4
Vinyl Chloride
Concen: 48.935 ug/l
RT: 2.35 min Scan# 73
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion: 62 Resp: 205169
Ion Ratio Lower Upper
62 100
64 31.7 25.4 38.0





#5

Bromomethane

Concen: 46.729 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

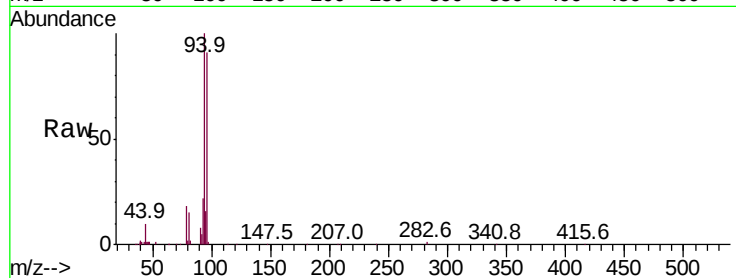
ClientSampleId :

Tot Ion: 94 Resp: 125954

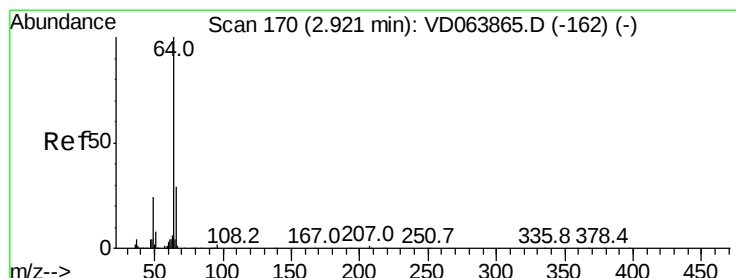
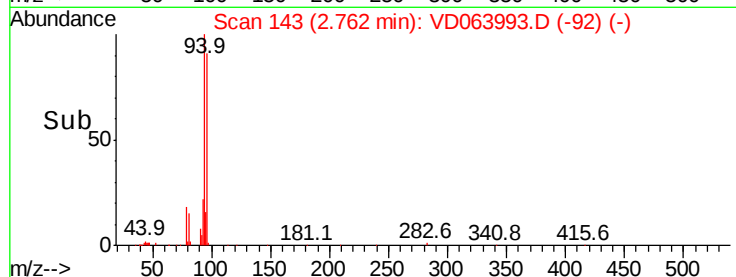
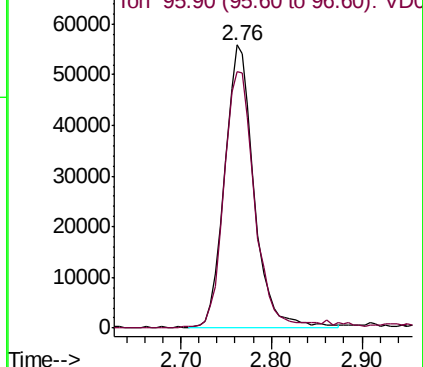
Ion Ratio Lower Upper

94 100

96 90.4 70.8 106.2



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



#6

Chloroethane

Concen: 47.821 ug/l

RT: 2.92 min Scan# 170

Delta R.T. -0.00 min

Lab File: VD063993.D

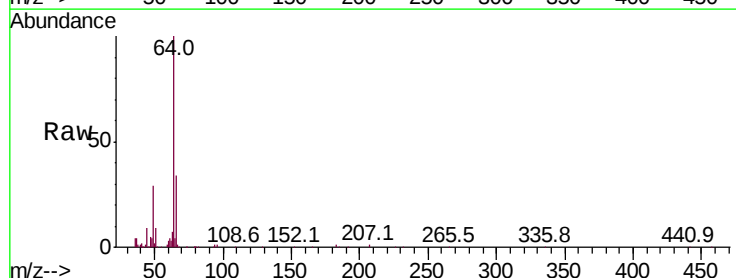
Acq: 16 Oct 2019 18:07

Tgt Ion: 64 Resp: 132596

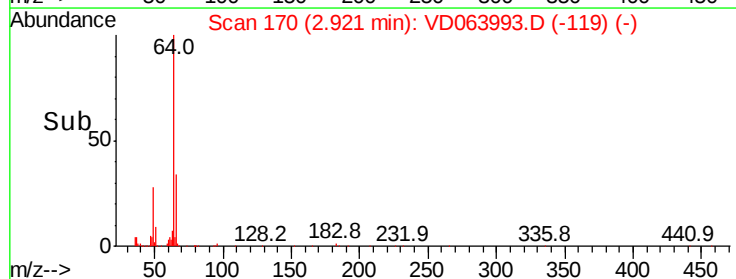
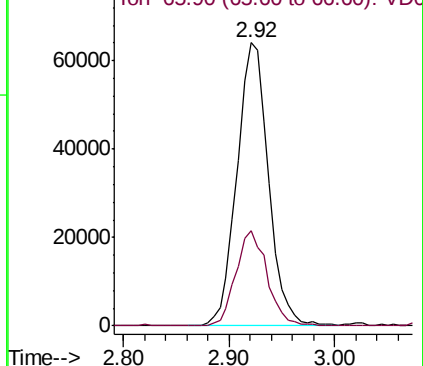
Ion Ratio Lower Upper

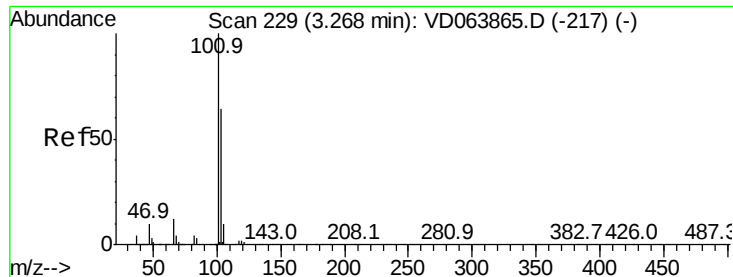
64 100

66 33.5 23.0 34.4



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



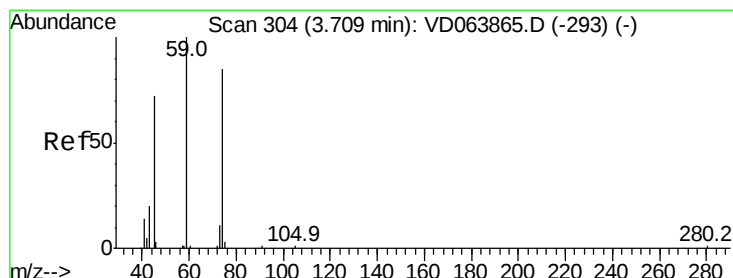
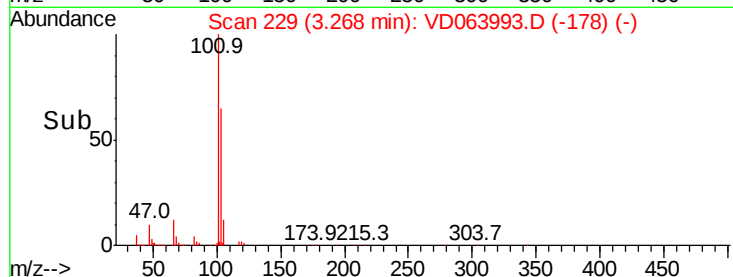
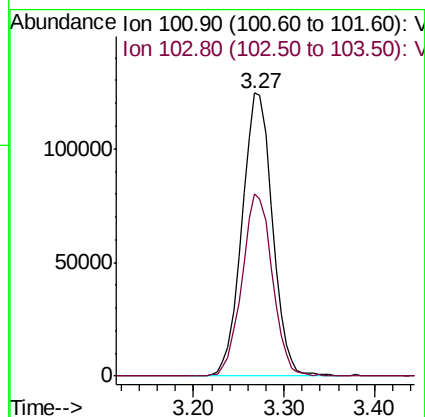
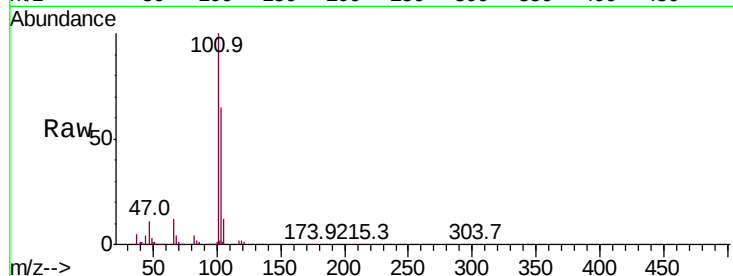


#7

Trichlorofluoromethane
Concen: 52.388 ug/l
RT: 3.27 min Scan# 229
Delta R.T. -0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Instrument :
MSVOA_D
ClientSampleId :

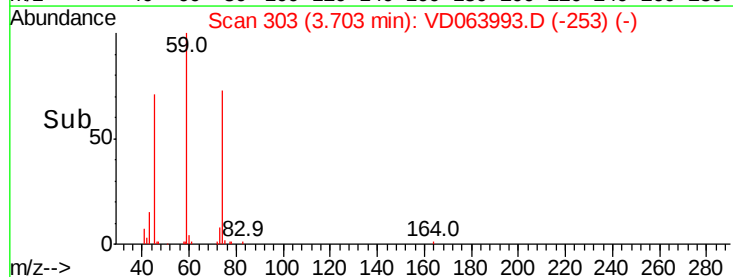
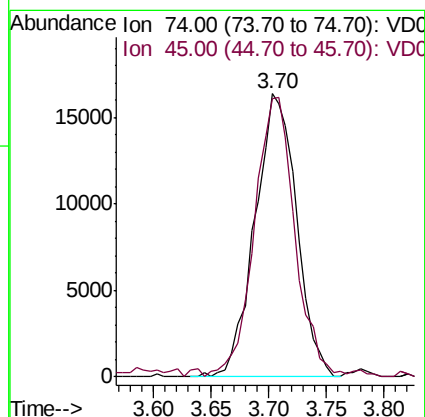
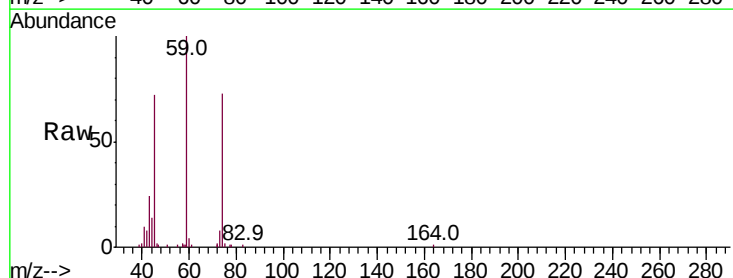
Tot Ion:101 Resp: 290404
Ion Ratio Lower Upper
101 100
103 64.4 51.1 76.7

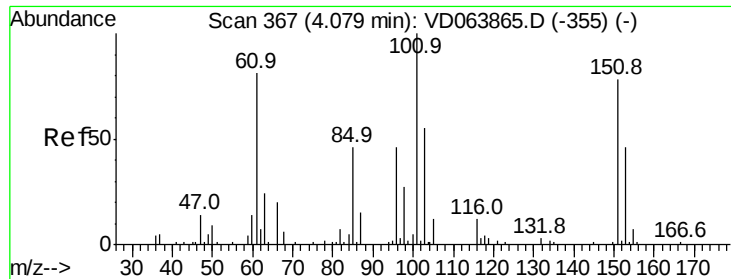


#8

Diethyl Ether
Concen: 46.226 ug/l
RT: 3.70 min Scan# 303
Delta R.T. -0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion: 74 Resp: 41129
Ion Ratio Lower Upper
74 100
45 96.4 48.1 144.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 42.041 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampled :

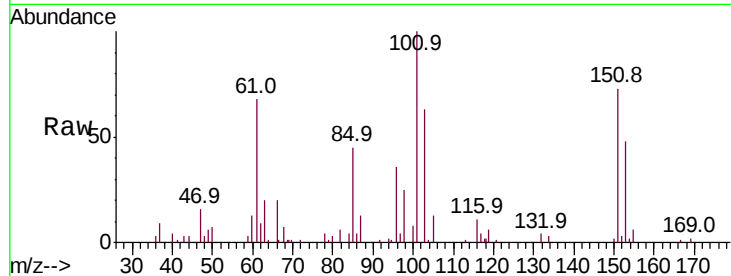
Tot Ion:101 Resp: 64509

Ion Ratio Lower Upper

101 100

85 45.3 37.5 56.3

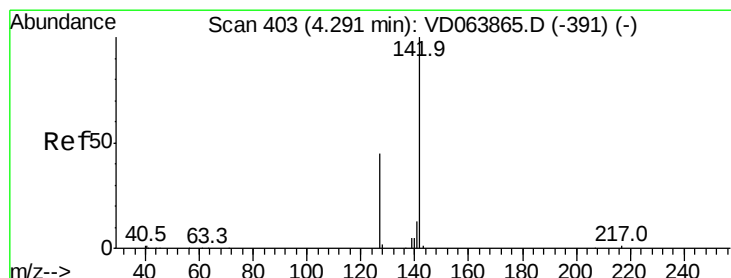
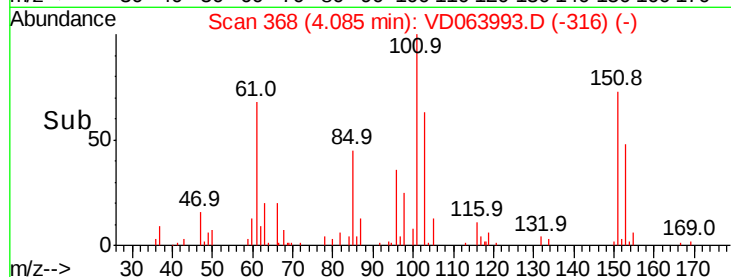
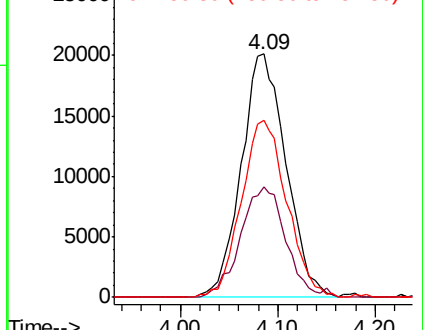
151 73.7 65.5 98.3



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: 37.528 ug/l

RT: 4.29 min Scan# 403

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

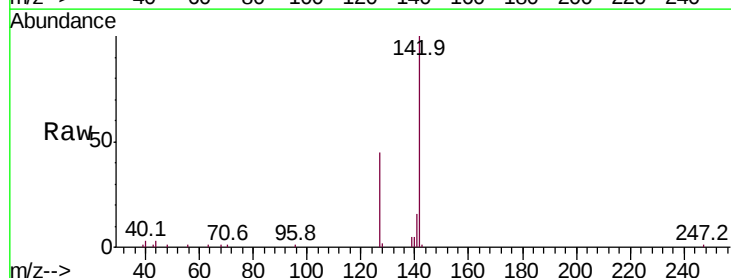
Tgt Ion:142 Resp: 79346

Ion Ratio Lower Upper

142 100

127 44.7 35.3 52.9

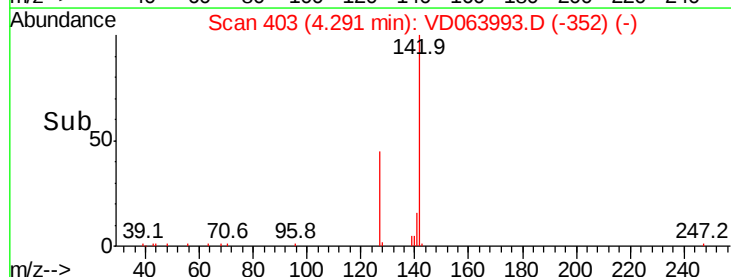
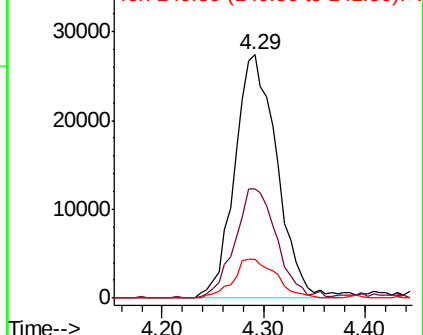
141 16.2 12.2 18.2

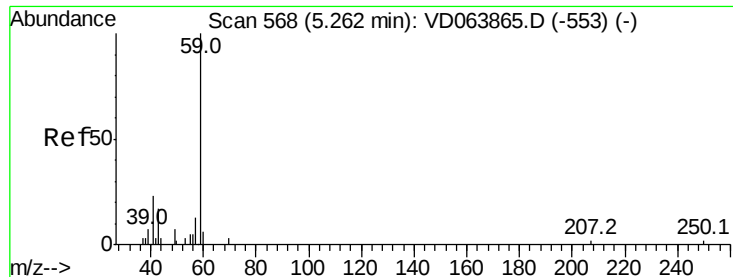


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



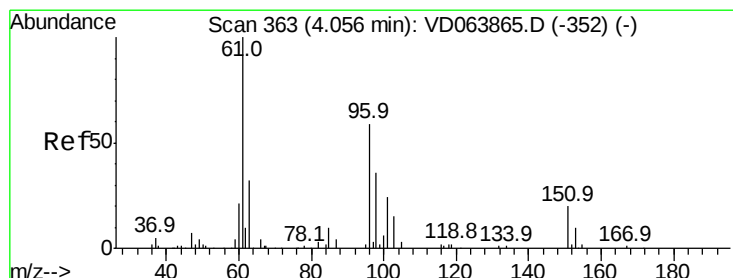
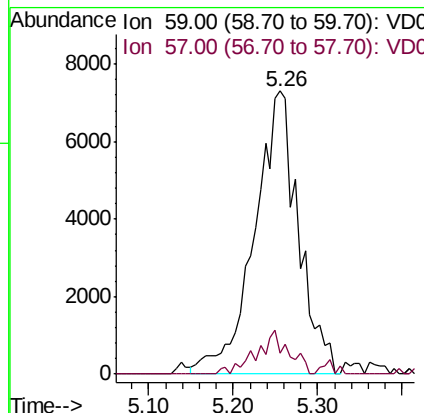
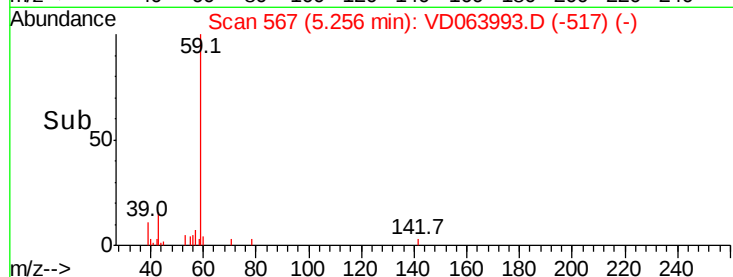
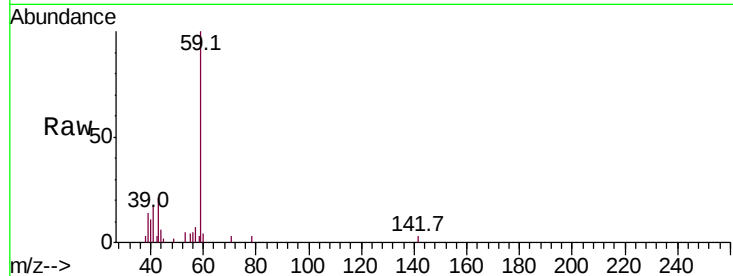


#11

Tert butyl alcohol
 Concen: 211.746 ug/l
 RT: 5.26 min Scan# 567
 Delta R.T. -0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Instrument :
 MSVOA_D
 ClientSampleId :

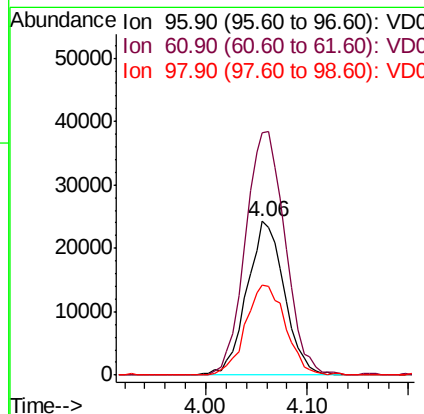
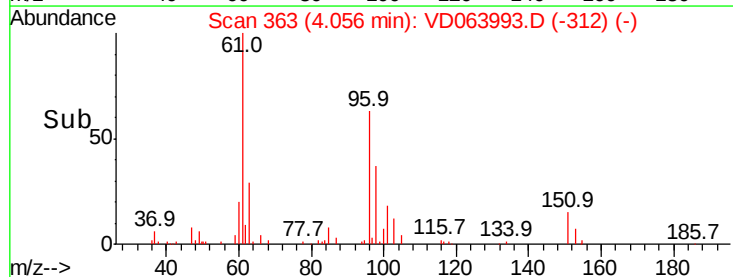
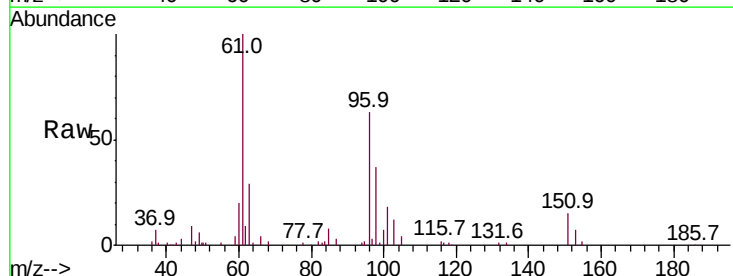
Tot Ion: 59 Resp: 26349
 Ion Ratio Lower Upper
 59 100
 57 10.8 8.8 13.2

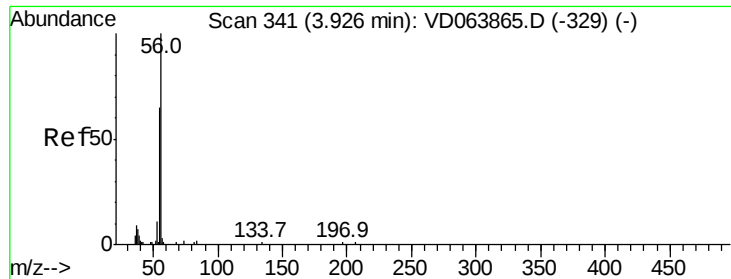


#12

1,1-Dichloroethene
 Concen: 40.618 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.00 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Tgt Ion: 96 Resp: 62268
 Ion Ratio Lower Upper
 96 100
 61 158.3 135.6 203.4
 98 58.8 49.2 73.8





#13

Acrolein

Concen: 183.276 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

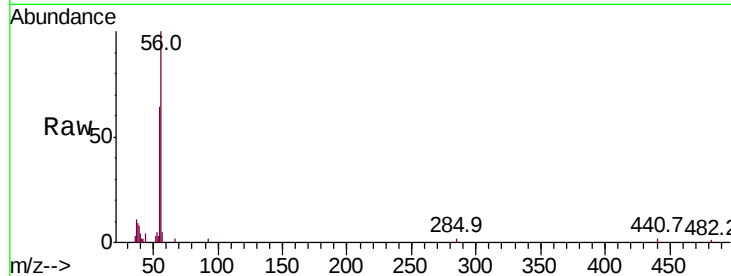
ClientSampleId :

Tot Ion: 56 Resp: 29151

Ion Ratio Lower Upper

56 100

55 72.6 53.0 79.6



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.92

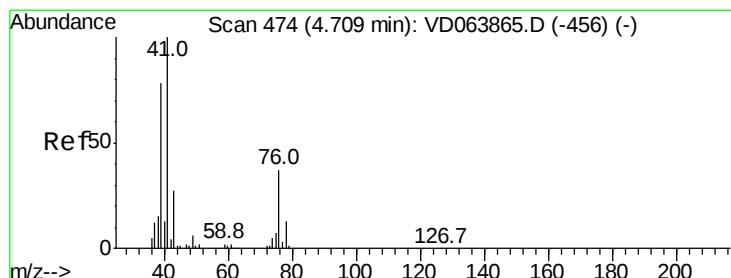
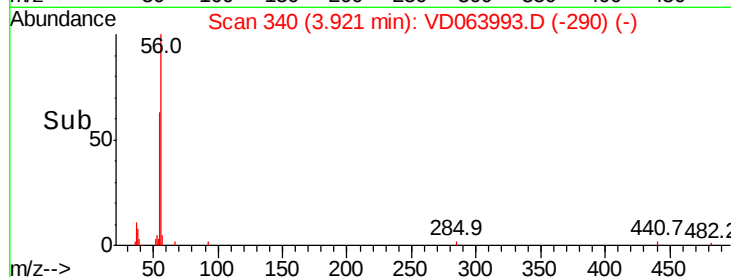
15000

10000

5000

0

Time--> 3.80 3.85 3.90 3.95 4.00



#14

Allyl chloride

Concen: 44.626 ug/l

RT: 4.71 min Scan# 475

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

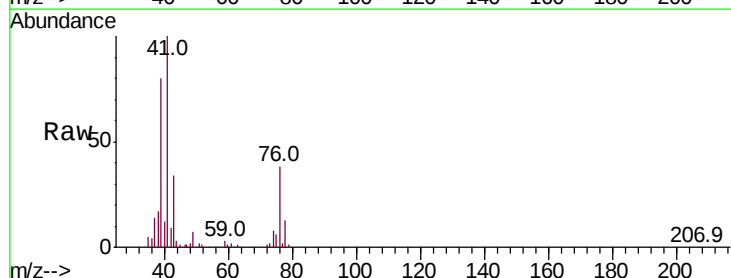
Tgt Ion: 41 Resp: 113741

Ion Ratio Lower Upper

41 100

39 77.6 61.8 92.6

76 37.2 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

4.71

50000

40000

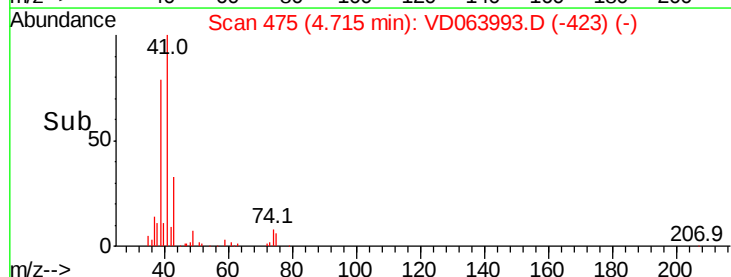
30000

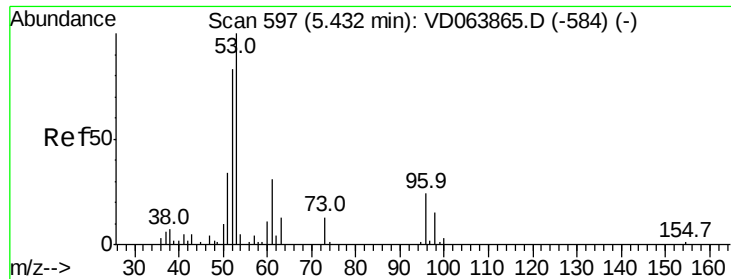
20000

10000

0

Time--> 4.50 4.60 4.70 4.80





#15

Acrylonitrile

Concen: 248.083 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampleId :

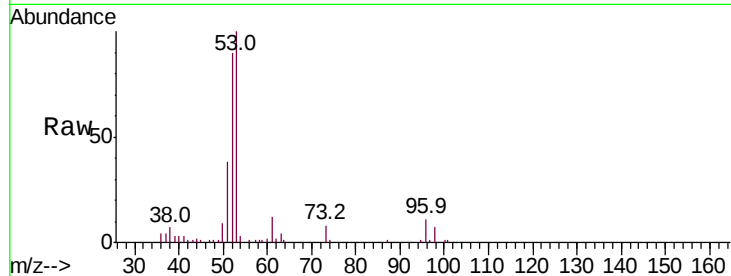
Tot Ion: 53 Resp: 97316

Ion Ratio Lower Upper

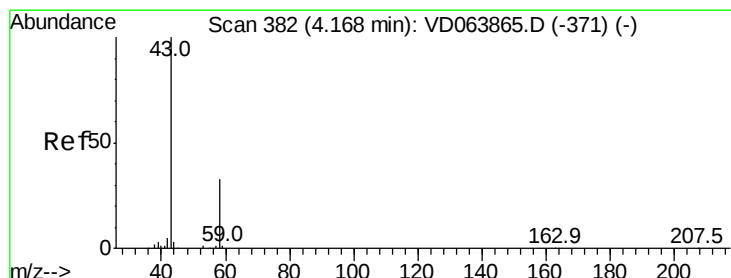
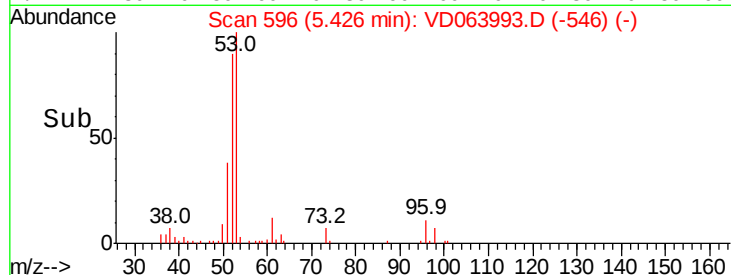
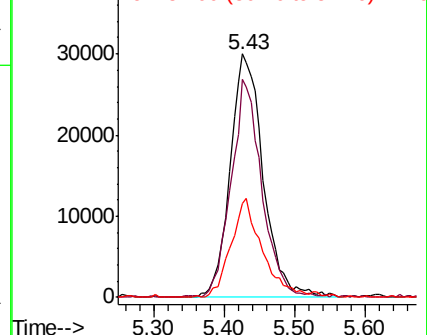
53 100

52 82.9 67.3 100.9

51 38.4 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: 200.900 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD063993.D

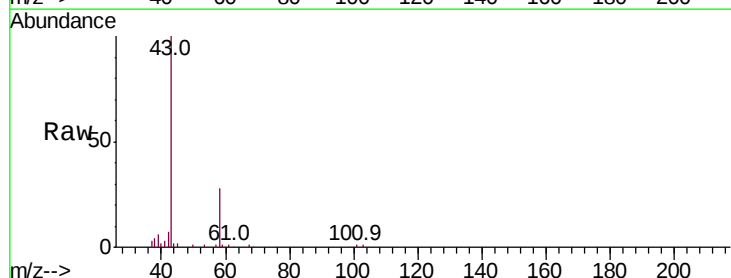
Acq: 16 Oct 2019 18:07

Tgt Ion: 43 Resp: 93148

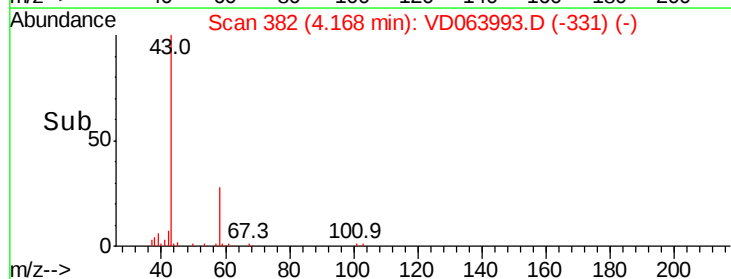
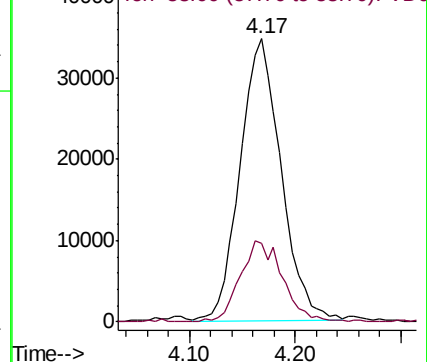
Ion Ratio Lower Upper

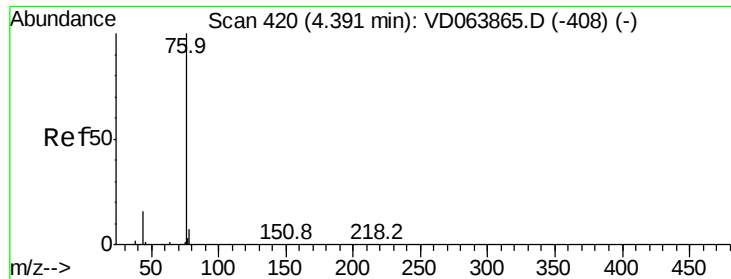
43 100

58 28.1 26.2 39.4



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

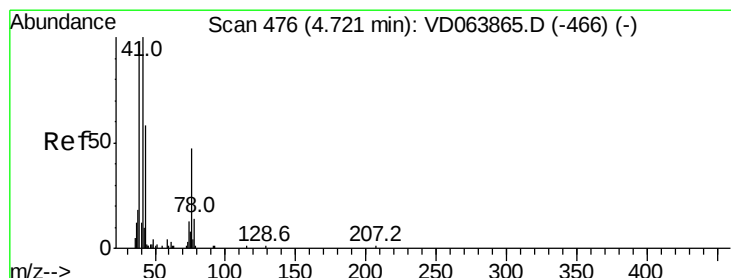
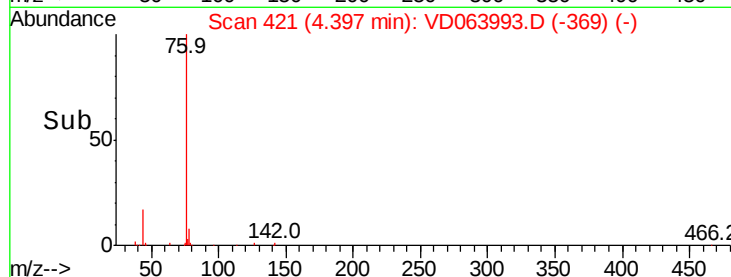
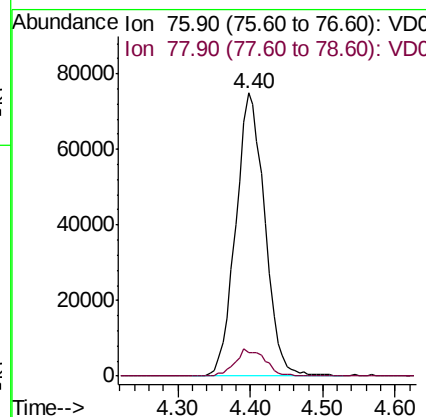
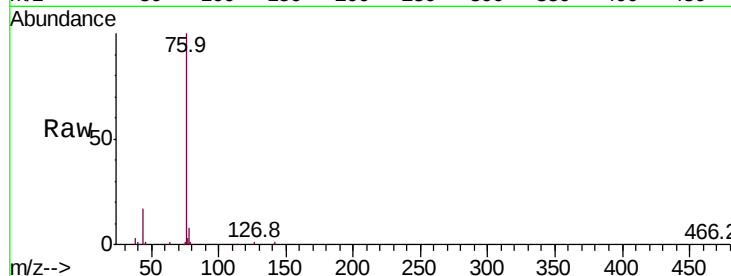




#17
Carbon Disulfide
Concen: 37.352 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

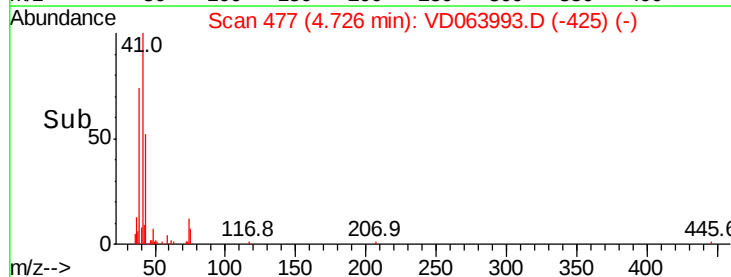
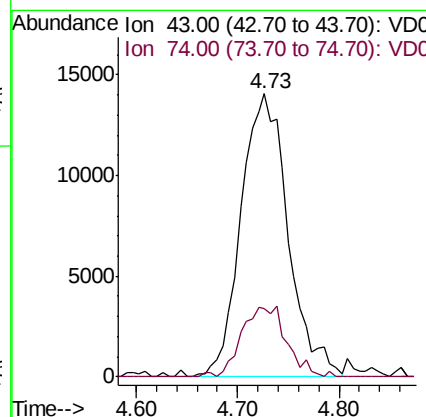
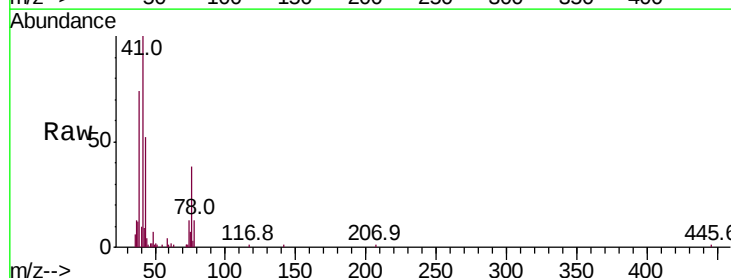
Instrument :
MSVOA_D
ClientSampleId :

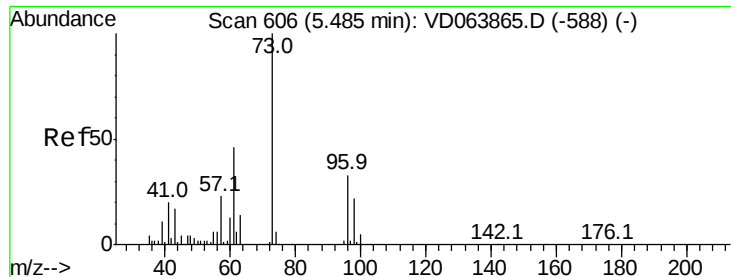
Tot Ion: 76 Resp: 208150
Ion Ratio Lower Upper
76 100
78 8.5 5.8 8.8



#18
Methyl Acetate
Concen: 50.233 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion: 43 Resp: 45554
Ion Ratio Lower Upper
43 100
74 23.7 20.8 31.2



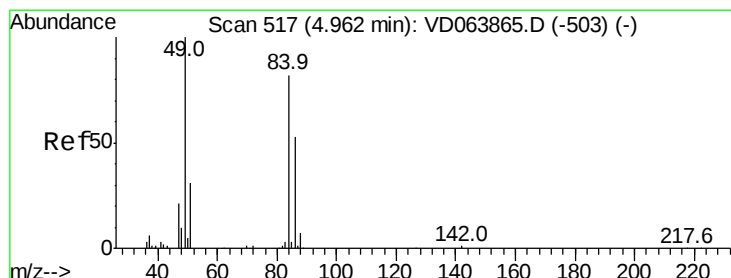
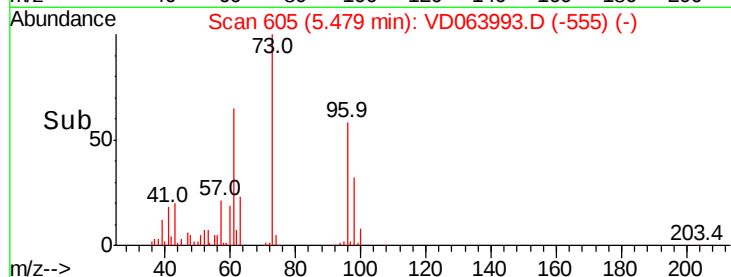
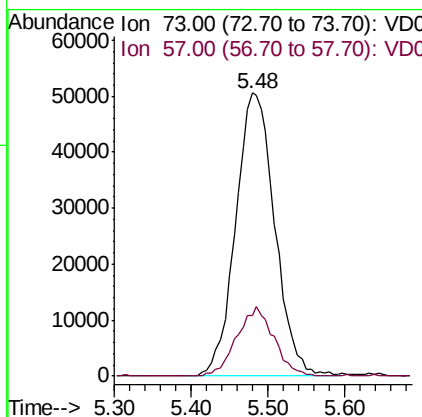
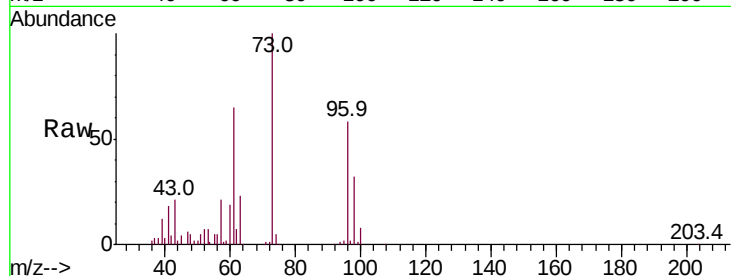


#19

Methyl tert-butyl Ether
 Concen: 45.192 ug/l
 RT: 5.48 min Scan# 605
 Delta R.T. -0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Instrument :
 MSVOA_D
 ClientSampleID :

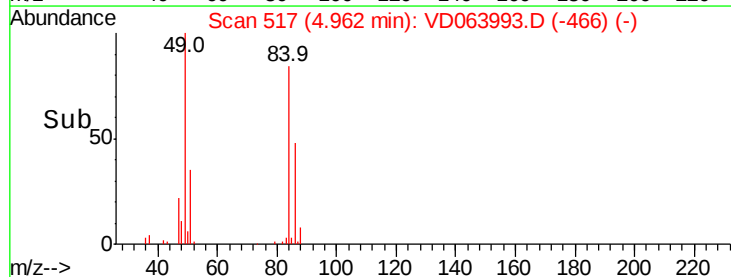
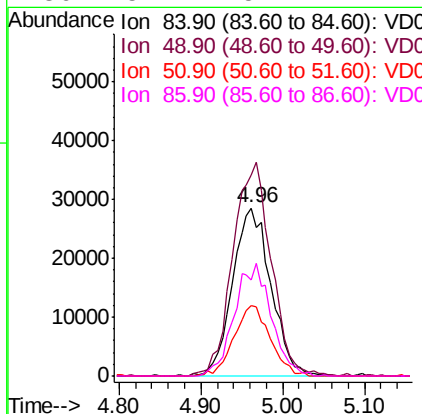
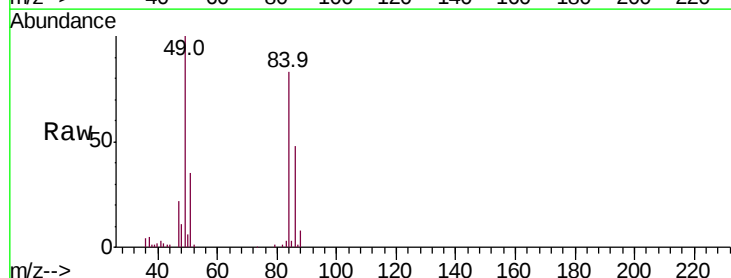
Tot Ion: 73 Resp: 179399
 Ion Ratio Lower Upper
 73 100
 57 21.4 18.1 27.1

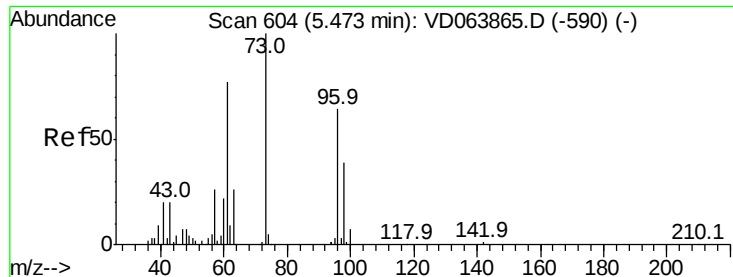


#20

Methylene Chloride
 Concen: 45.004 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Tgt Ion: 84 Resp: 93205
 Ion Ratio Lower Upper
 84 100
 49 119.8 97.3 145.9
 51 41.9 30.1 45.1
 86 57.2 51.4 77.2





#21

trans-1,2-Dichloroethene

Concen: 47.607 ug/l

RT: 5.47 min Scan# 604

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampleId :

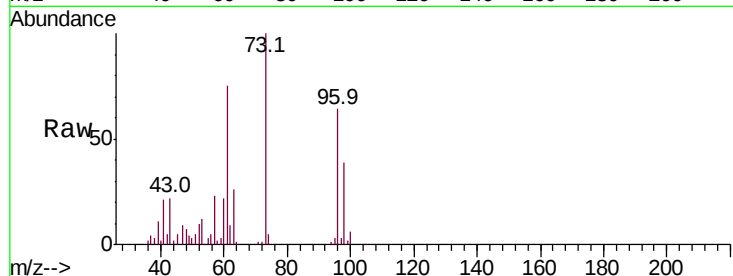
Tot Ion: 96 Resp: 90854

Ion Ratio Lower Upper

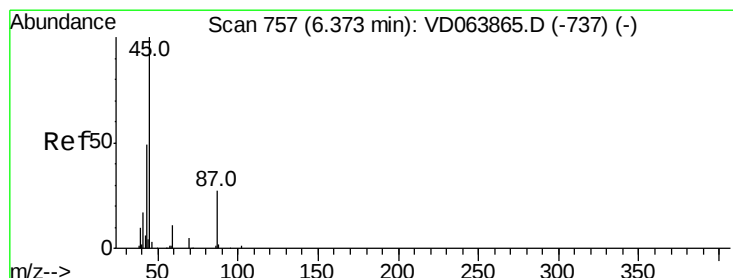
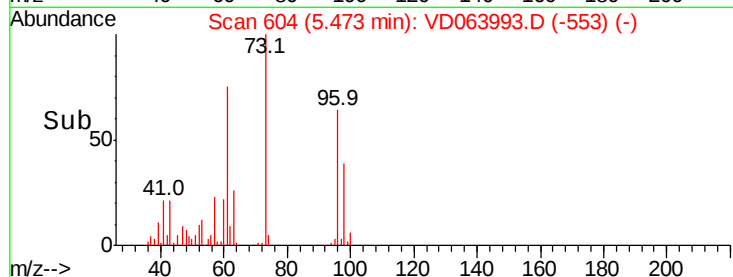
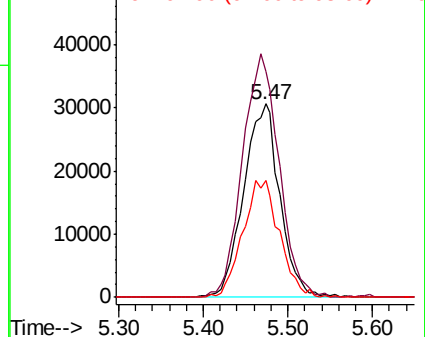
96 100

61 116.8 96.6 145.0

98 60.7 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: 48.683 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Tgt Ion: 45 Resp: 253410

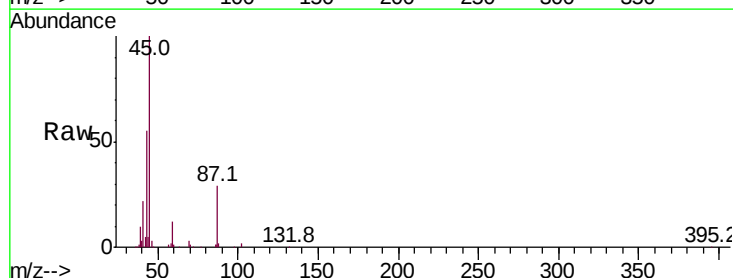
Ion Ratio Lower Upper

45 100

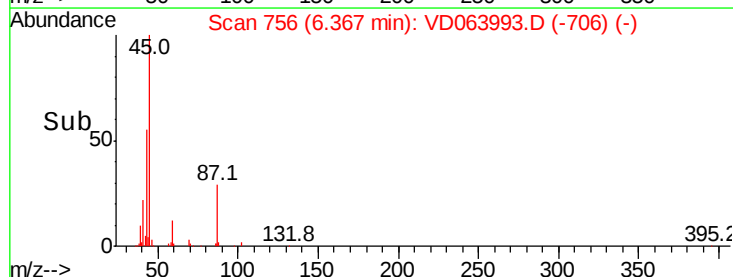
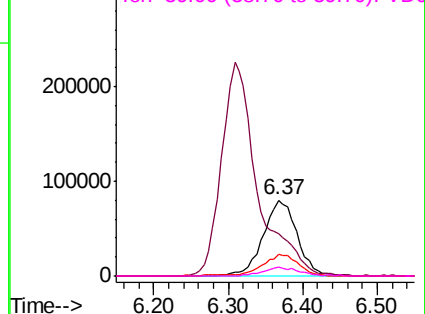
43 54.0 41.2 61.8

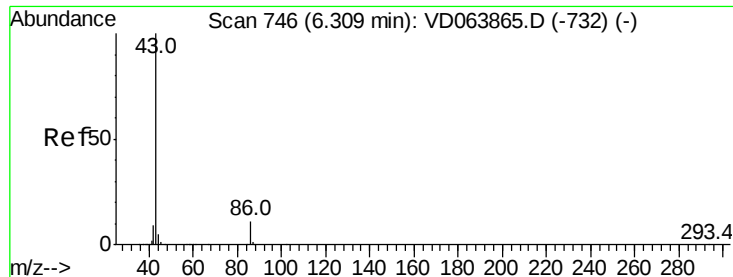
87 28.7 22.2 33.4

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: 244.758 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

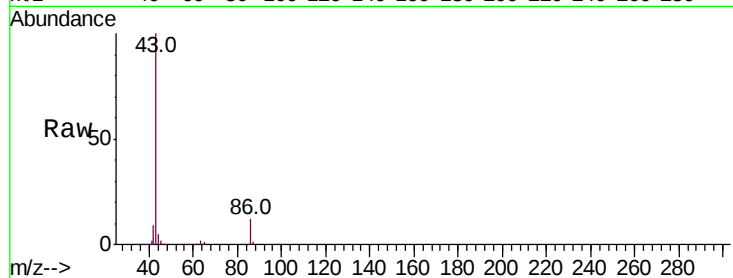
ClientSampleId :

Tot Ion: 43 Resp: 757913

Ion Ratio Lower Upper

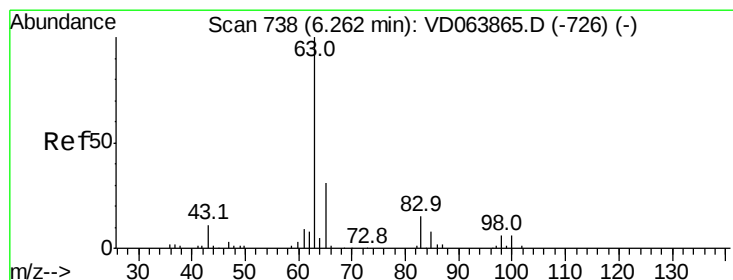
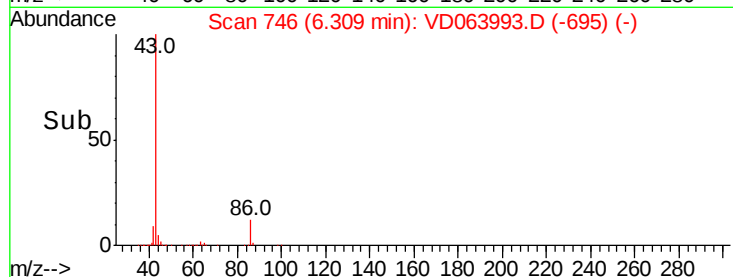
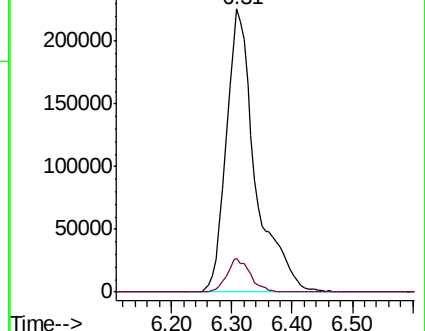
43 100

86 11.7 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: 48.033 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

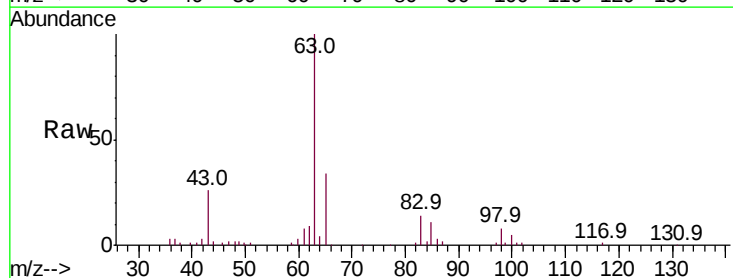
Tgt Ion: 63 Resp: 154007

Ion Ratio Lower Upper

63 100

98 8.4 3.1 9.4

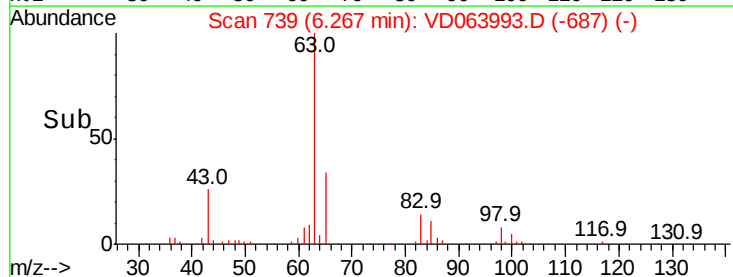
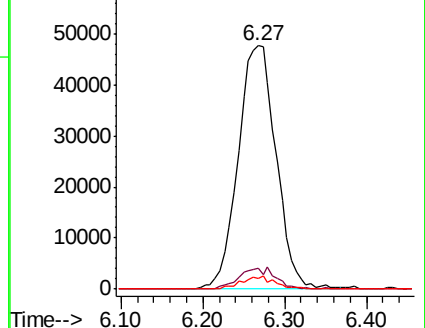
100 4.5 3.0 9.2

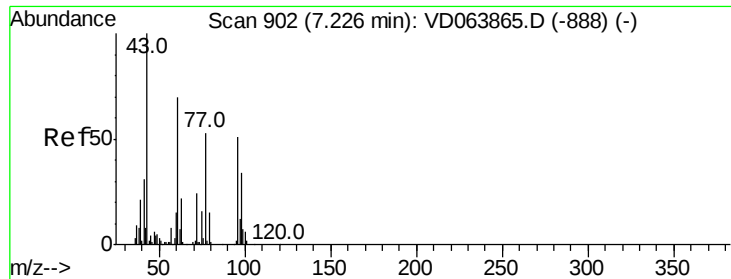


Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 97.90 (97.60 to 98.60): VDC

Ion 99.90 (99.60 to 100.60): VDC





#25

2-Butanone

Concen: 235.594 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

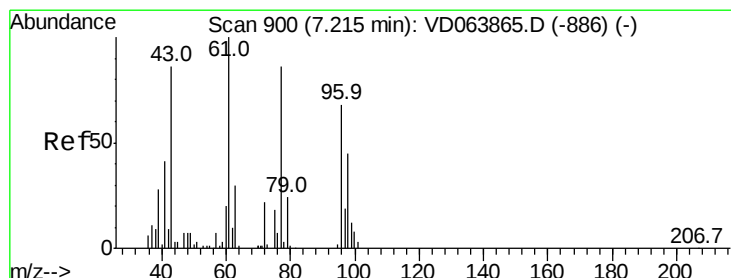
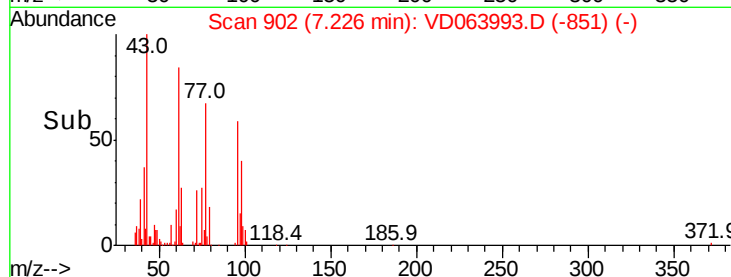
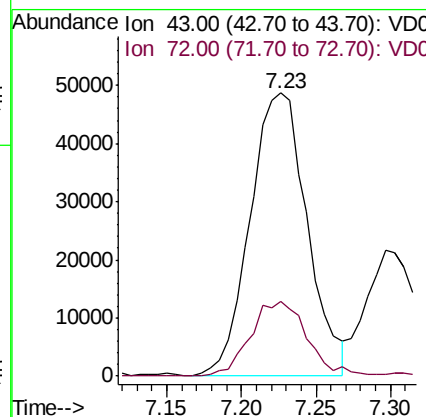
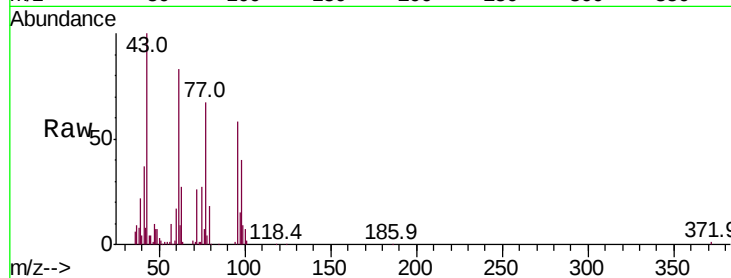
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 43 Resp: 129454

Ion Ratio Lower Upper

43 100

72 26.3 19.2 28.8



#26

2,2-Dichloropropane

Concen: 45.335 ug/l

RT: 7.21 min Scan# 900

Delta R.T. -0.00 min

Lab File: VD063993.D

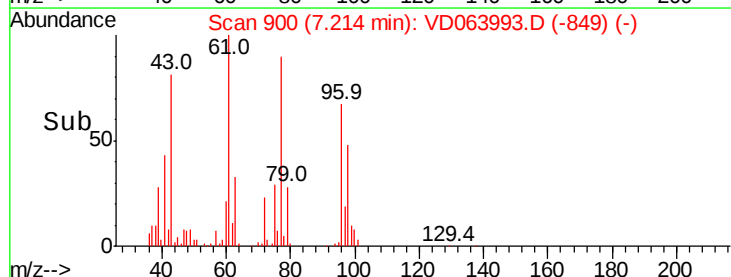
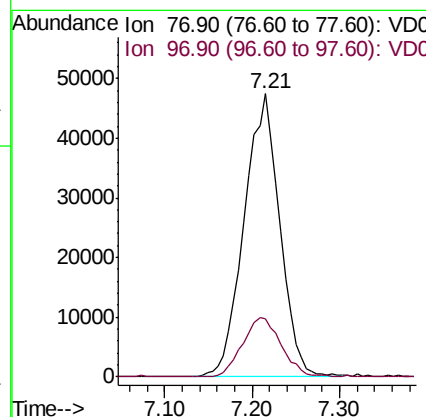
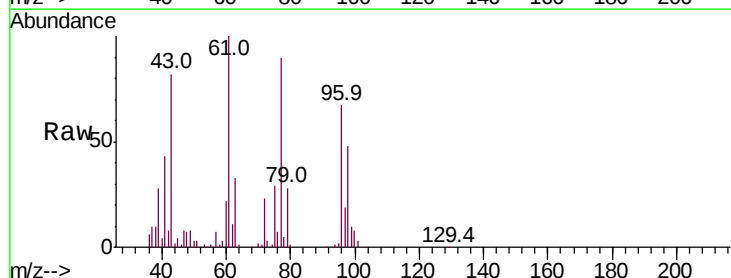
Acq: 16 Oct 2019 18:07

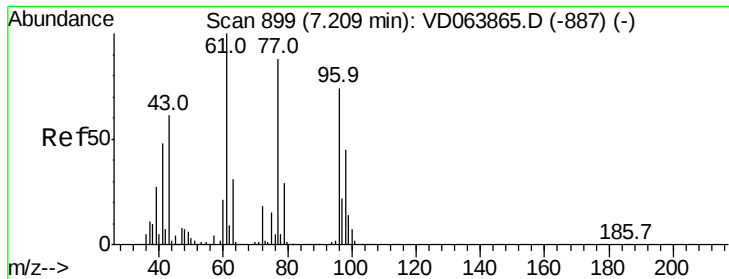
Tgt Ion: 77 Resp: 131487

Ion Ratio Lower Upper

77 100

97 22.8 11.4 34.1



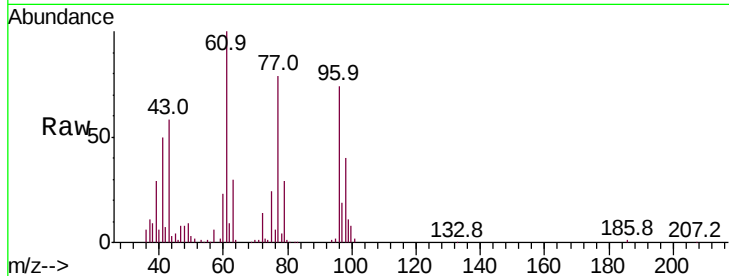


#27

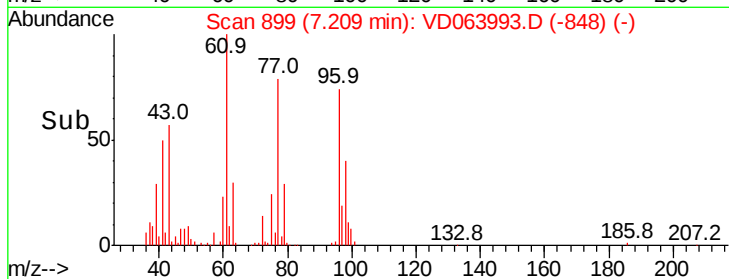
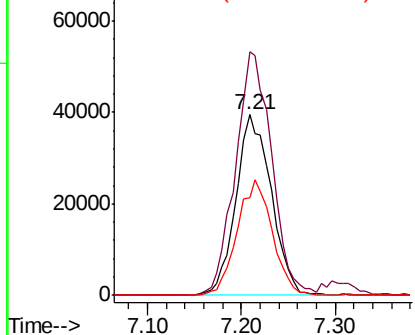
cis-1,2-Dichloroethene
Concen: 47.828 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 96 Resp: 103313
Ion Ratio Lower Upper
96 100
61 138.2 0.0 280.0
98 63.1 0.0 130.4



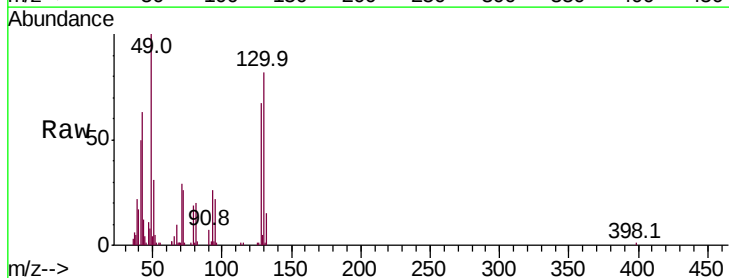
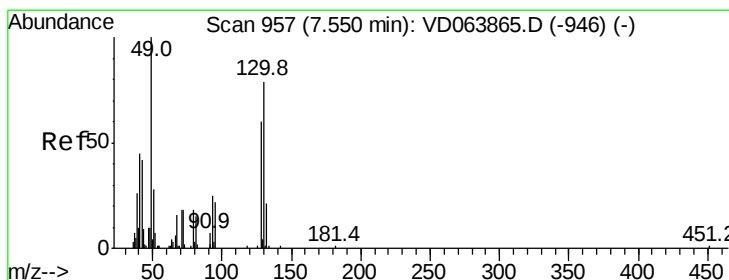
Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 97.90 (97.60 to 98.60): VDC



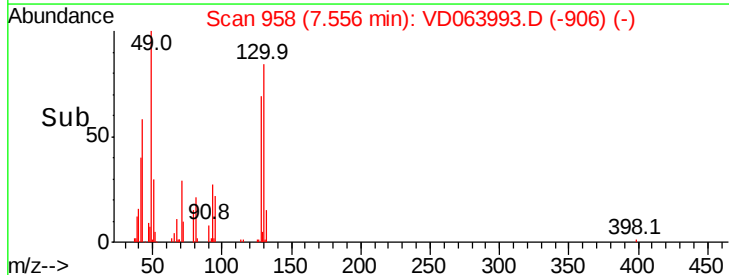
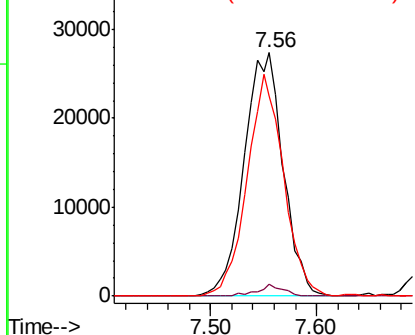
#28

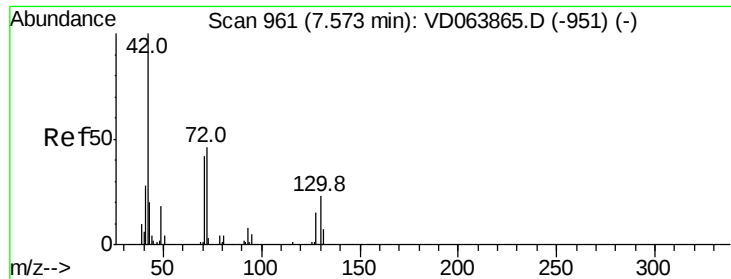
Bromochloromethane
Concen: 57.320 ug/l
RT: 7.56 min Scan# 958
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion: 49 Resp: 70217
Ion Ratio Lower Upper
49 100
129 3.0 0.0 5.6
130 85.2 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

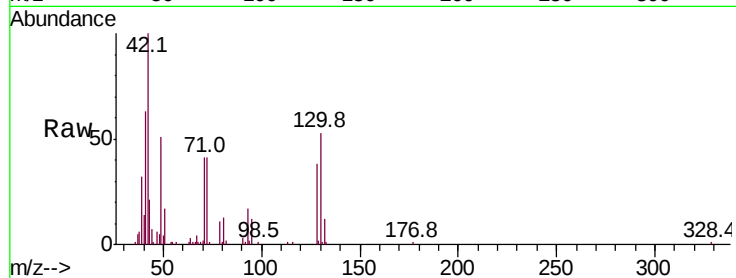




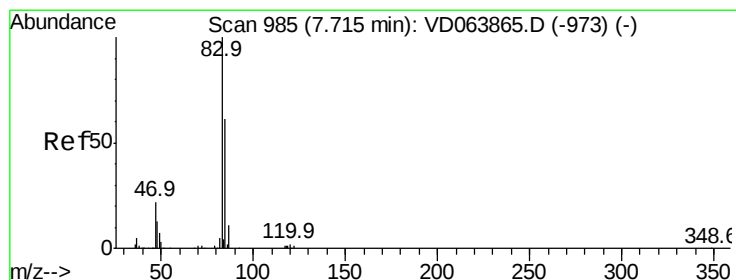
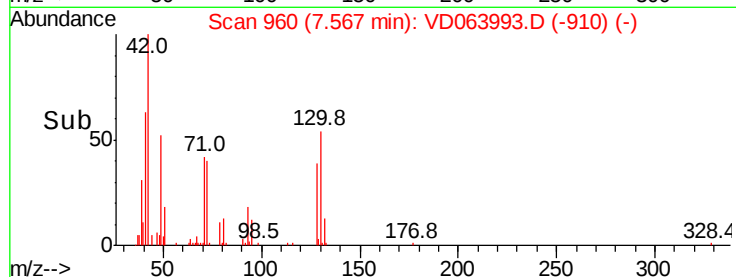
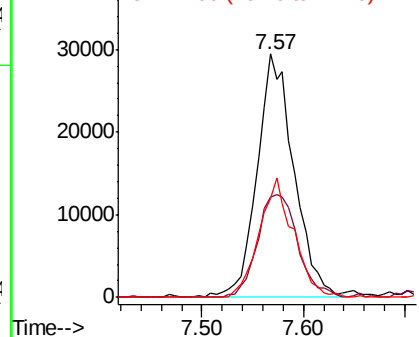
#29
Tetrahydrofuran
Concen: 231.647 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 42 Resp: 74294
Ion Ratio Lower Upper
42 100
72 46.2 37.6 56.4
71 45.7 35.0 52.6

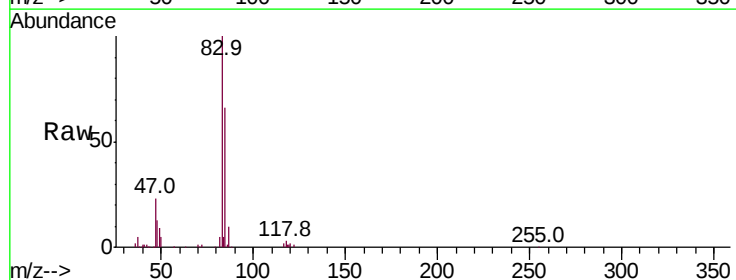


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

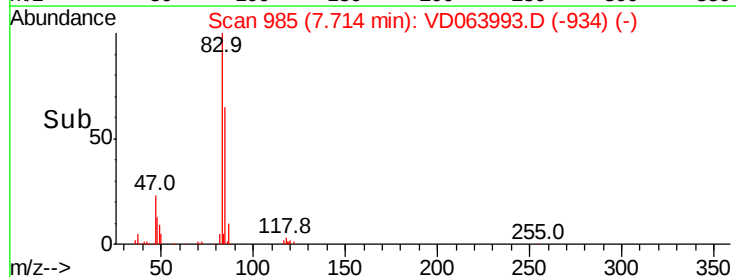
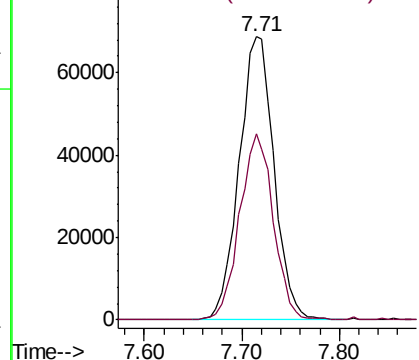


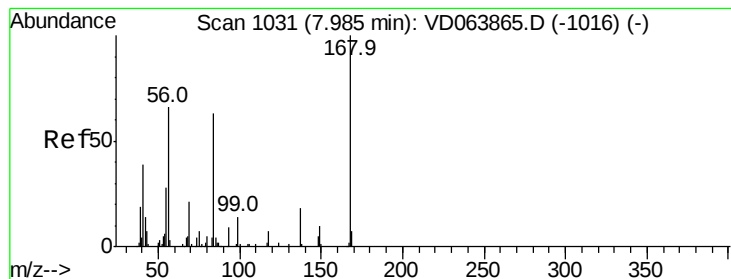
#30
Chloroform
Concen: 49.203 ug/l
RT: 7.71 min Scan# 985
Delta R.T. -0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion: 83 Resp: 171344
Ion Ratio Lower Upper
83 100
85 65.8 48.9 73.3



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





#31

Cyclohexane

Concen: 53.152 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampled :

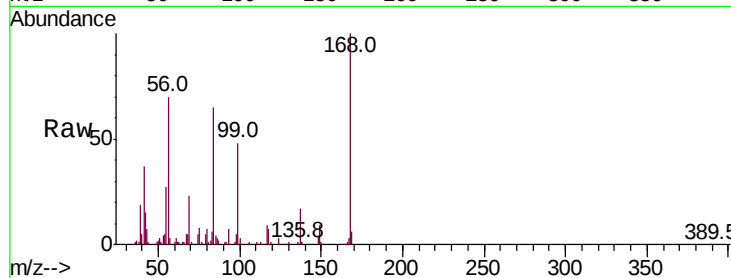
Tot Ion: 56 Resp: 140232

Ion Ratio Lower Upper

56 100

69 33.4 25.0 37.4

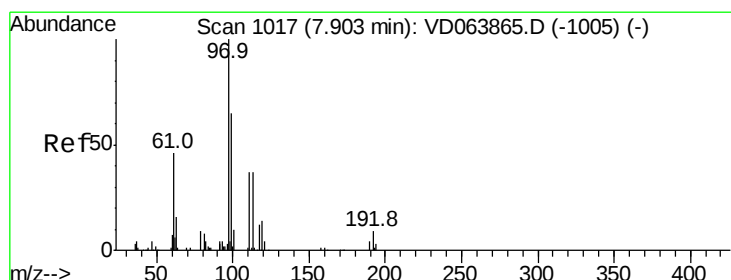
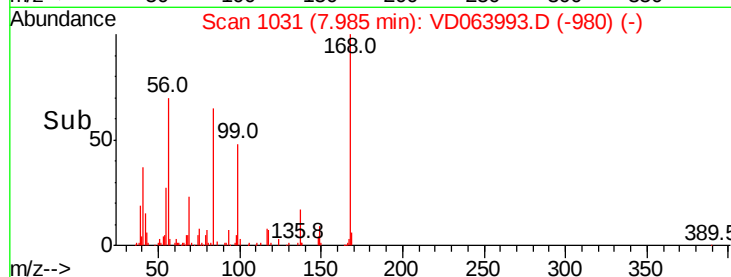
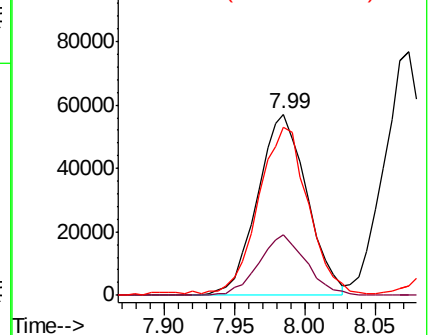
84 90.5 76.3 114.5



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.00 (83.70 to 84.70): VDC



#32

1,1,1-Trichloroethane

Concen: 48.399 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

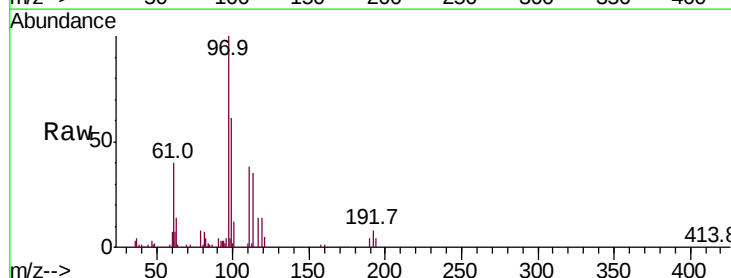
Tgt Ion: 97 Resp: 144578

Ion Ratio Lower Upper

97 100

99 63.7 52.4 78.6

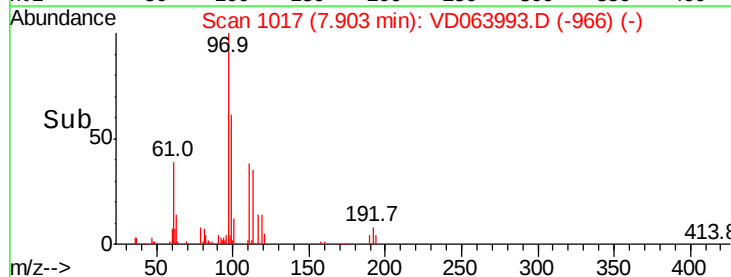
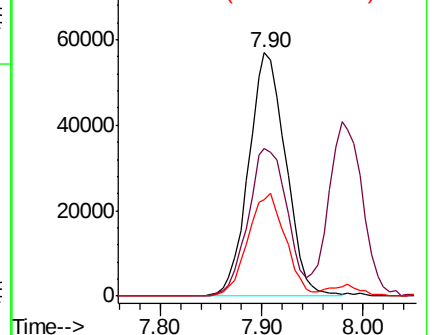
61 42.9 33.8 50.8

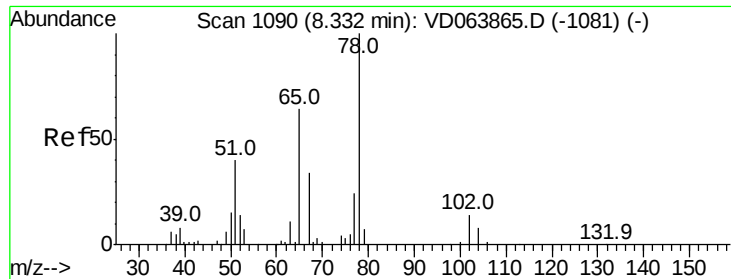


Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

Ion 60.90 (60.60 to 61.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 51.521 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

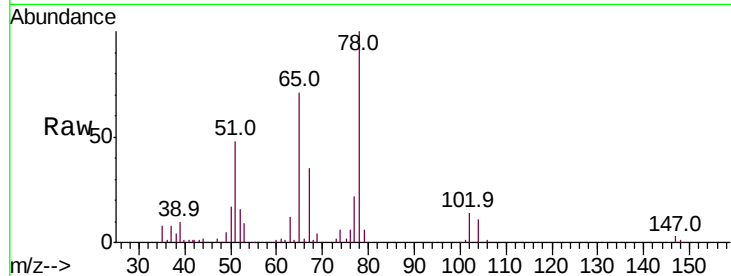
Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 65 Resp: 91751

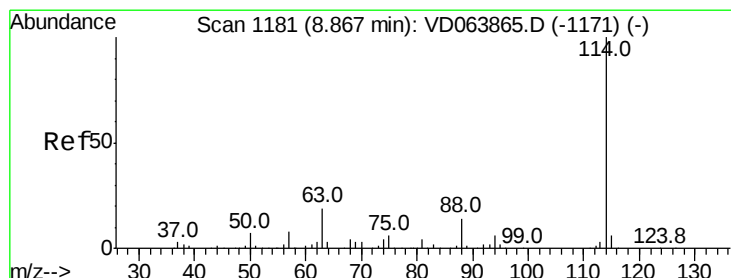
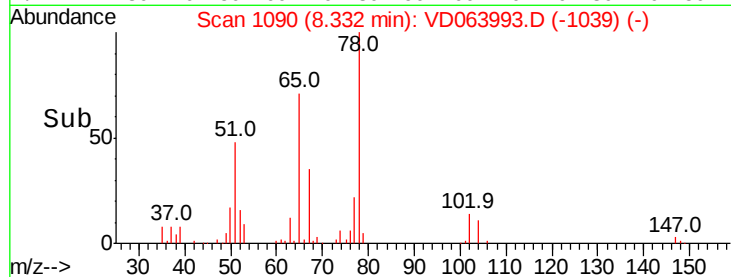
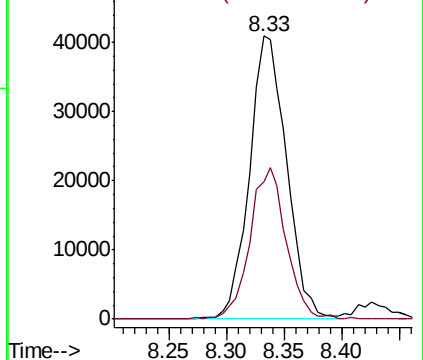
Ion Ratio Lower Upper

65 100

67 52.2 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

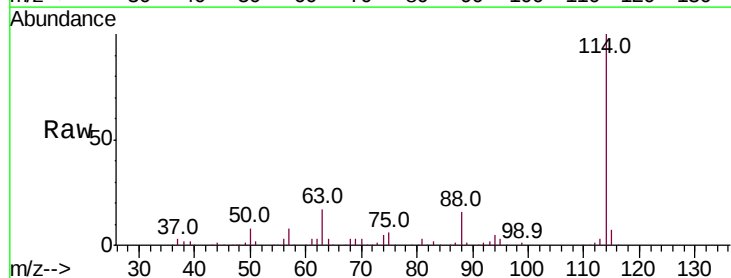
Tgt Ion: 114 Resp: 287521

Ion Ratio Lower Upper

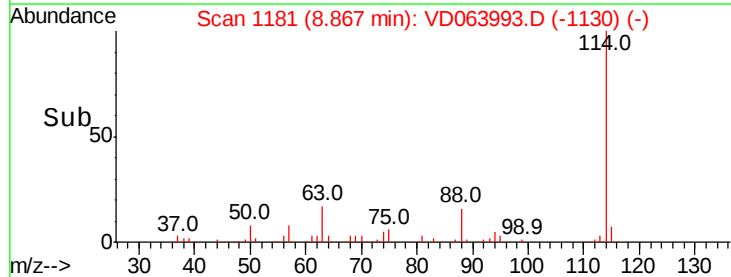
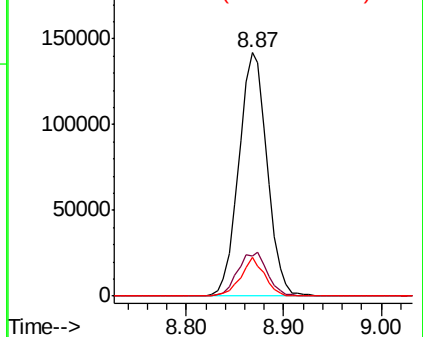
114 100

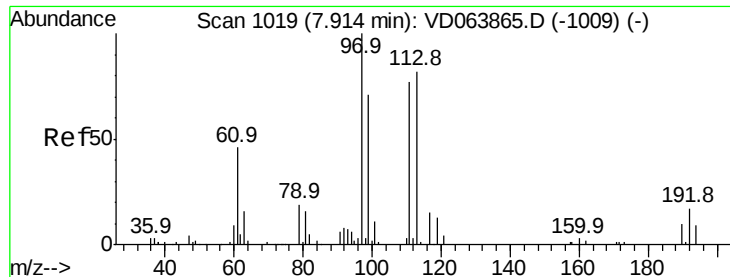
63 16.5 0.0 38.4

88 15.8 0.0 27.4



Abundance Ion 113.90 (113.60 to 114.60): VDC
Ion 63.00 (62.70 to 63.70): VDC
Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 51.892 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampleId :

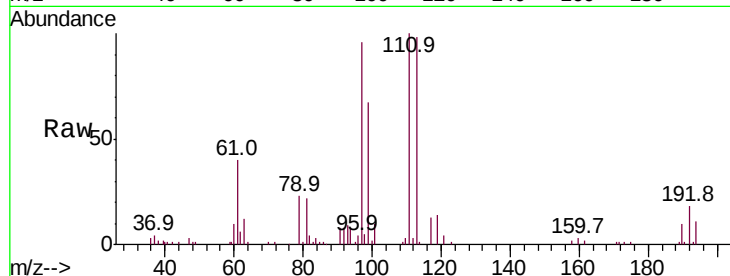
Tot Ion:113 Resp: 91181

Ion Ratio Lower Upper

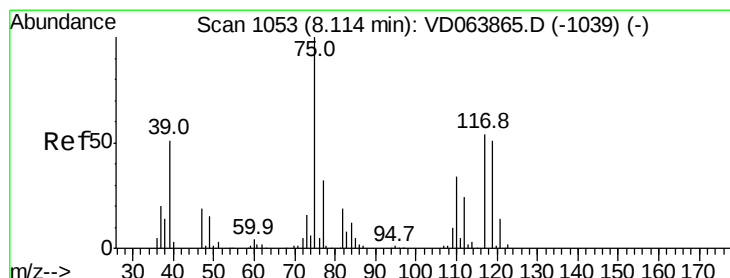
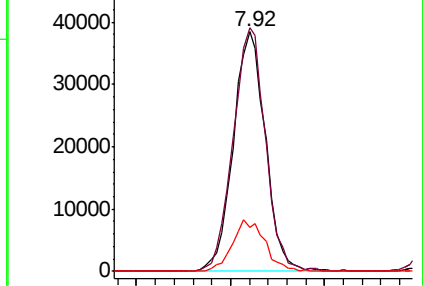
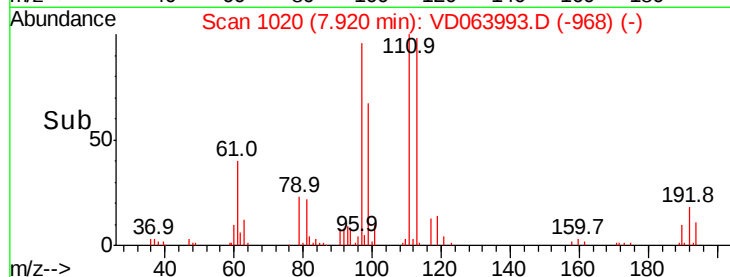
113 100

111 101.9 82.6 123.8

192 21.7 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: 49.251 ug/l

RT: 8.11 min Scan# 1053

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

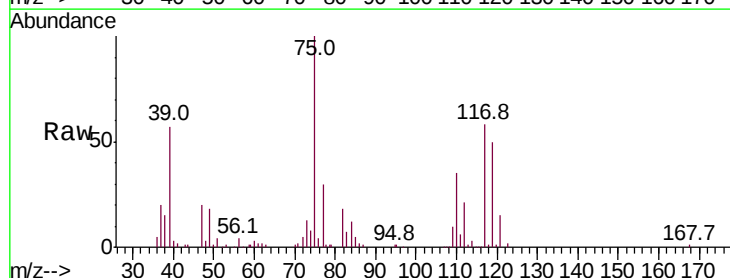
Tgt Ion: 75 Resp: 129476

Ion Ratio Lower Upper

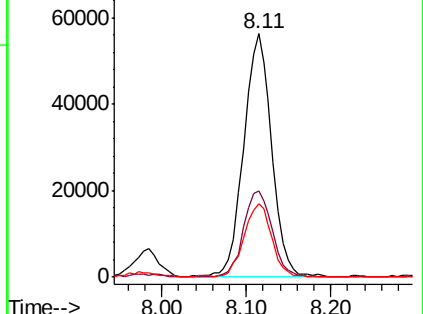
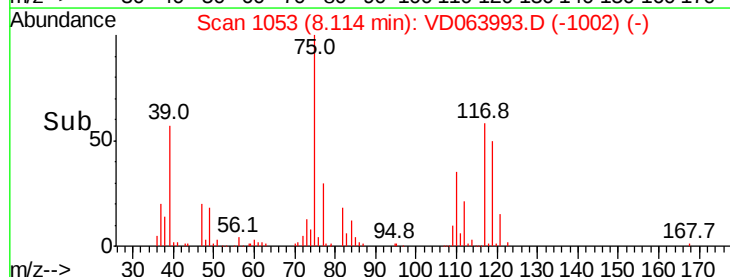
75 100

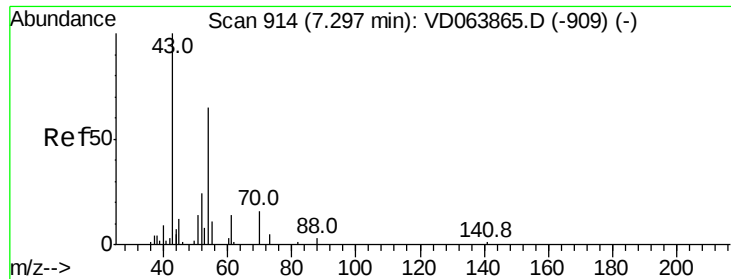
110 35.9 17.4 52.3

77 30.0 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

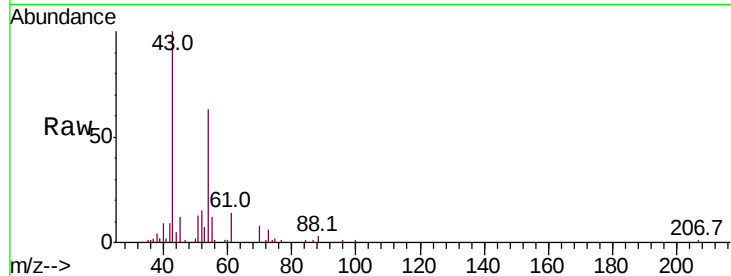




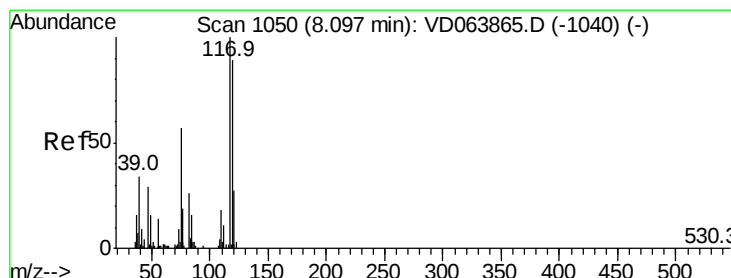
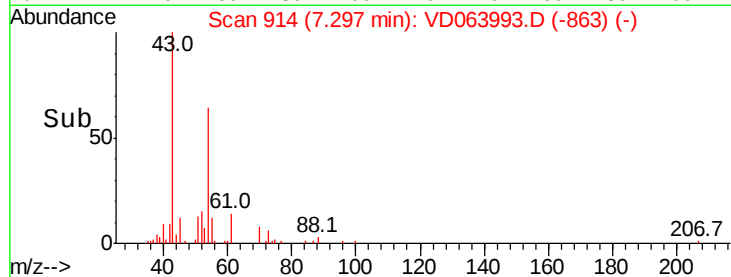
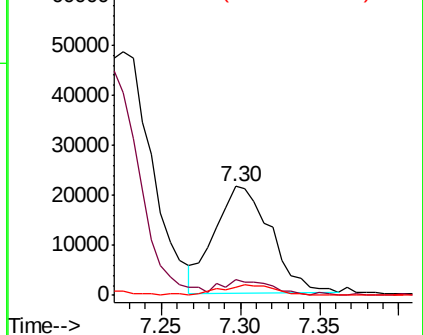
#37
Ethyl Acetate
Concen: 49.447 ug/l
RT: 7.30 min Scan# 914
Delta R.T. 0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion: 43 Resp: 52171
Ion Ratio Lower Upper
43 100
61 12.0 11.5 17.3
70 9.6 8.2 12.4

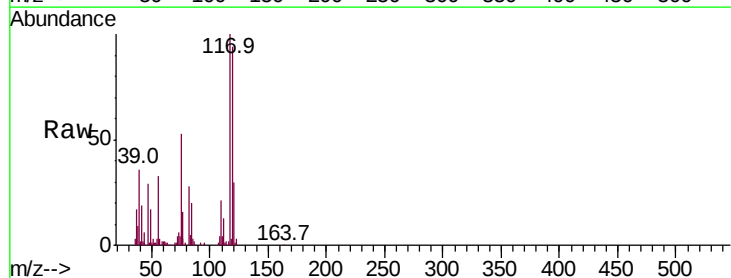


Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 60.90 (60.60 to 61.60): VDC
Ion 70.00 (69.70 to 70.70): VDC

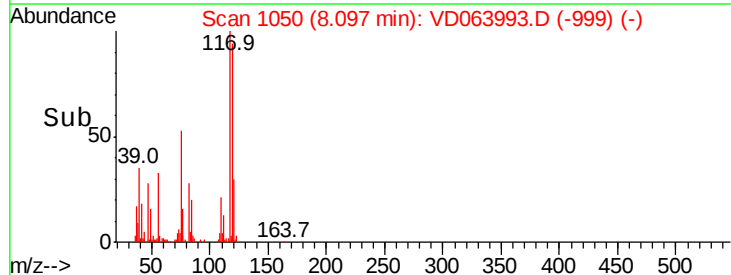
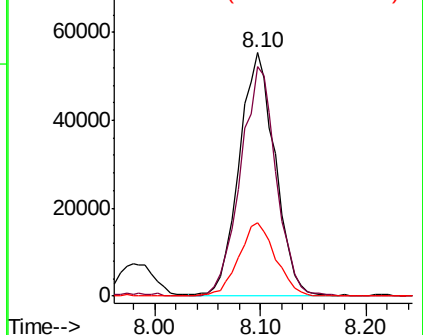


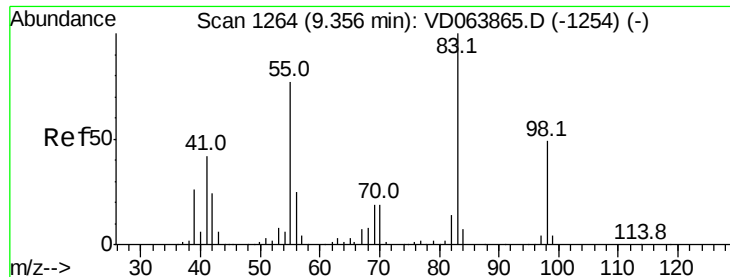
#38
Carbon Tetrachloride
Concen: 49.360 ug/l
RT: 8.10 min Scan# 1050
Delta R.T. -0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion: 117 Resp: 131128
Ion Ratio Lower Upper
117 100
119 94.1 70.8 106.2
121 30.0 21.4 32.0



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

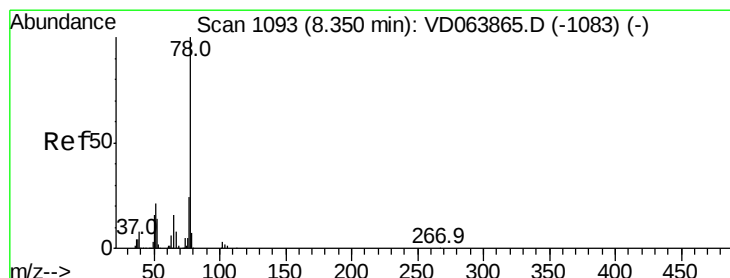
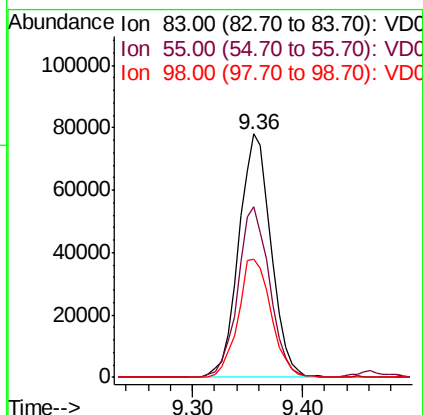
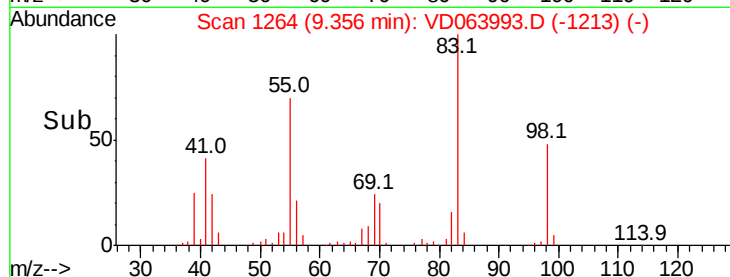
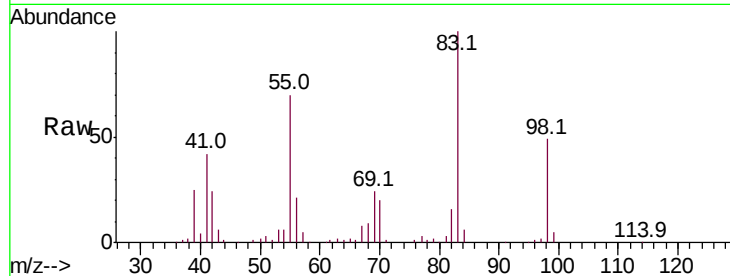




#39
Methvlcvclohexane
Concen: 49.490 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. -0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

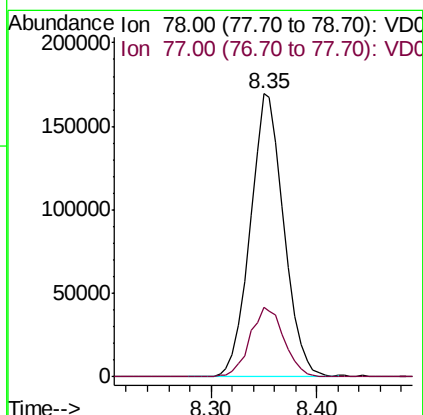
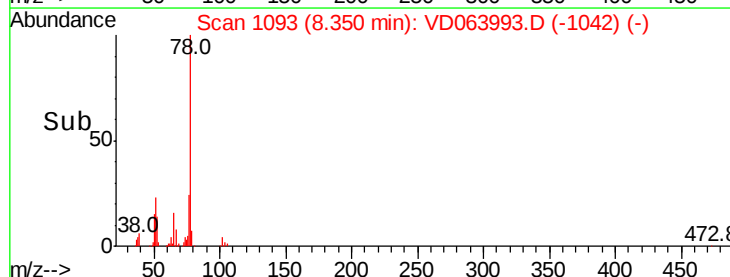
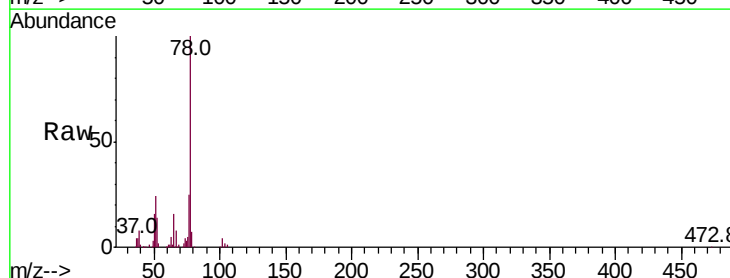
Instrument :
MSVOA_D
ClientSampled :

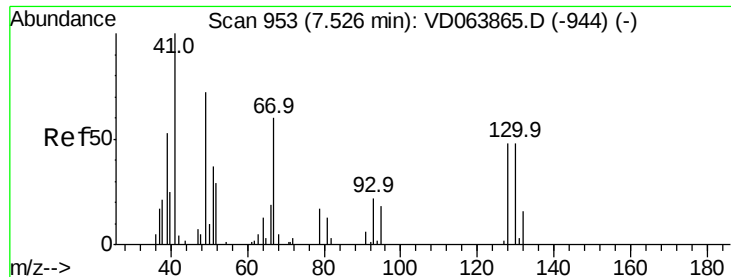
Tot Ion: 83 Resp: 159970
Ion Ratio Lower Upper
83 100
55 69.8 61.3 91.9
98 48.7 39.3 58.9



#40
Benzene
Concen: 49.680 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion: 78 Resp: 374268
Ion Ratio Lower Upper
78 100
77 24.7 19.0 28.6





#41

Methacrylonitrile

Concen: 53.846 ug/l

RT: 7.53 min Scan# 954

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 41 Resp: 32819

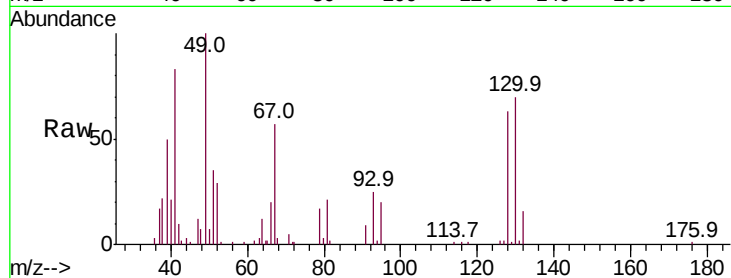
Ion Ratio Lower Upper

41 100

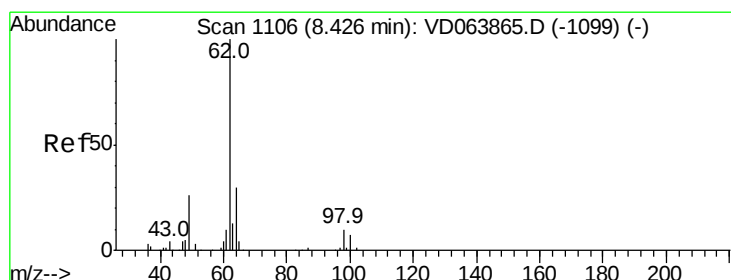
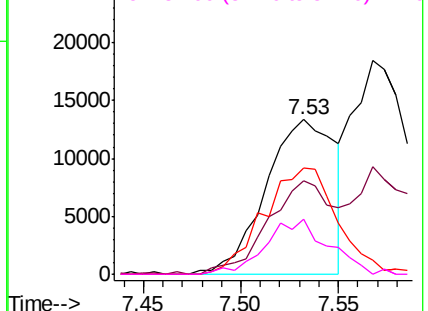
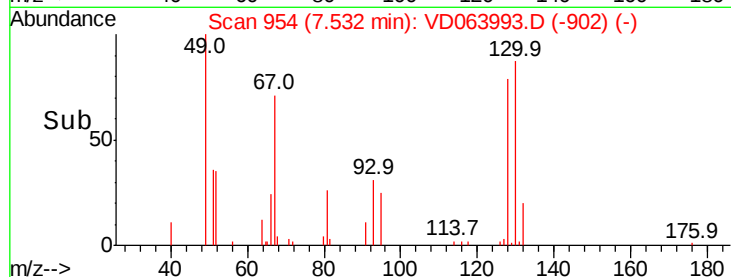
39 55.9 52.6 78.8

67 73.0 74.2 111.2#

52 32.0 34.0 51.0#



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



#42

1,2-Dichloroethane

Concen: 47.707 ug/l

RT: 8.43 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VD063993.D

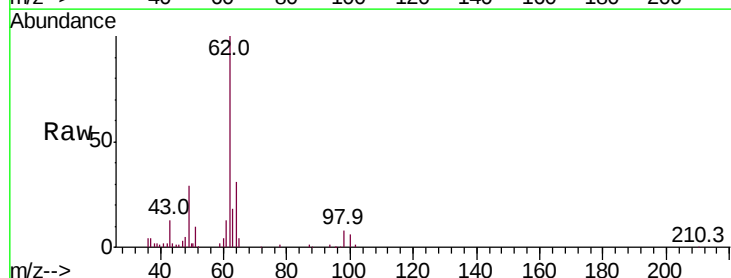
Acq: 16 Oct 2019 18:07

Tgt Ion: 62 Resp: 103963

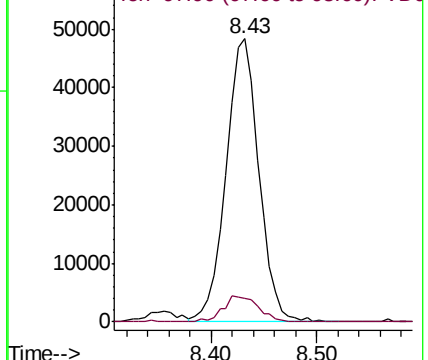
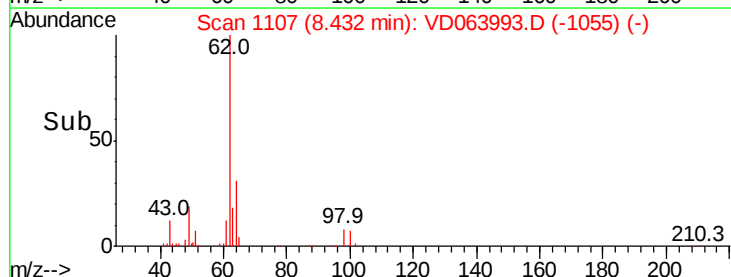
Ion Ratio Lower Upper

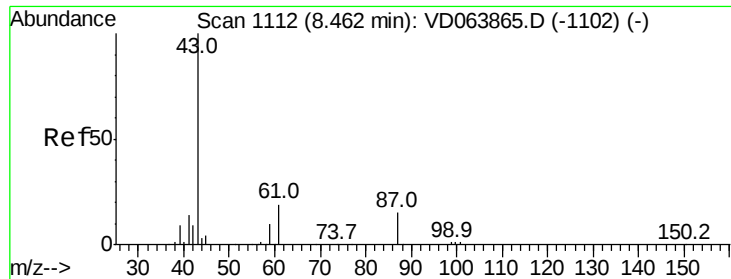
62 100

98 9.9 0.0 20.0



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





#43

Isopropyl Acetate

Concen: 46.153 ug/l

RT: 8.46 min Scan# 1112

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampleId :

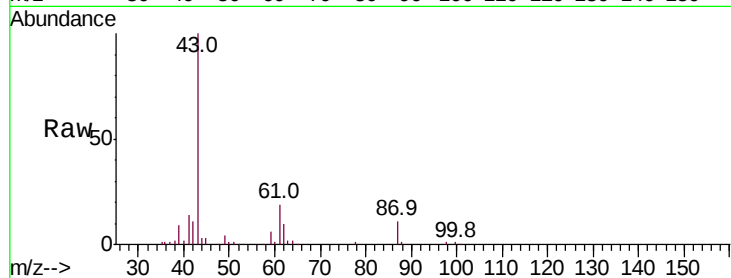
Tot Ion: 43 Resp: 101752

Ion Ratio Lower Upper

43 100

61 30.9 25.7 38.5

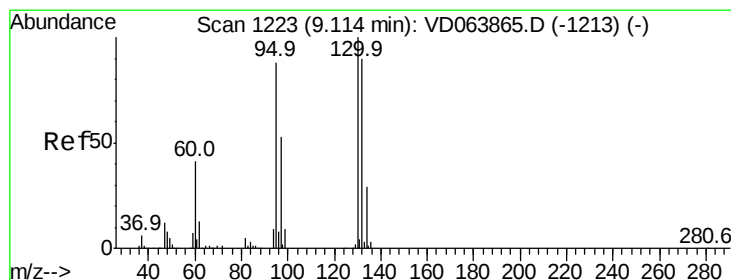
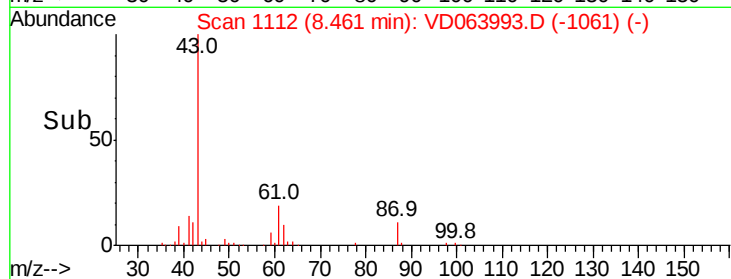
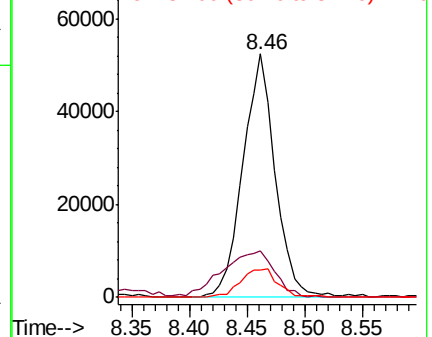
87 13.8 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 47.829 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.00 min

Lab File: VD063993.D

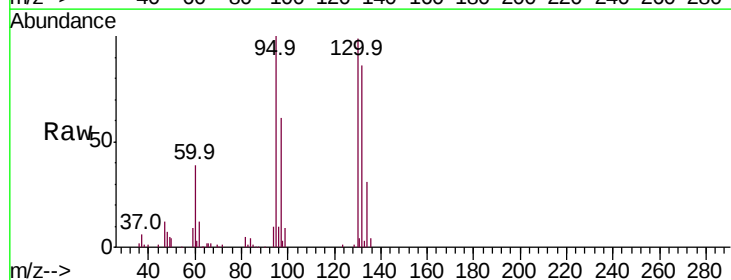
Acq: 16 Oct 2019 18:07

Tgt Ion:130 Resp: 103902

Ion Ratio Lower Upper

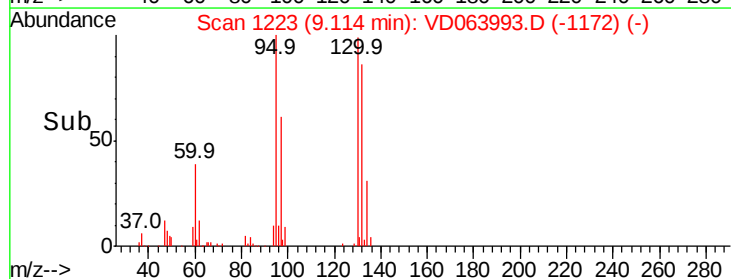
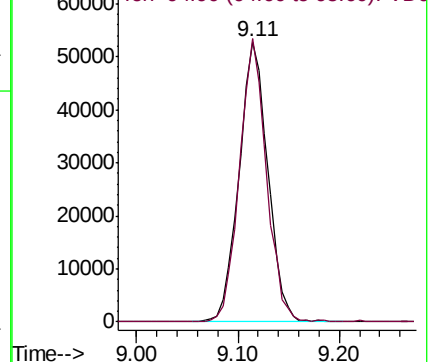
130 100

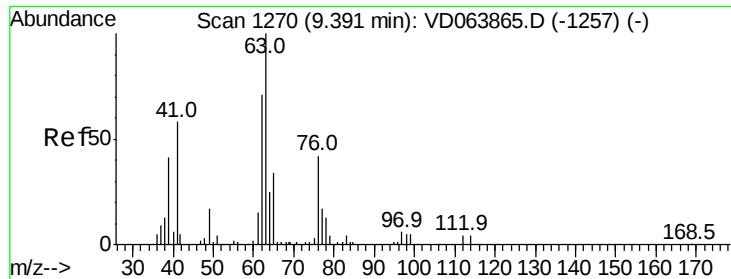
95 101.1 0.0 175.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VDC

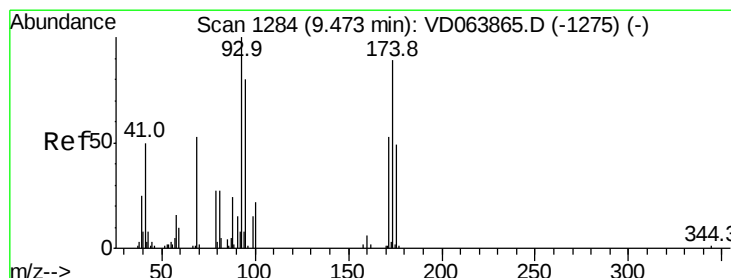
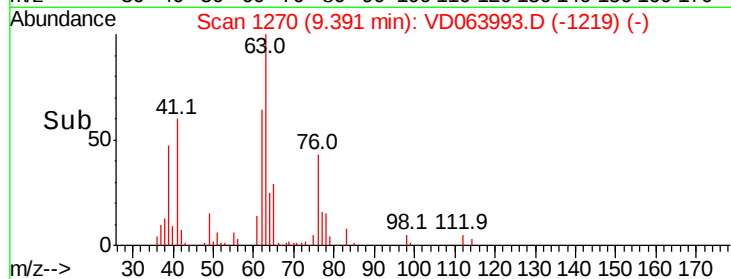
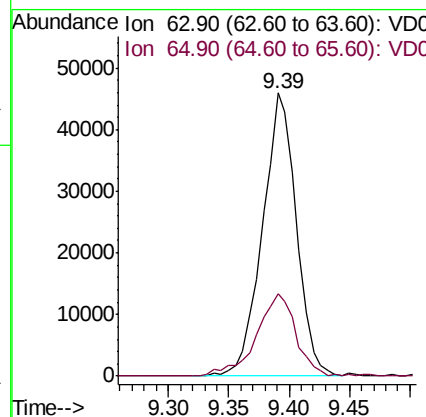
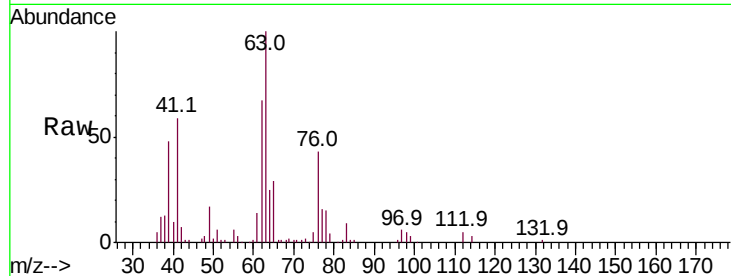




#45
 1,2-Dichloropropane
 Concen: 48.713 ug/l
 RT: 9.39 min Scan# 1270
 Delta R.T. -0.00 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

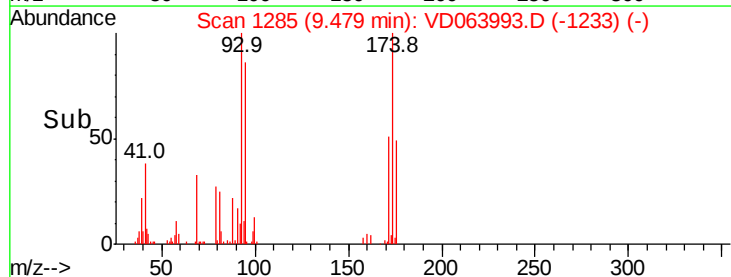
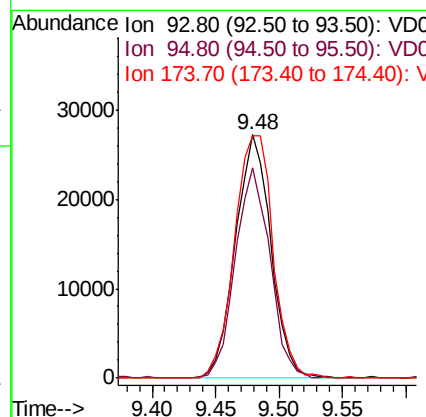
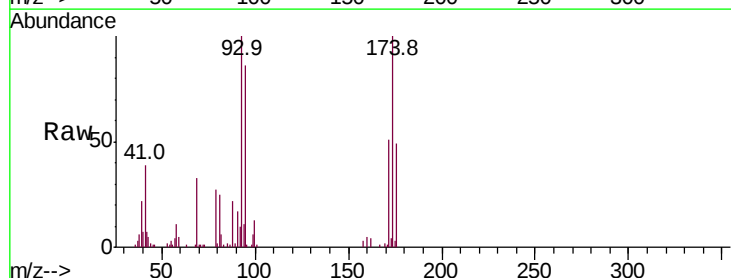
Instrument :
 MSVOA_D
 ClientSampled :

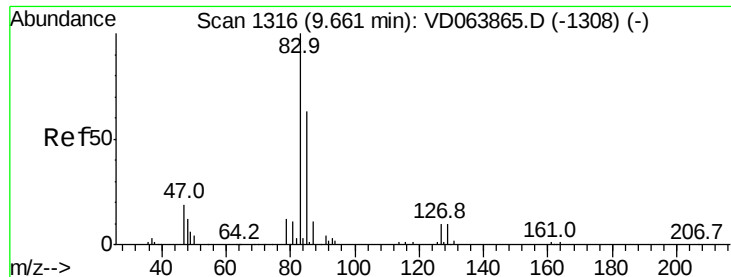
Tot Ion: 63 Resp: 89824
 Ion Ratio Lower Upper
 63 100
 65 29.2 27.3 40.9



#46
 Dibromomethane
 Concen: 50.309 ug/l
 RT: 9.48 min Scan# 1285
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Tgt Ion: 93 Resp: 52832
 Ion Ratio Lower Upper
 93 100
 95 84.2 66.0 99.0
 174 108.2 83.4 125.0





#47

Bromodichloromethane

Concen: 48.943 ug/l

RT: 9.67 min Scan# 1317

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampleId :

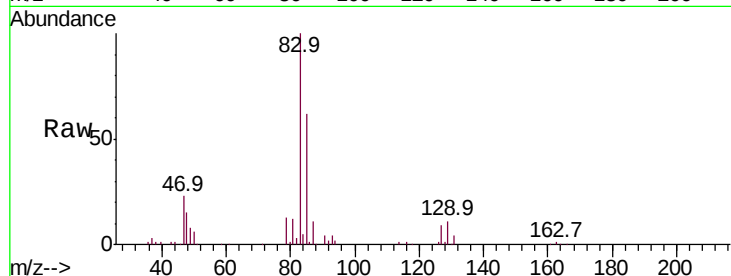
Tot Ion: 83 Resp: 132331

Ion Ratio Lower Upper

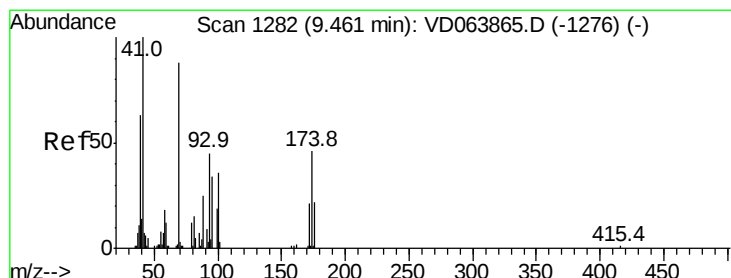
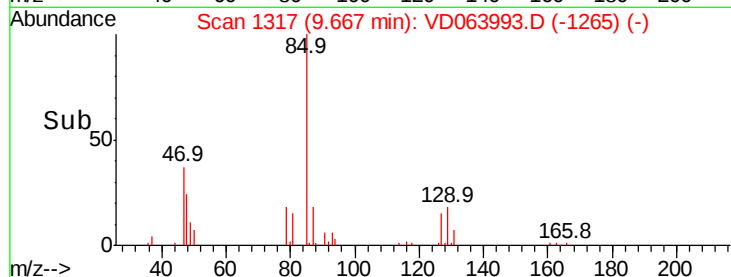
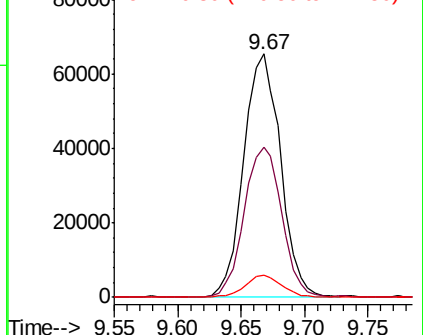
83 100

85 61.7 50.2 75.2

127 9.4 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: 43.403 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

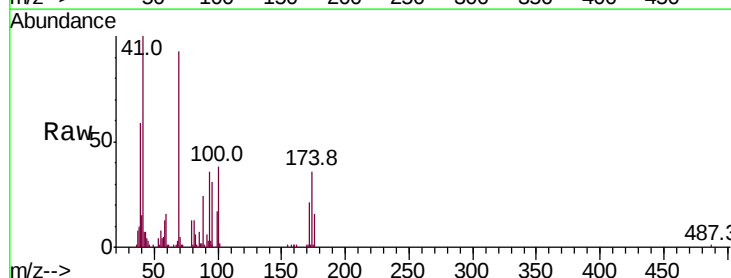
Tgt Ion: 41 Resp: 45848

Ion Ratio Lower Upper

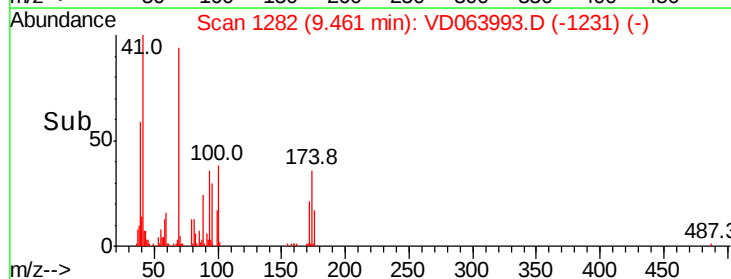
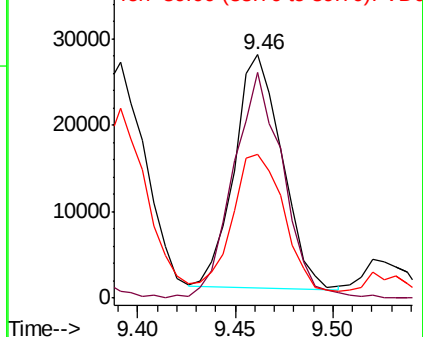
41 100

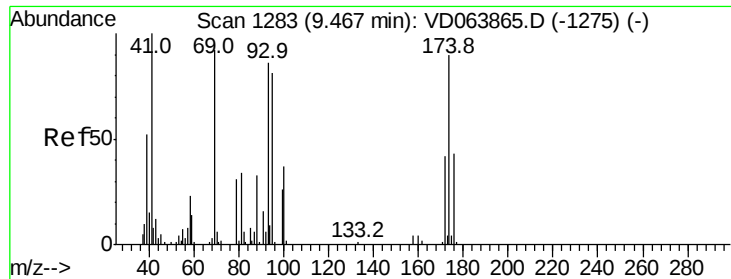
69 100.6 75.1 112.7

39 68.8 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: 1065.466 ug/l

RT: 9.47 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :
MSVOA_D
ClientSampled :

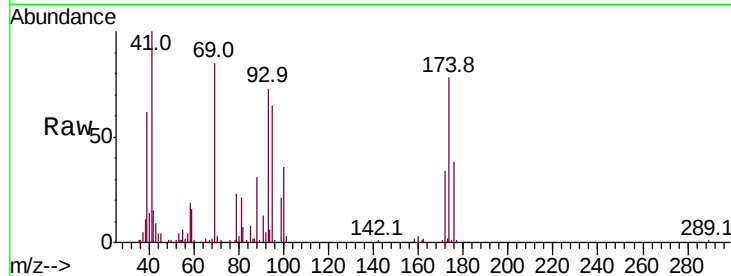
Tot Ion: 88 Resp: 15273

Ion Ratio Lower Upper

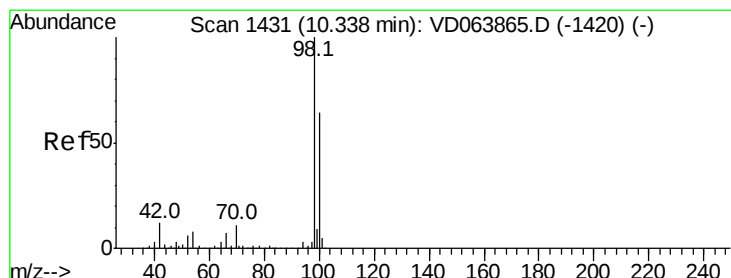
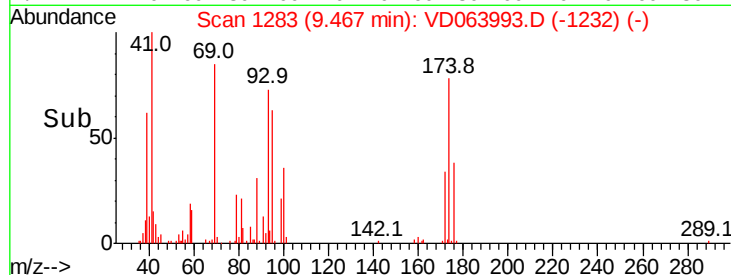
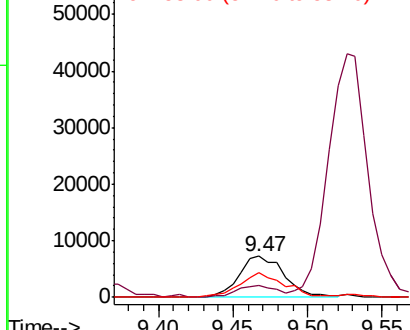
88 100

43 26.1 27.6 41.4#

58 59.1 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: 53.390 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD063993.D

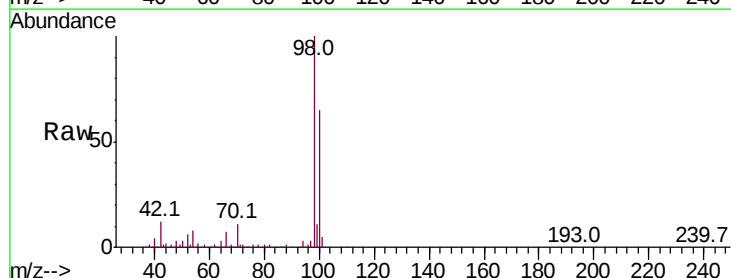
Acq: 16 Oct 2019 18:07

Tgt Ion: 98 Resp: 380776

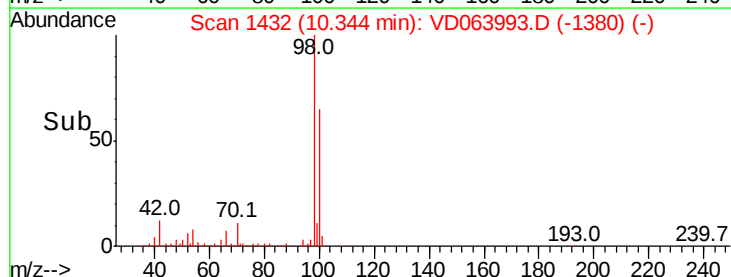
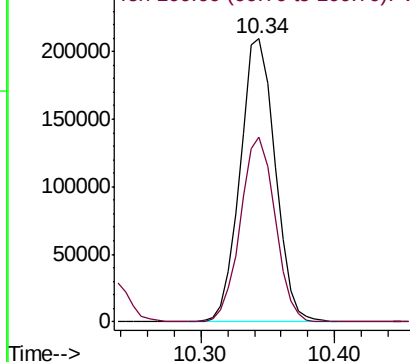
Ion Ratio Lower Upper

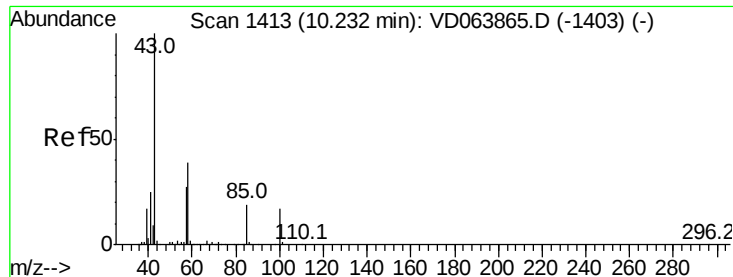
98 100

100 64.5 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: 246.220 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

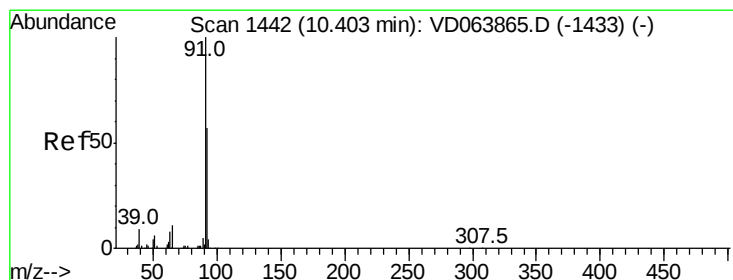
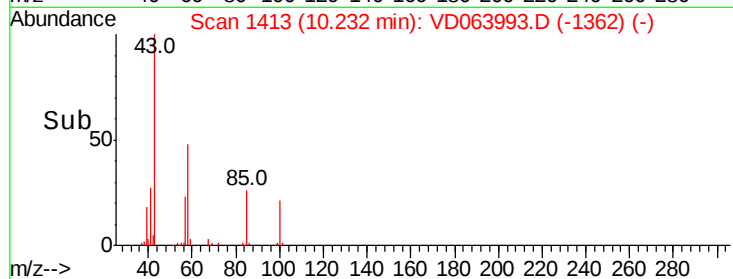
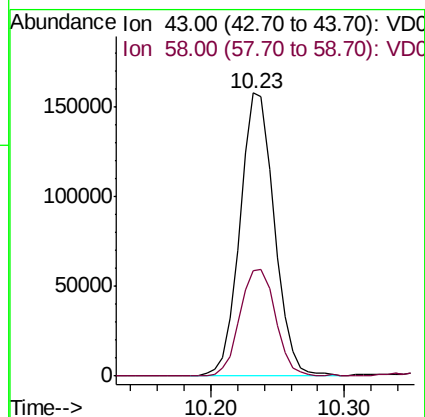
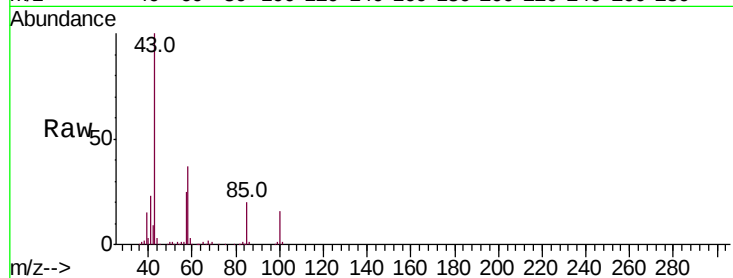
ClientSampleId :

Tot Ion: 43 Resp: 281525

Ion Ratio Lower Upper

43 100

58 39.1 33.0 49.4



#52

Toluene

Concen: 50.645 ug/l

RT: 10.41 min Scan# 1443

Delta R.T. 0.01 min

Lab File: VD063993.D

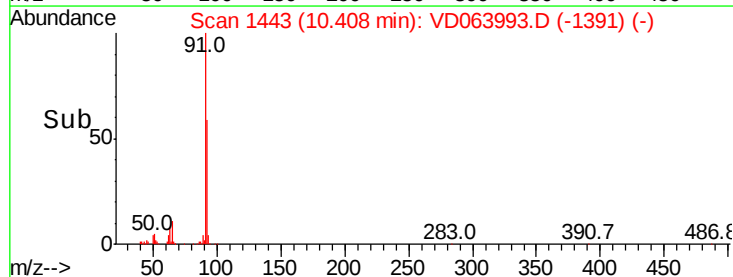
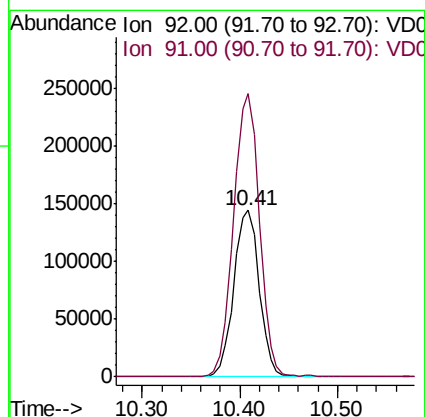
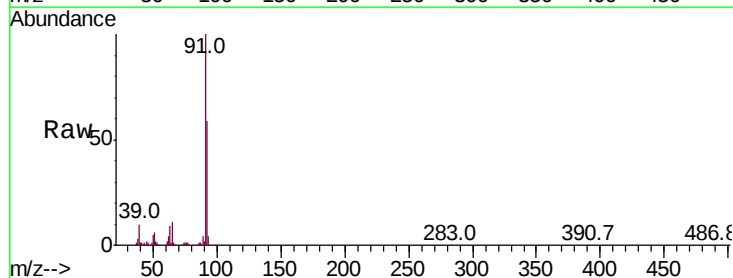
Acq: 16 Oct 2019 18:07

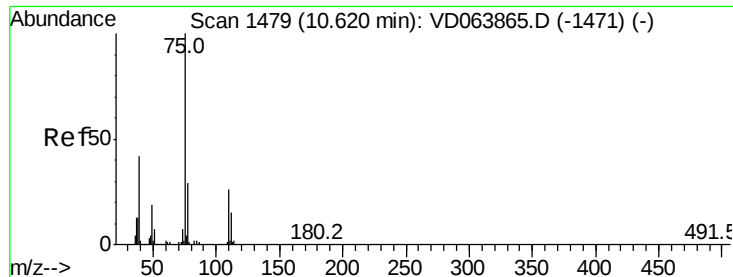
Tgt Ion: 92 Resp: 261916

Ion Ratio Lower Upper

92 100

91 172.7 139.5 209.3





#53

t-1,3-Dichloropropene

Concen: 48.420 ug/l

RT: 10.63 min Scan# 1480

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

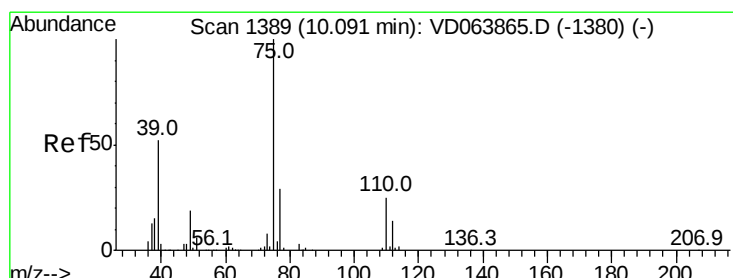
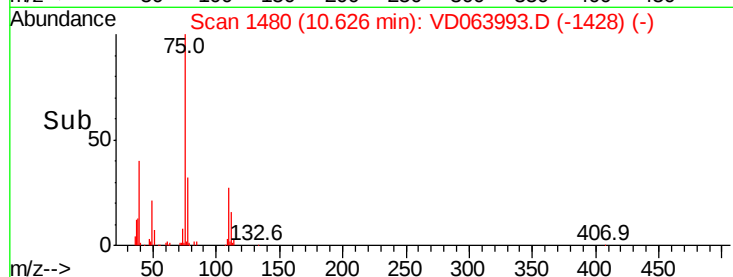
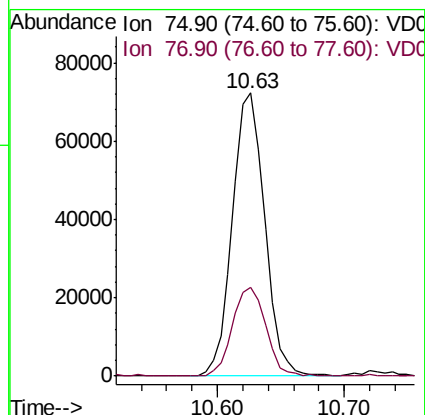
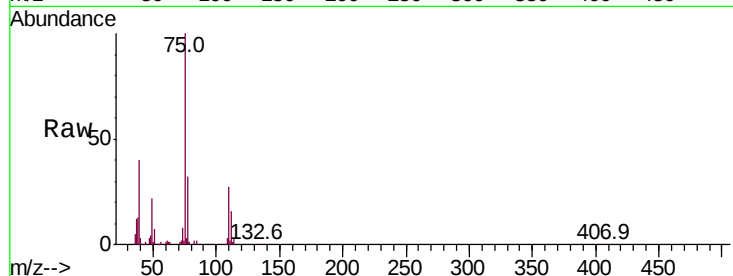
ClientSampleId :

Tot Ion: 75 Resp: 127751

Ion Ratio Lower Upper

75 100

77 31.6 22.8 34.2



#54

cis-1,3-Dichloropropene

Concen: 49.050 ug/l

RT: 10.10 min Scan# 1390

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

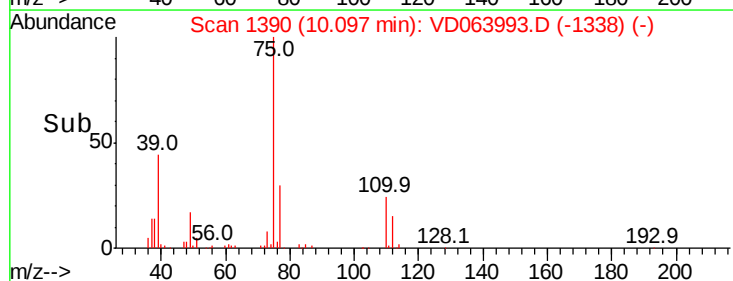
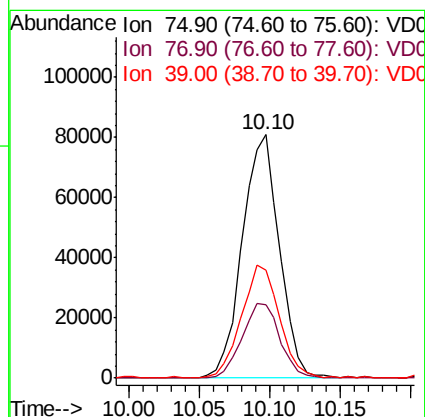
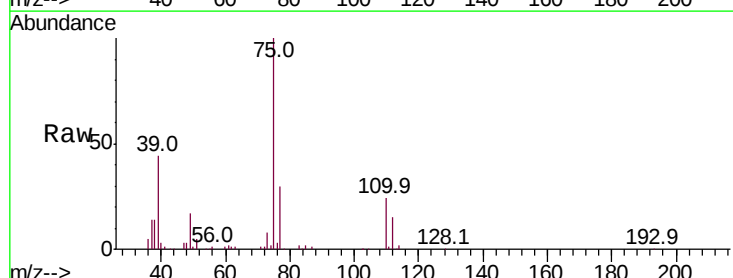
Tgt Ion: 75 Resp: 148966

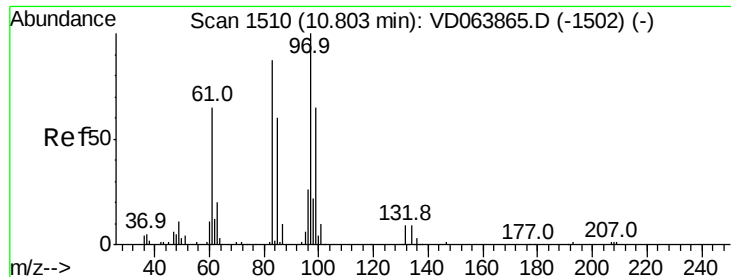
Ion Ratio Lower Upper

75 100

77 29.9 23.2 34.8

39 44.3 41.5 62.3

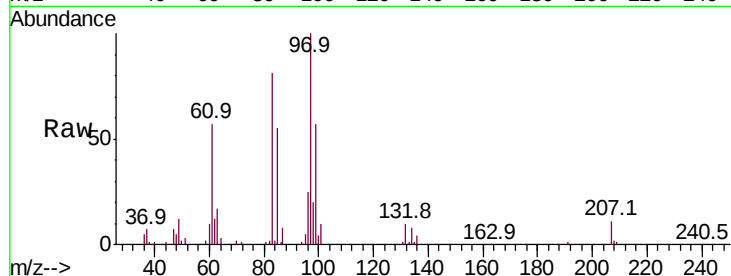




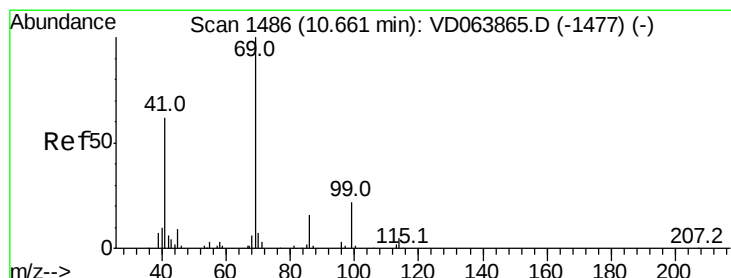
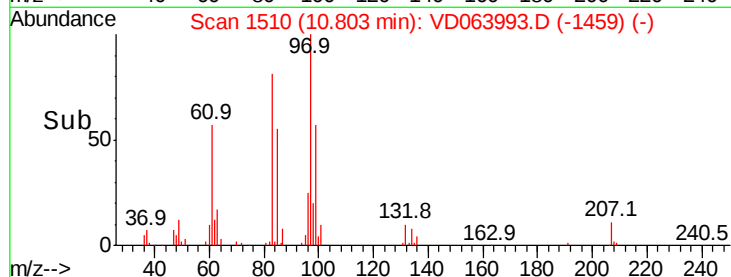
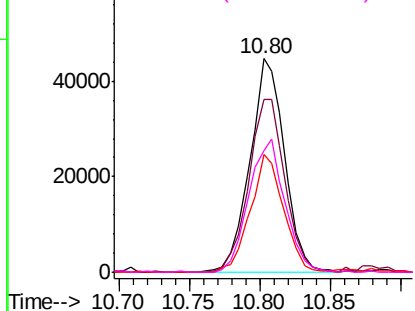
#55
 1,1,2-Trichloroethane
 Concen: 51.810 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. -0.00 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion: 97 Resp: 76823
 Ion Ratio Lower Upper
 97 100
 83 81.1 69.7 104.5
 85 55.0 48.1 72.1
 99 57.0 51.9 77.9

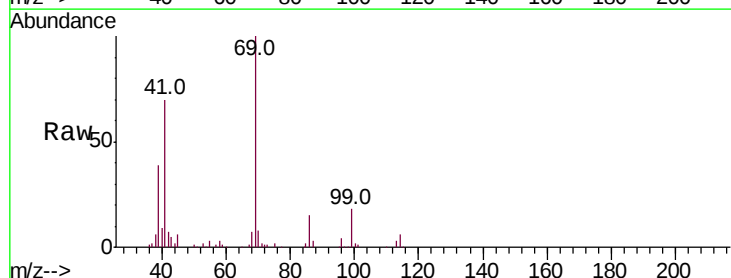


Abundance Ion 96.90 (96.60 to 97.60): VDC
 Ion 82.90 (82.60 to 83.60): VDC
 Ion 84.90 (84.60 to 85.60): VDC
 Ion 98.90 (98.60 to 99.60): VDC

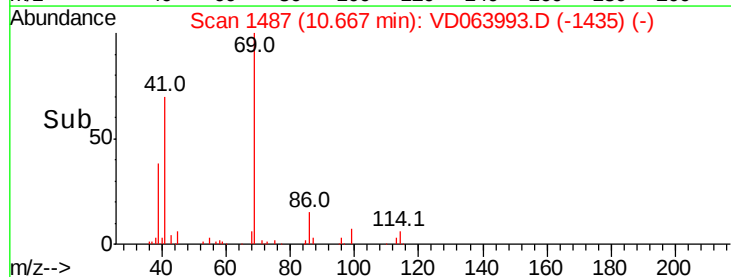
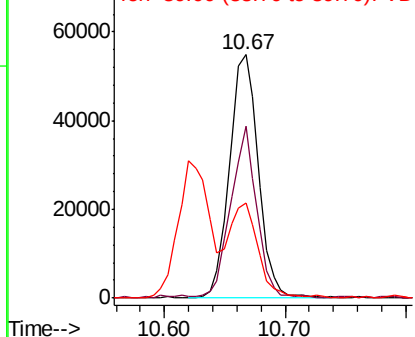


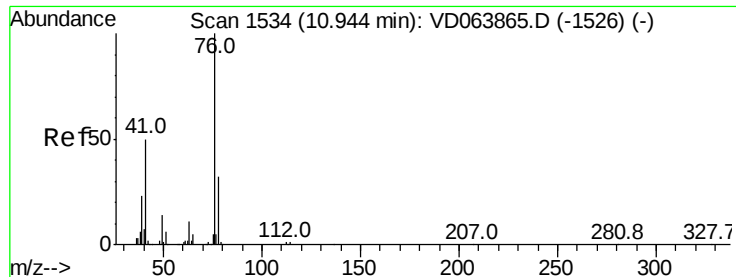
#56
 Ethyl methacrylate
 Concen: 48.803 ug/l
 RT: 10.67 min Scan# 1487
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Tgt Ion: 69 Resp: 91639
 Ion Ratio Lower Upper
 69 100
 41 63.8 51.3 76.9
 39 40.9 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: 50.518 ug/l

RT: 10.95 min Scan# 1535

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

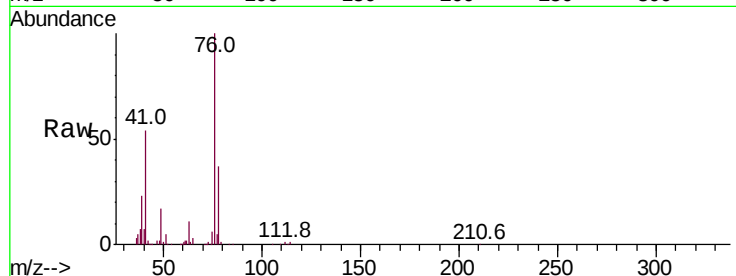
ClientSampleId :

Tot Ion: 76 Resp: 128162

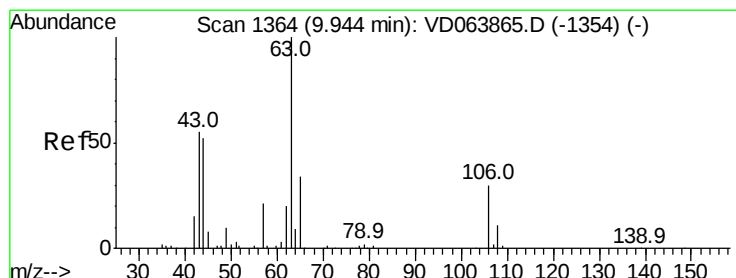
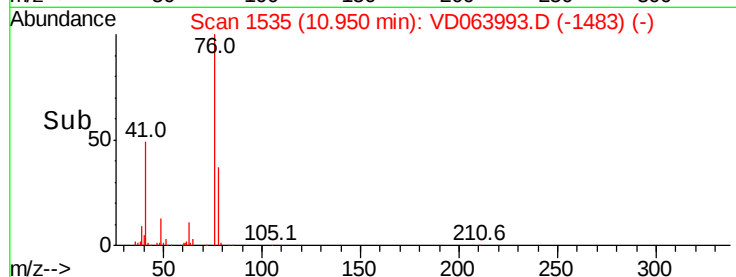
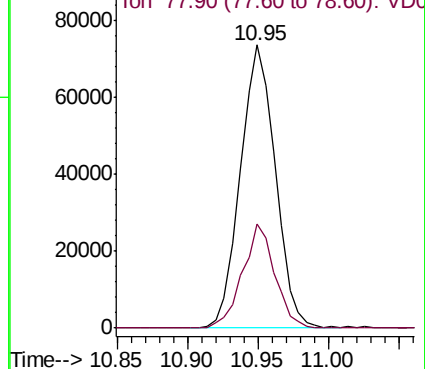
Ion Ratio Lower Upper

76 100

78 34.0 26.6 40.0



Abundance Ion 75.90 (75.60 to 76.60): VDC



#58

2-Chloroethyl Vinyl ether

Concen: 266.675 ug/l

RT: 9.94 min Scan# 1364

Delta R.T. -0.00 min

Lab File: VD063993.D

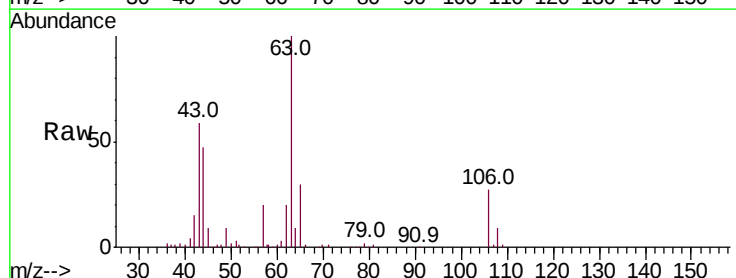
Acq: 16 Oct 2019 18:07

Tgt Ion: 63 Resp: 215238

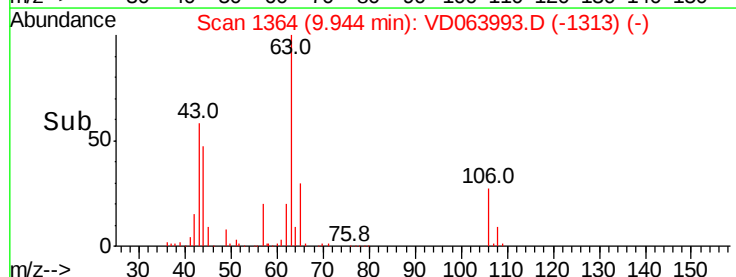
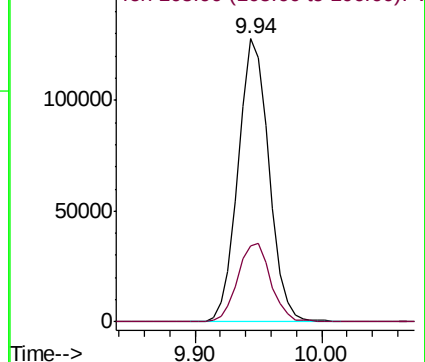
Ion Ratio Lower Upper

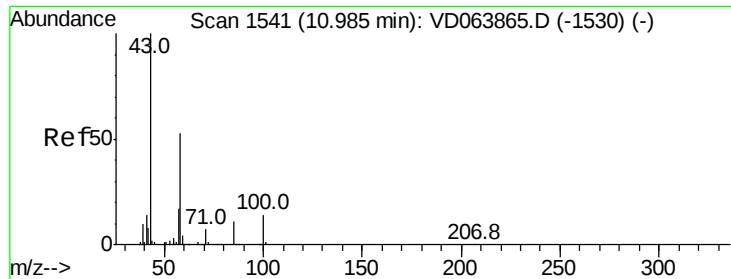
63 100

106 29.8 24.3 36.5



Abundance Ion 62.90 (62.60 to 63.60): VDC

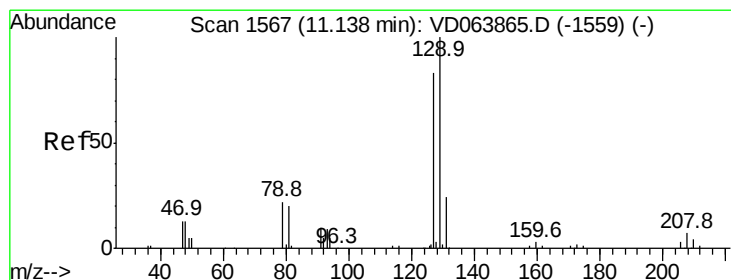
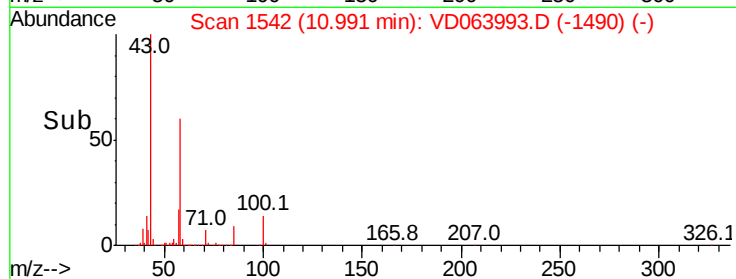
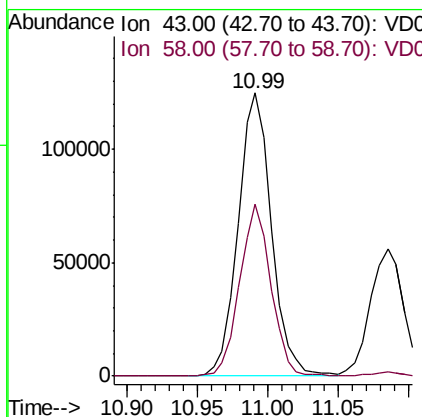
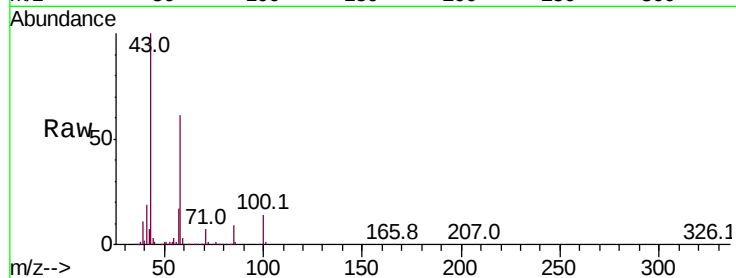




#59
2-Hexanone
Concen: 249.205 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

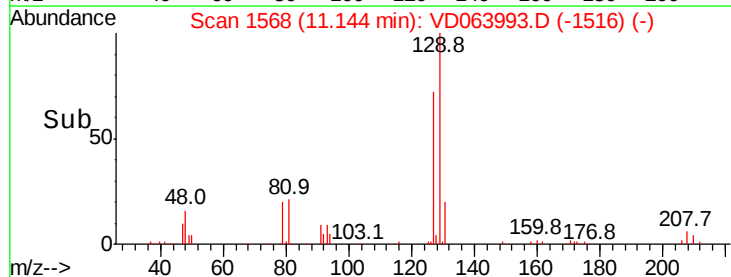
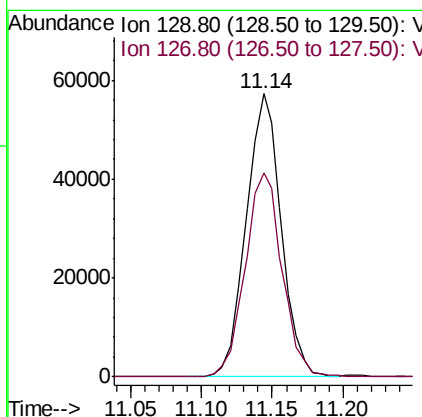
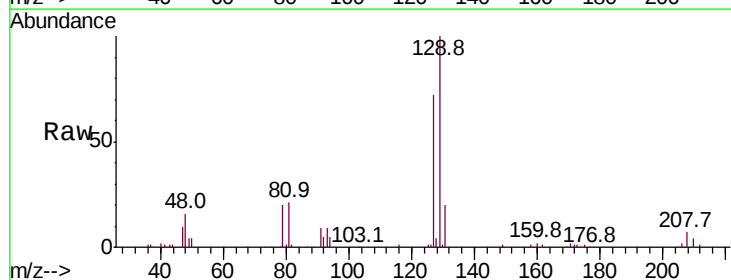
Instrument :
MSVOA_D
ClientSampled :

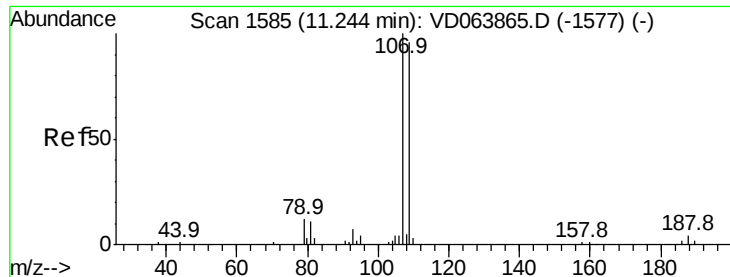
Tot Ion: 43 Resp: 206116
Ion Ratio Lower Upper
43 100
58 57.1 27.7 83.0



#60
Dibromochloromethane
Concen: 51.484 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion: 129 Resp: 99385
Ion Ratio Lower Upper
129 100
127 76.0 39.9 119.6

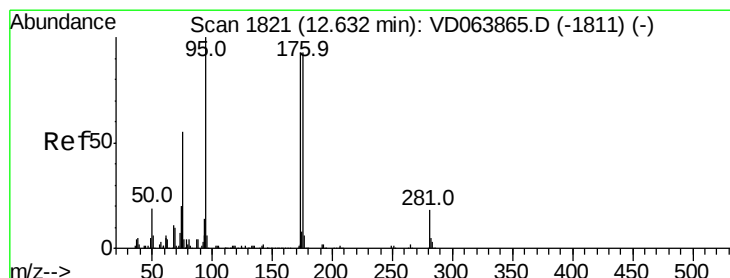
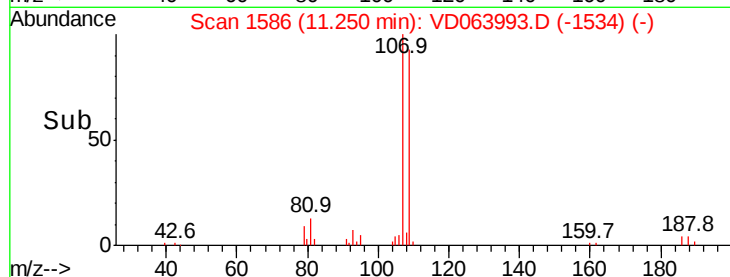
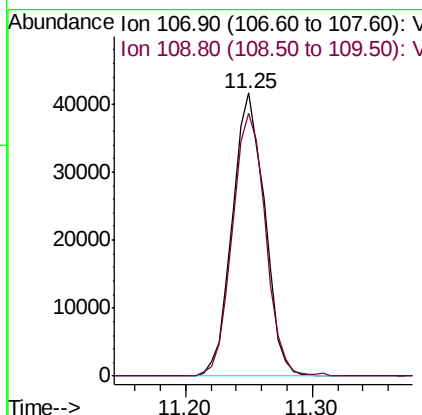
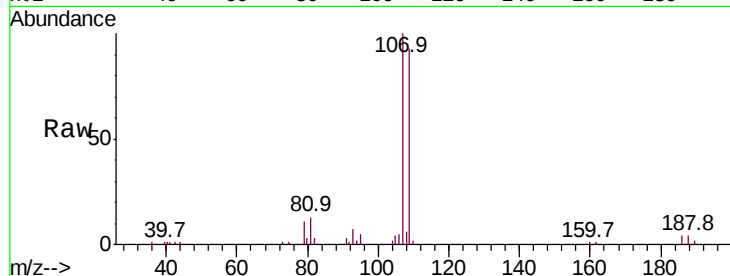




#61
 1,2-Dibromoethane
 Concen: 51.165 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

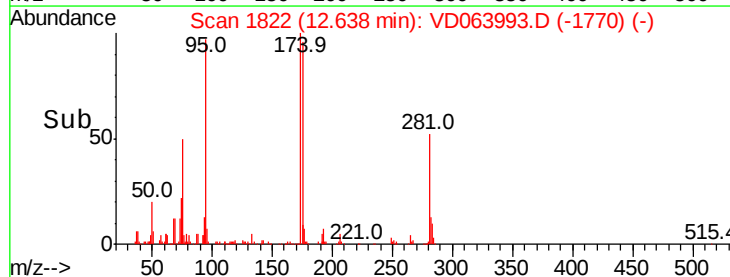
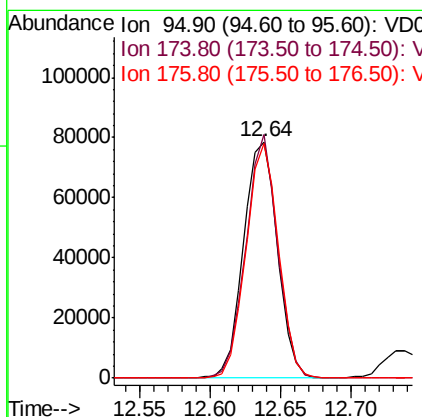
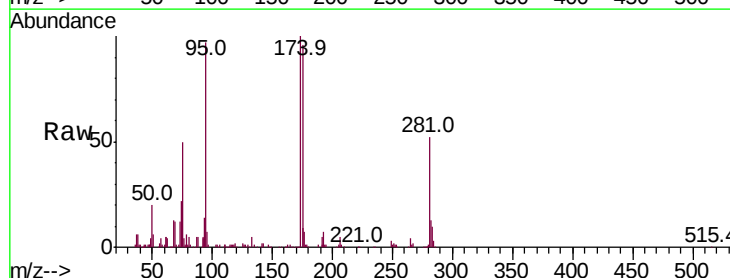
Instrument :
 MSVOA_D
 ClientSampleId :

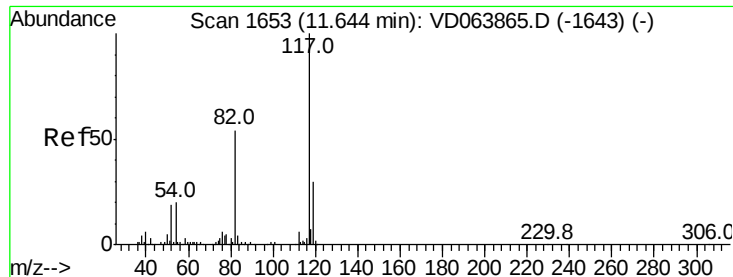
Tot Ion:107 Resp: 73549
 Ion Ratio Lower Upper
 107 100
 109 95.0 75.2 112.8



#62
 4-Bromofluorobenzene
 Concen: 53.606 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Tgt Ion: 95 Resp: 132854
 Ion Ratio Lower Upper
 95 100
 174 96.4 0.0 186.4
 176 94.8 0.0 184.2

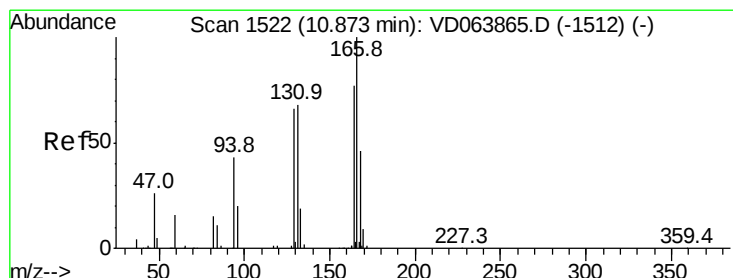
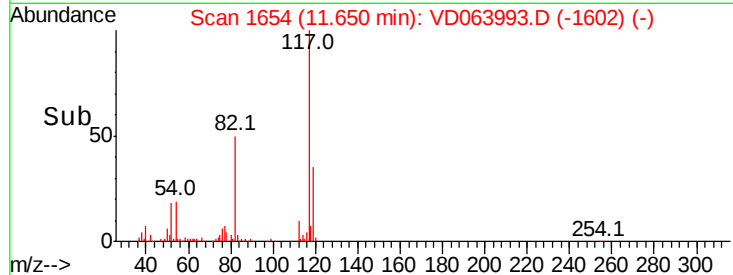
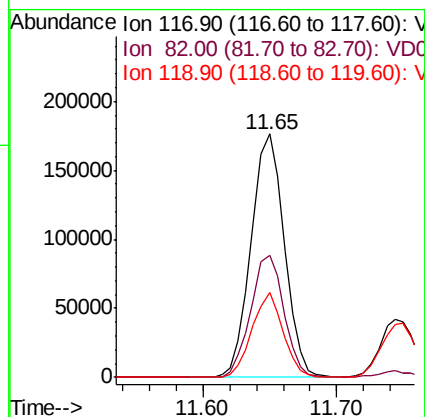
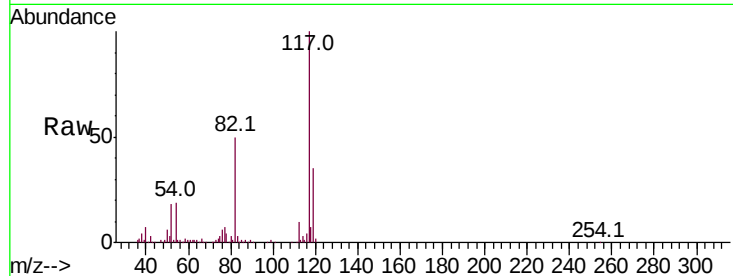




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

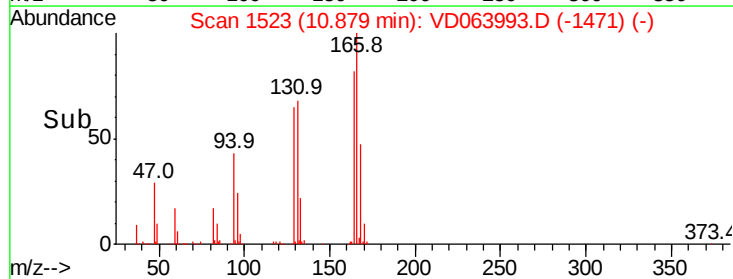
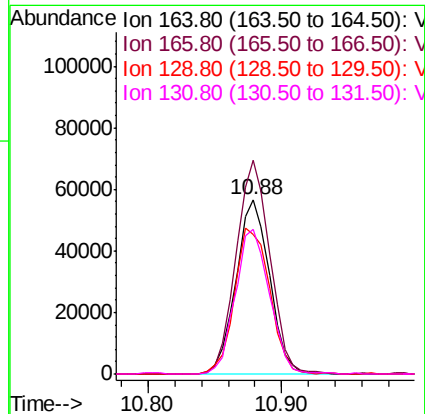
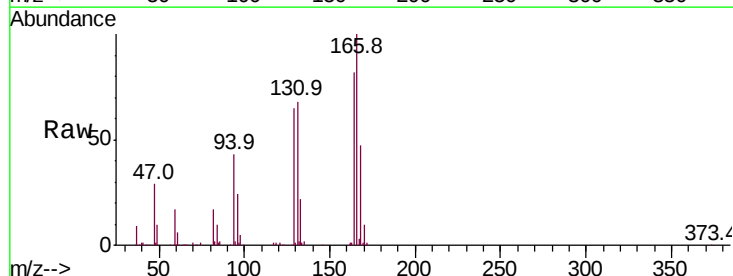
Instrument :
MSVOA_D
ClientSampleId :

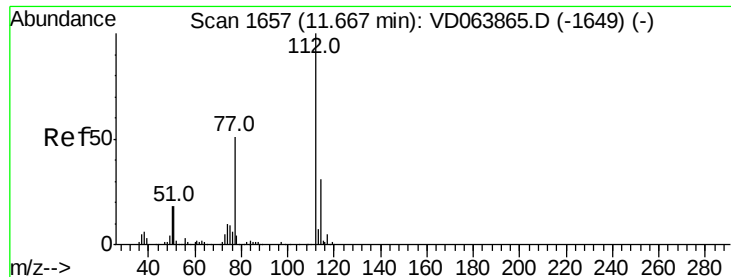
Tot Ion:117 Resp: 303070
Ion Ratio Lower Upper
117 100
82 49.9 42.8 64.2
119 34.9 24.4 36.6



#64
Tetrachloroethene
Concen: 47.775 ug/l
RT: 10.88 min Scan# 1523
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion:164 Resp: 98845
Ion Ratio Lower Upper
164 100
166 122.4 103.8 155.6
129 80.0 68.9 103.3
131 83.1 70.9 106.3





#65

Chlorobenzene

Concen: 48.279 ug/l

RT: 11.67 min Scan# 1658

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

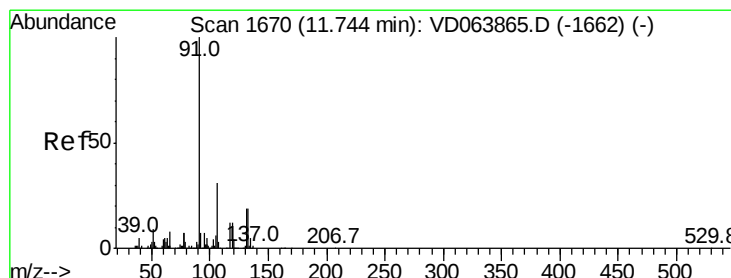
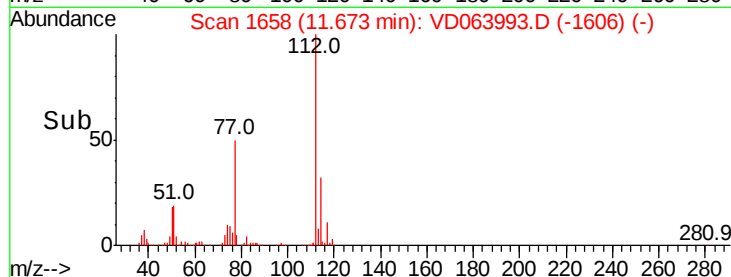
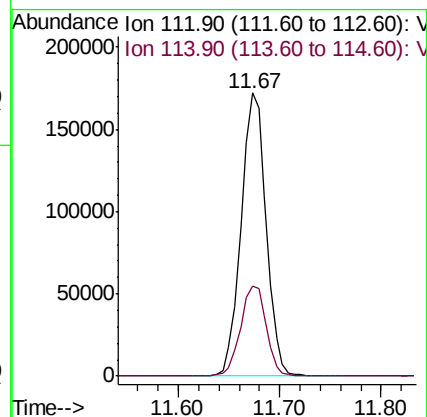
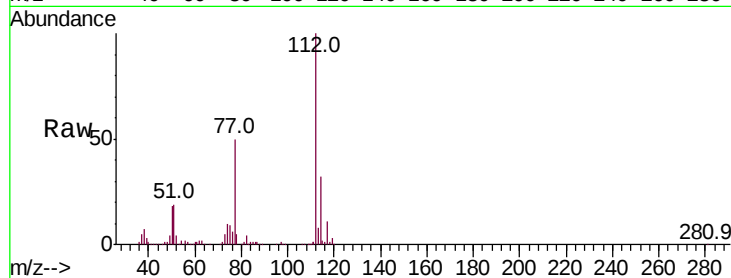
ClientSampleId :

Tot Ion:112 Resp: 293849

Ion Ratio Lower Upper

112 100

114 31.9 25.1 37.7



#66

1,1,1,2-Tetrachloroethane

Concen: 48.359 ug/l

RT: 11.74 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

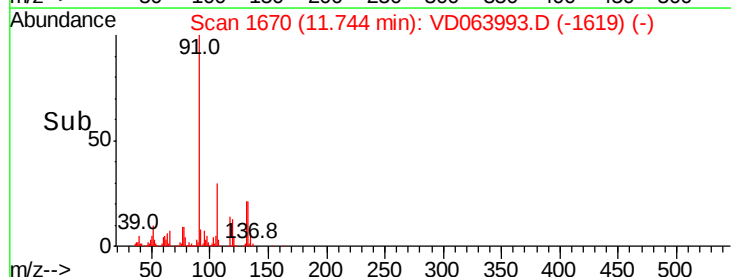
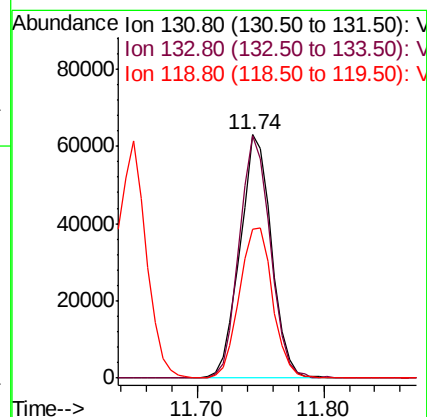
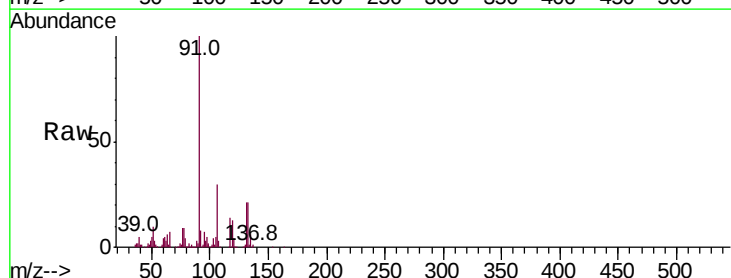
Tgt Ion:131 Resp: 108456

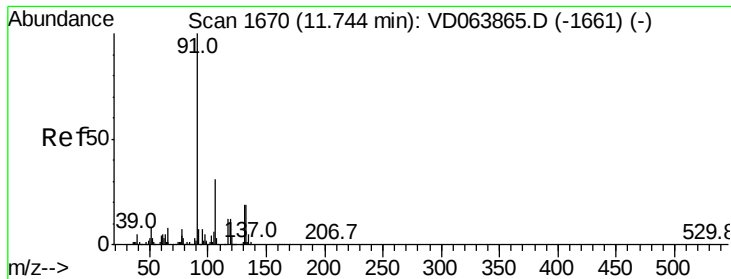
Ion Ratio Lower Upper

131 100

133 98.0 48.9 146.7

119 65.2 32.6 97.8





#67

Ethyl Benzene

Concen: 47.857 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

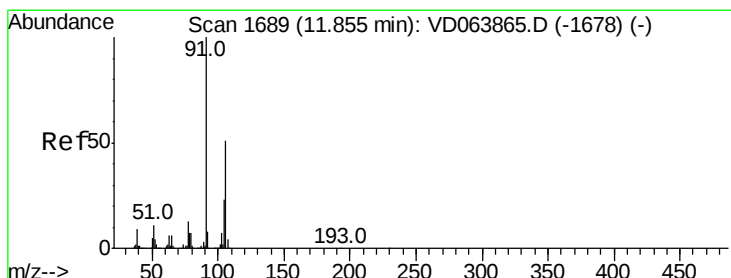
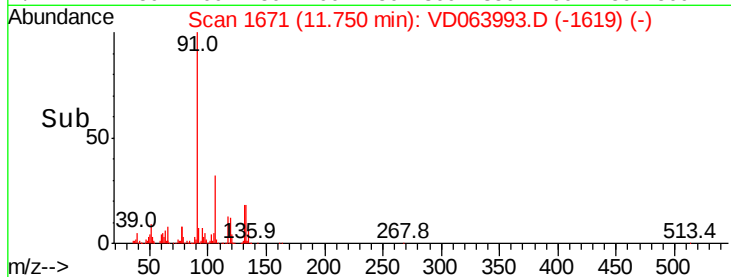
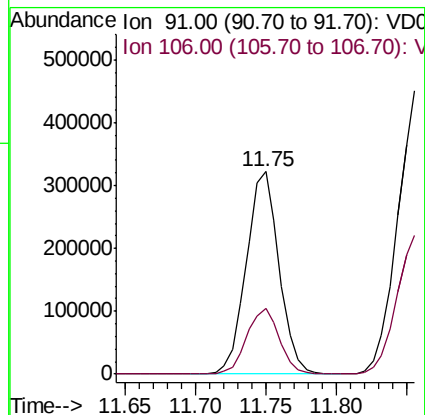
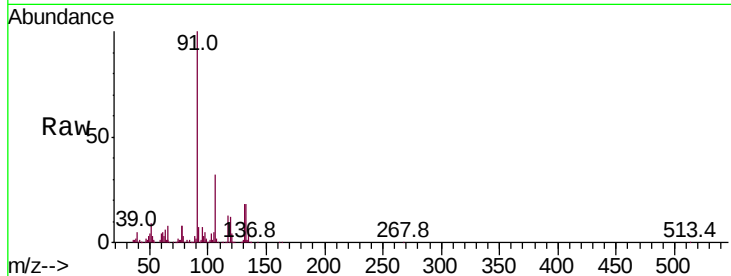
ClientSampleId :

Tot Ion: 91 Resp: 525238

Ion Ratio Lower Upper

91 100

106 32.5 24.6 37.0



#68

m/p-Xylenes

Concen: 99.048 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.00 min

Lab File: VD063993.D

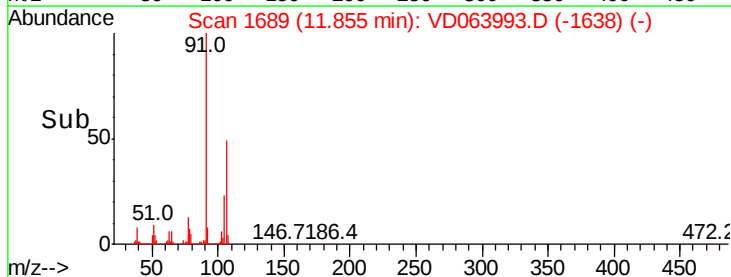
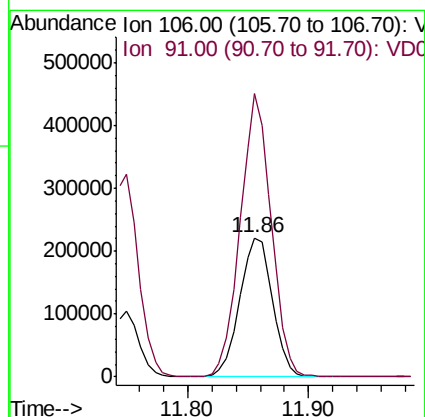
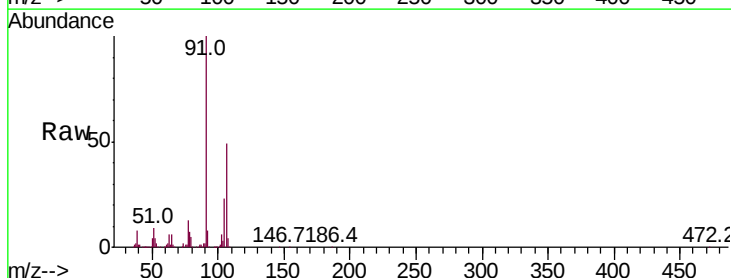
Acq: 16 Oct 2019 18:07

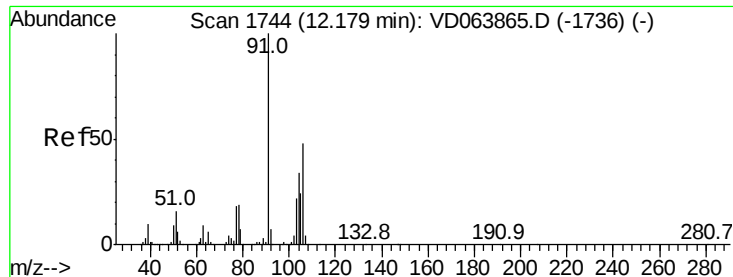
Tgt Ion: 106 Resp: 419582

Ion Ratio Lower Upper

106 100

91 192.2 154.8 232.2

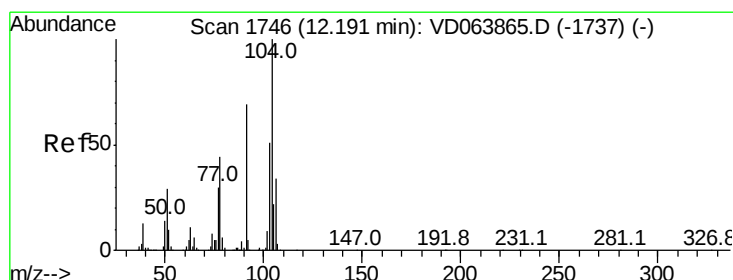
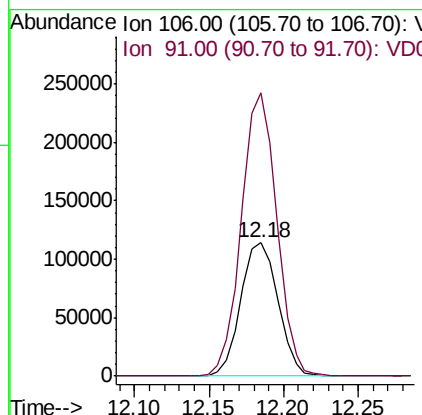
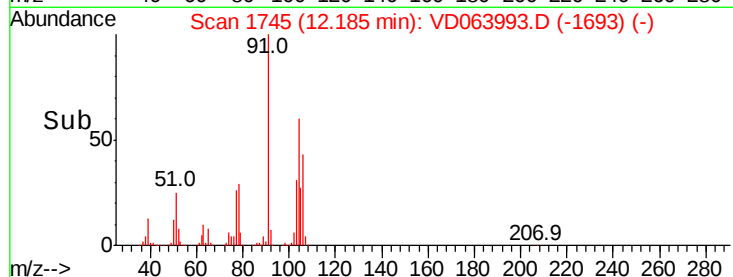
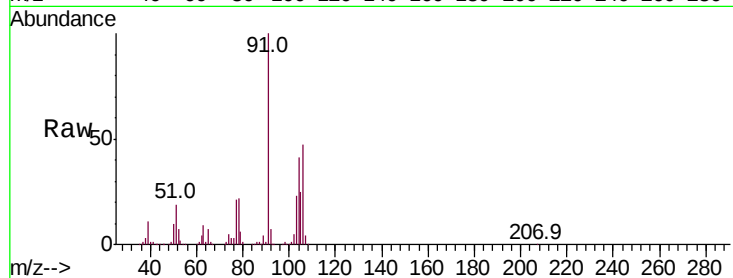




#69
o-Xylene
Concen: 48.847 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

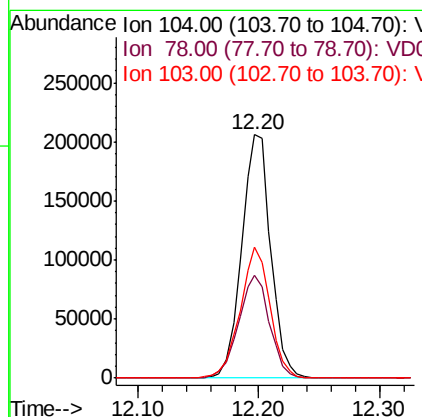
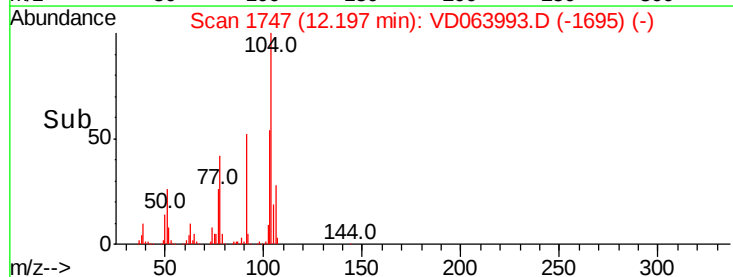
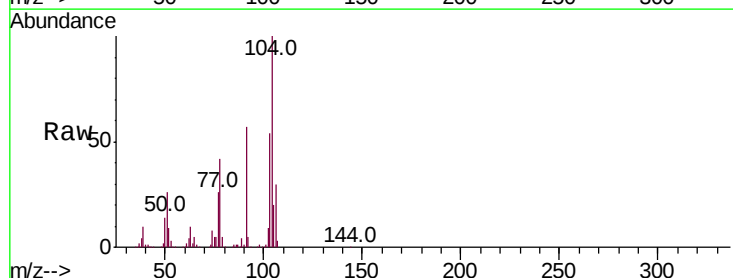
Instrument :
MSVOA_D
ClientSampleId :

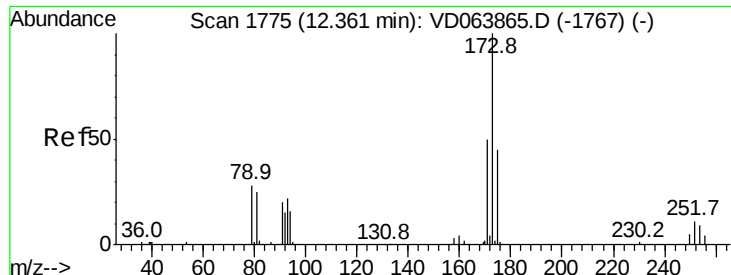
Tot Ion:106 Resp: 198136
Ion Ratio Lower Upper
106 100
91 201.5 103.9 311.7



#70
Styrene
Concen: 50.281 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion:104 Resp: 345269
Ion Ratio Lower Upper
104 100
78 44.9 37.0 55.4
103 55.3 44.2 66.4

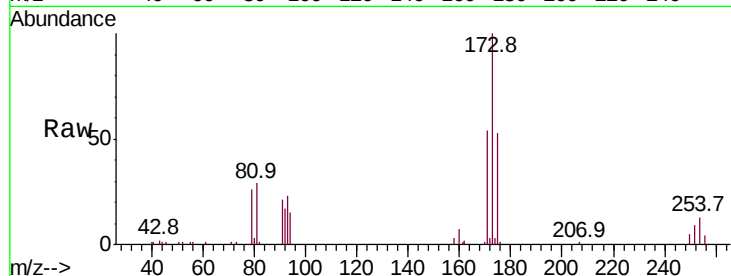




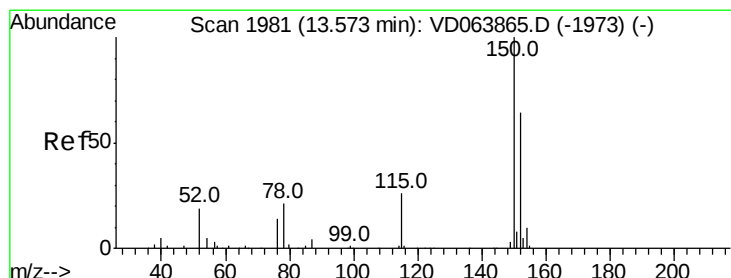
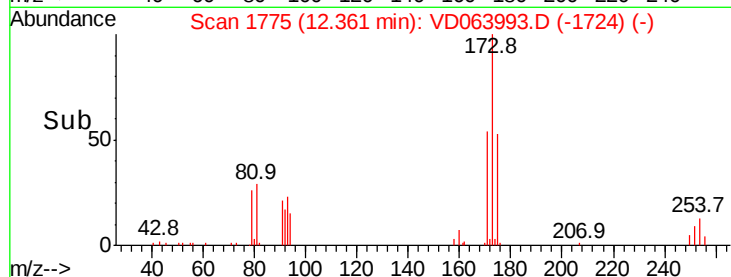
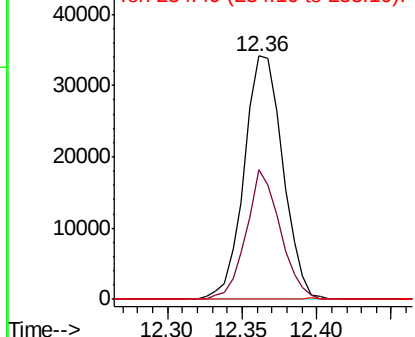
#71
Bromoform
Concen: 50.822 ug/l
RT: 12.36 min Scan# 1775
Delta R.T. -0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:173 Resp: 61170
Ion Ratio Lower Upper
173 100
175 47.0 24.6 74.0
254 0.0 0.0 0.0

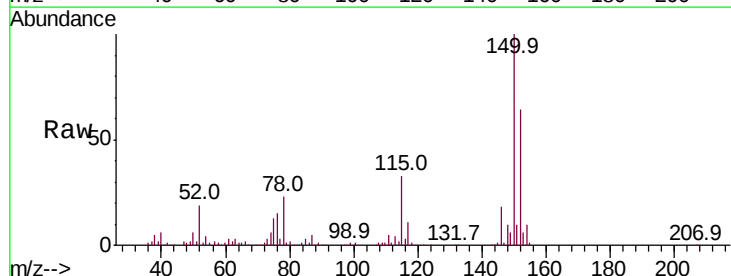


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

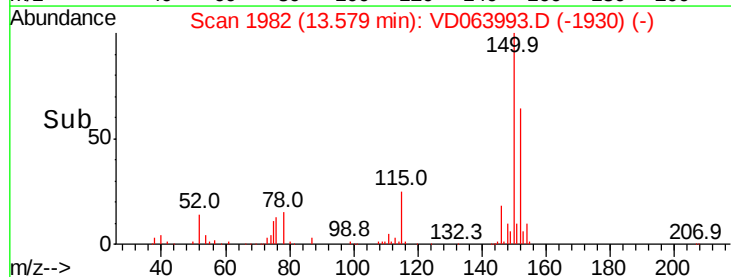
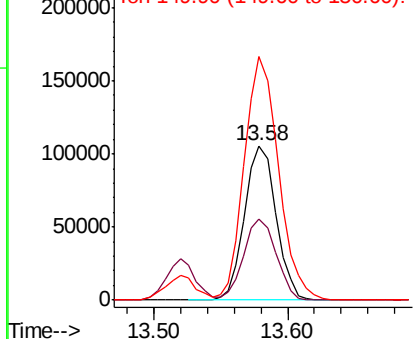


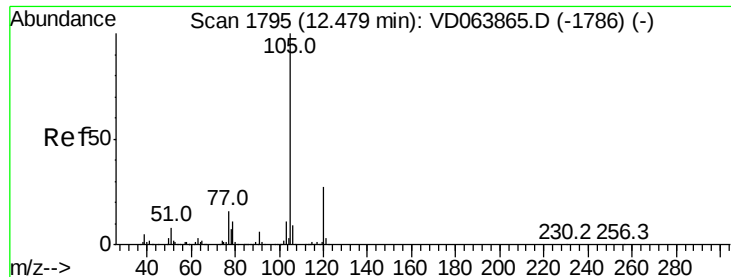
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion:152 Resp: 172068
Ion Ratio Lower Upper
152 100
115 53.8 25.9 77.7
150 171.4 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: 45.965 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

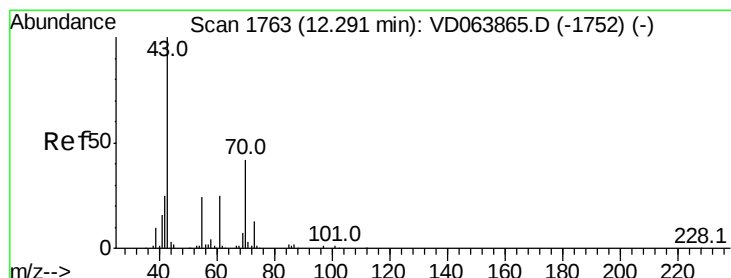
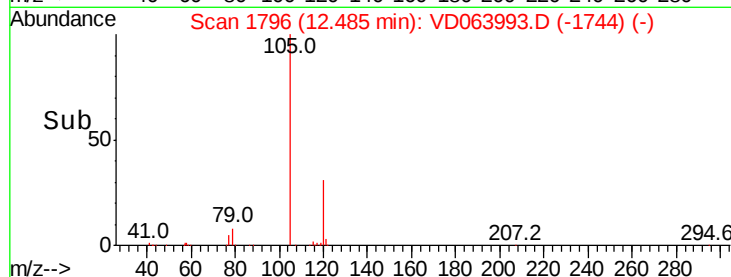
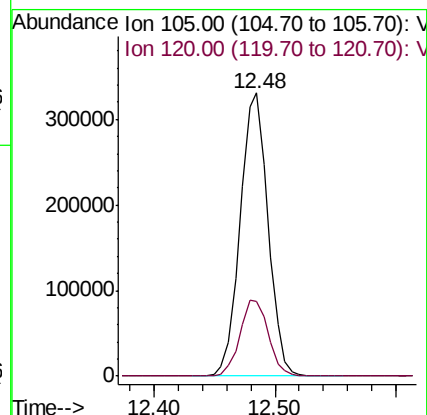
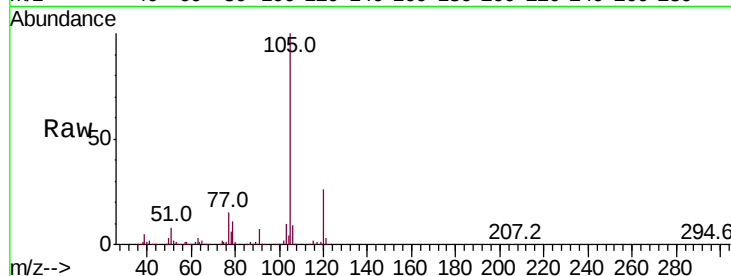
ClientSampleId :

Tot Ion:105 Resp: 531686

Ion Ratio Lower Upper

105 100

120 27.5 13.3 39.8



#74

N-ethyl acetate

Concen: 42.283 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Tgt Ion: 43 Resp: 105305

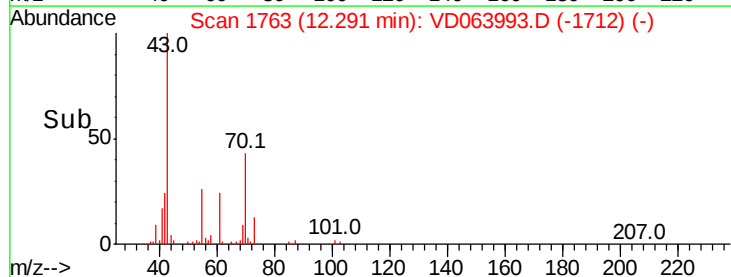
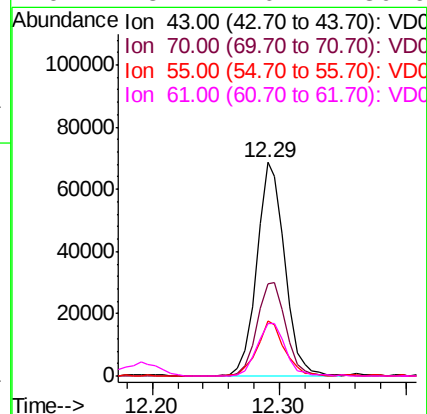
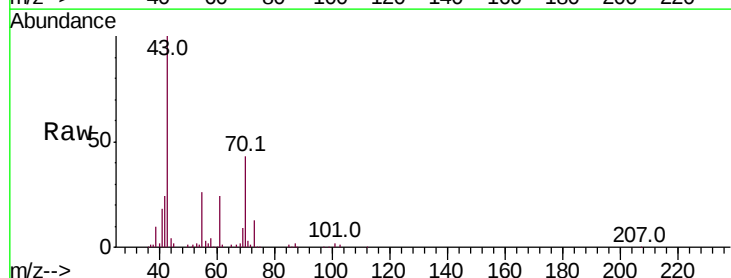
Ion Ratio Lower Upper

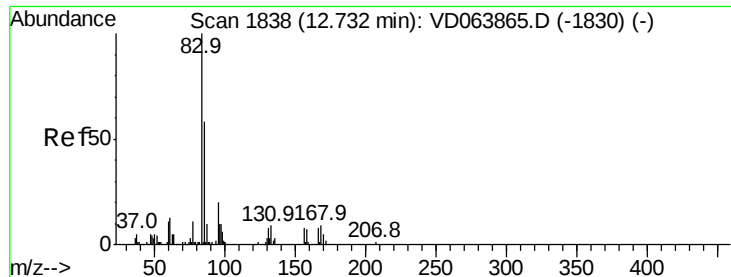
43 100

70 45.3 35.8 53.6

55 25.4 19.4 29.0

61 25.1 20.4 30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 44.350 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampleId :

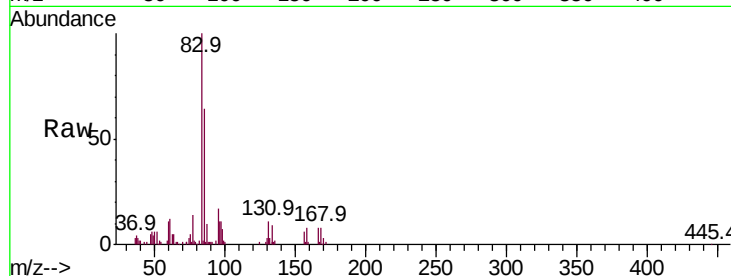
Tot Ion: 83 Resp: 89271

Ion Ratio Lower Upper

83 100

131 11.6 5.6 16.8

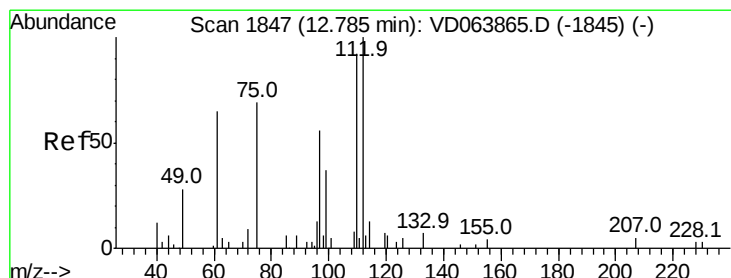
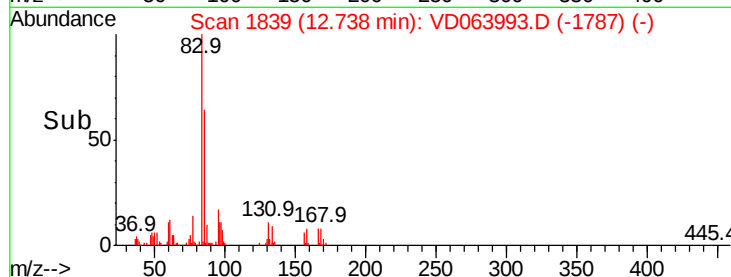
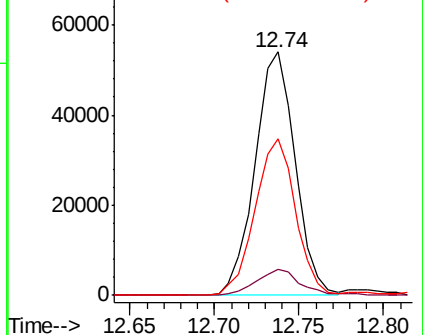
85 64.9 32.3 96.8



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: 98.090 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.01 min

Lab File: VD063993.D

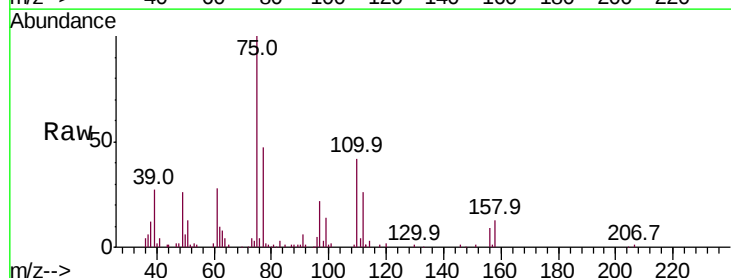
Acq: 16 Oct 2019 18:07

Tgt Ion: 75 Resp: 113045

Ion Ratio Lower Upper

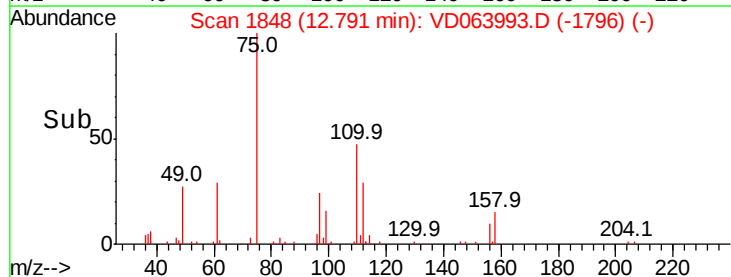
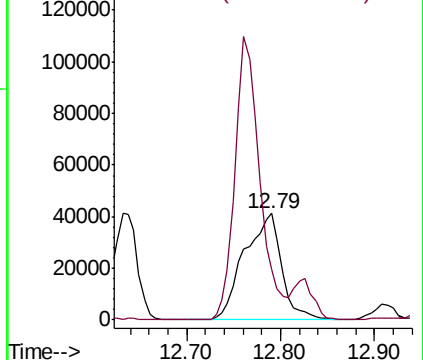
75 100

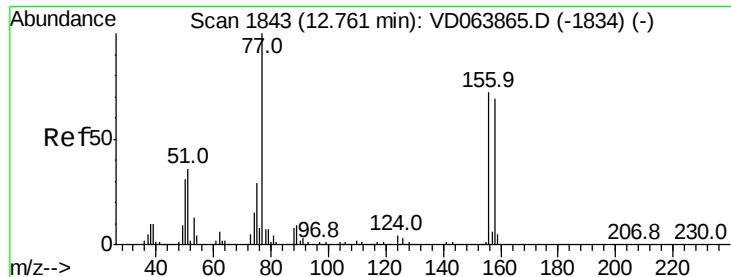
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 45.863 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampleId :

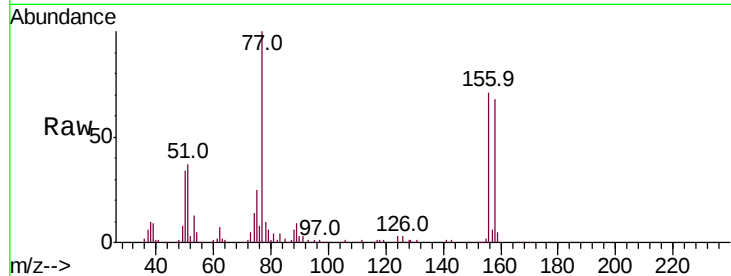
Tot Ion:156 Resp: 132173

Ion Ratio Lower Upper

156 100

77 154.1 80.3 241.0

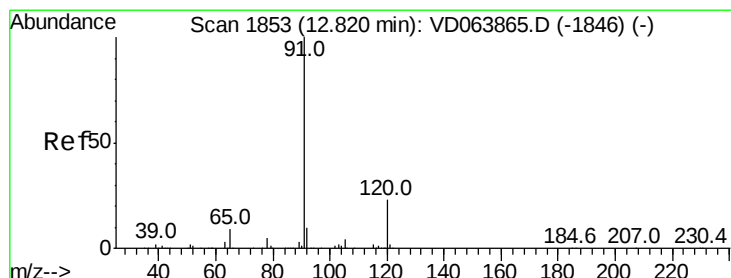
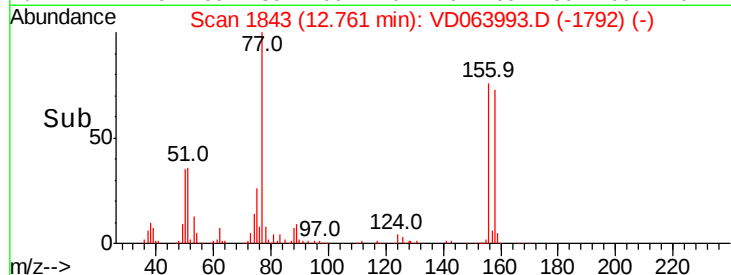
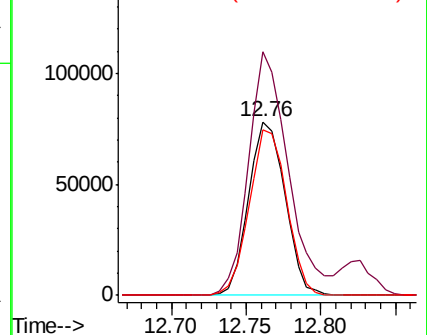
158 97.7 47.4 142.2



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: 46.762 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VD063993.D

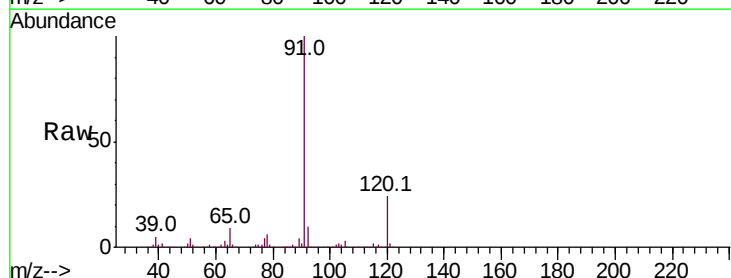
Acq: 16 Oct 2019 18:07

Tgt Ion: 91 Resp: 634914

Ion Ratio Lower Upper

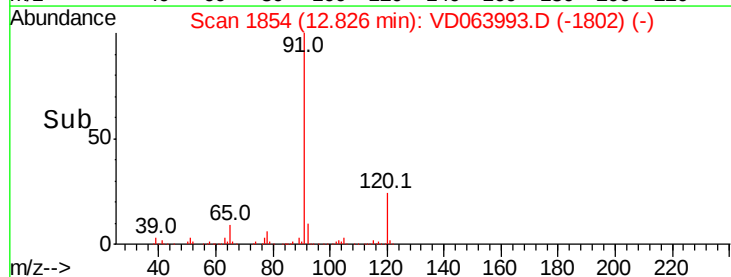
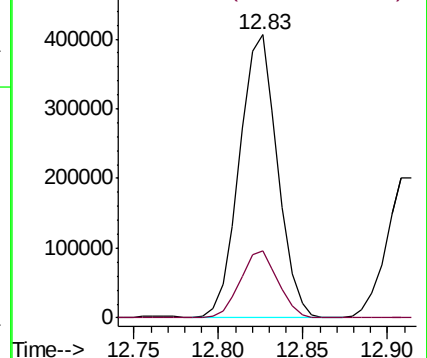
91 100

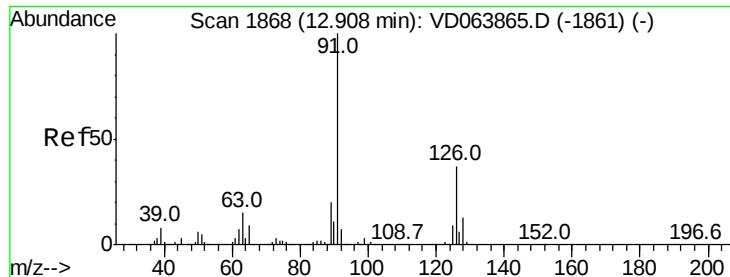
120 23.8 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

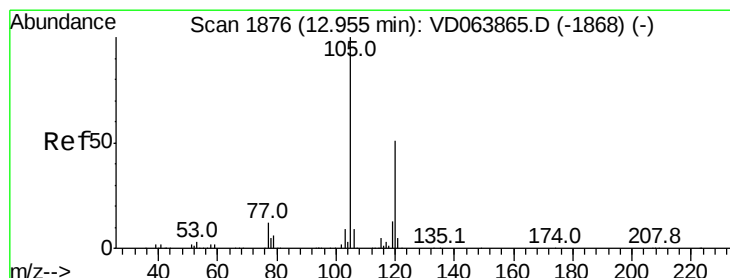
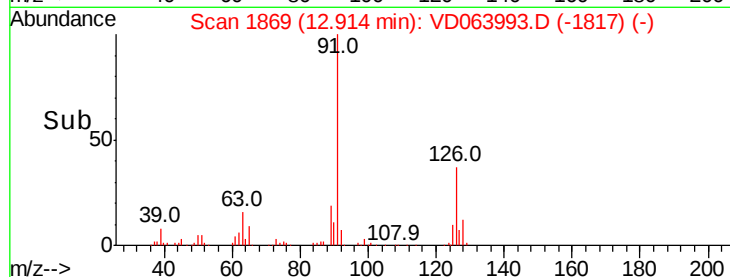
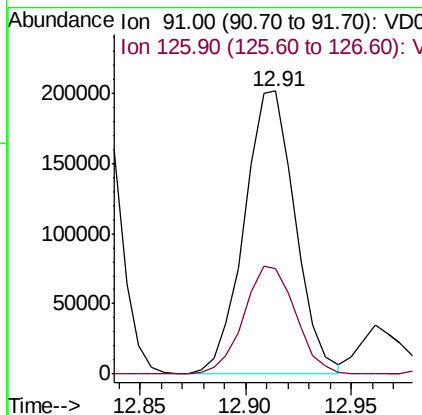
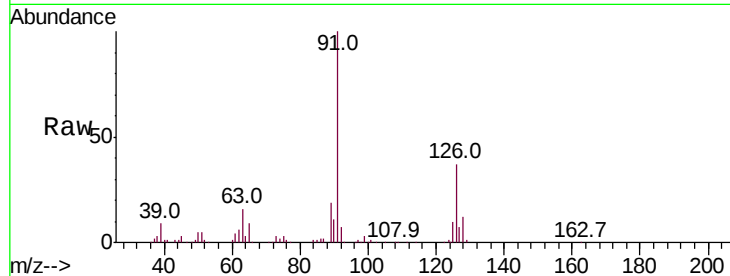




#79
 2-Chlorotoluene
 Concen: 45.046 ug/l
 RT: 12.91 min Scan# 1869
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

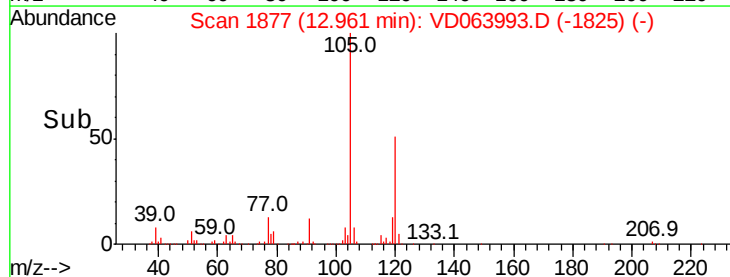
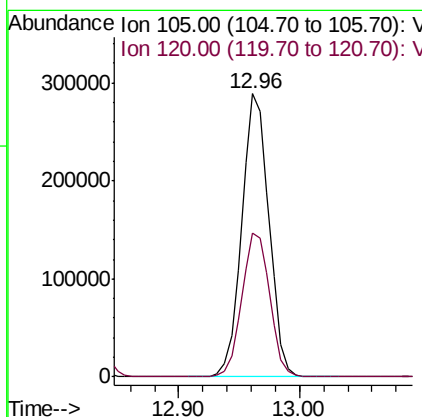
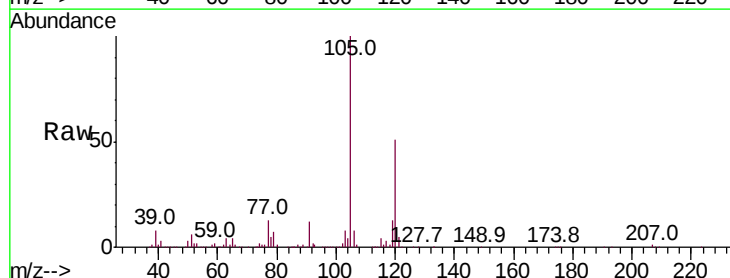
Instrument :
 MSVOA_D
 ClientSampleId :

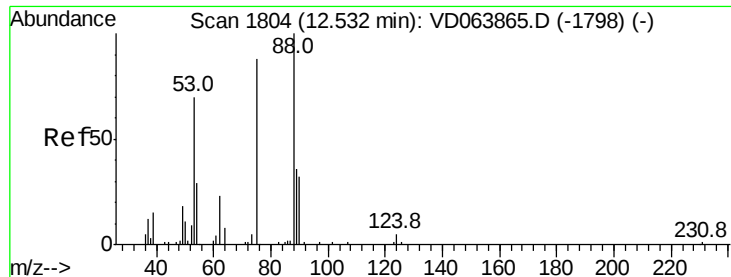
Tot Ion: 91 Resp: 337242
 Ion Ratio Lower Upper
 91 100
 126 38.8 18.4 55.2



#80
 1,3,5-Trimethylbenzene
 Concen: 46.984 ug/l
 RT: 12.96 min Scan# 1877
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Tgt Ion: 105 Resp: 453412
 Ion Ratio Lower Upper
 105 100
 120 52.1 25.9 77.8

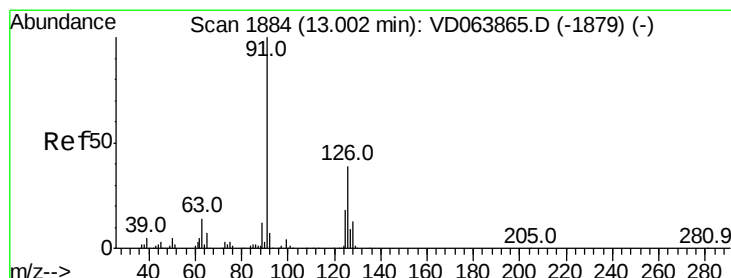
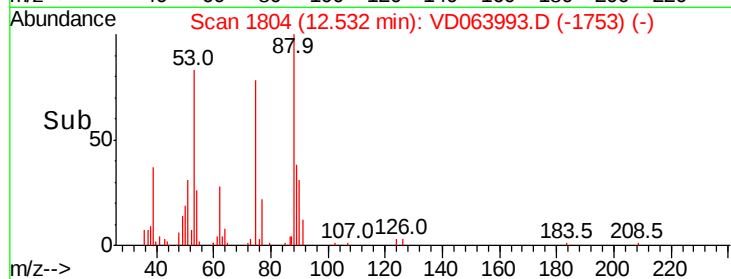
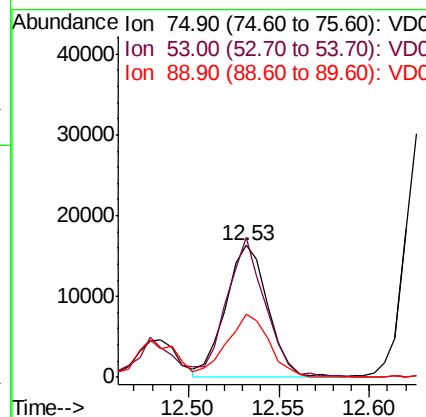
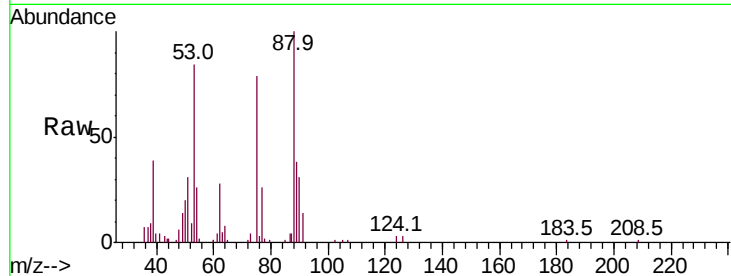




#81
trans-1,4-Dichloro-2-butene
Concen: 40.537 ug/l
RT: 12.53 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

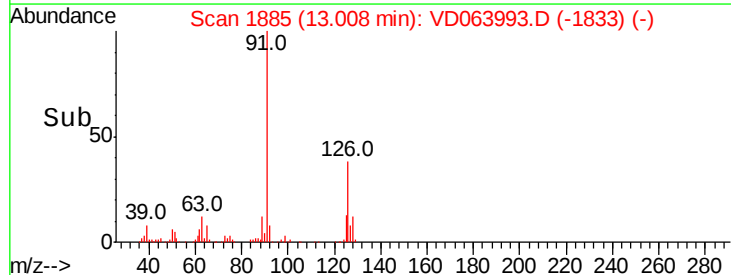
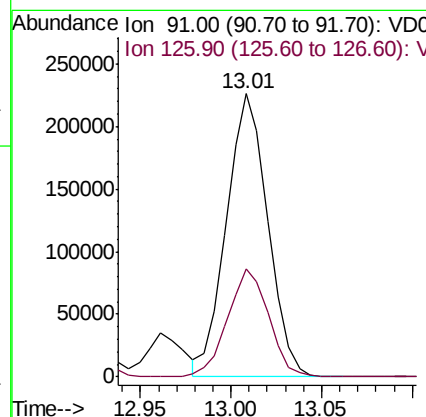
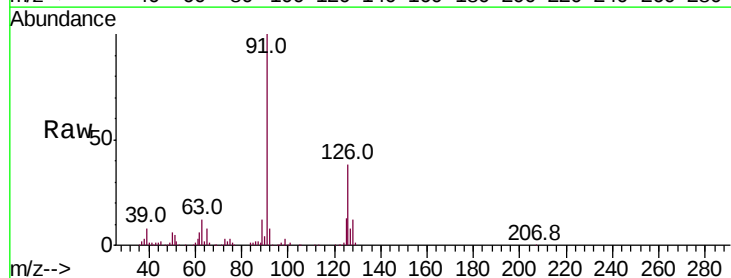
Instrument :
MSVOA_D
ClientSampleId :

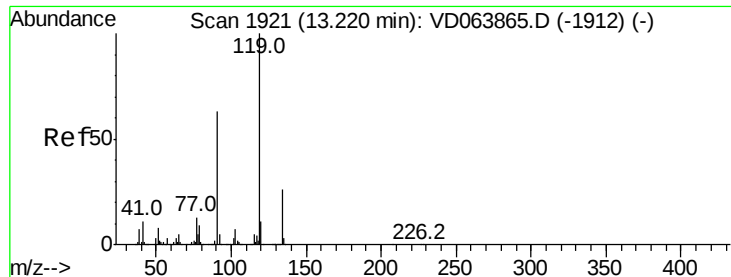
Tot Ion: 75 Resp: 26400
Ion Ratio Lower Upper
75 100
53 95.7 75.0 112.6
89 48.3 38.2 57.4



#82
4-Chlorotoluene
Concen: 44.995 ug/l
RT: 13.01 min Scan# 1885
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion: 91 Resp: 357343
Ion Ratio Lower Upper
91 100
126 38.1 18.6 55.8

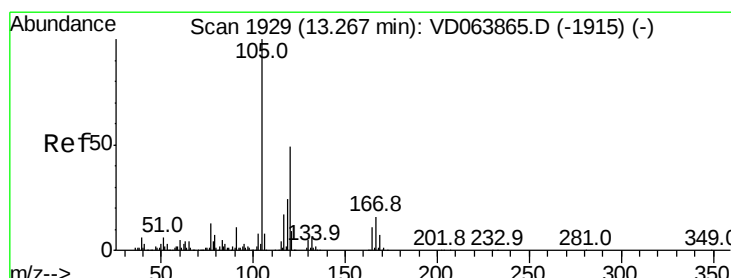
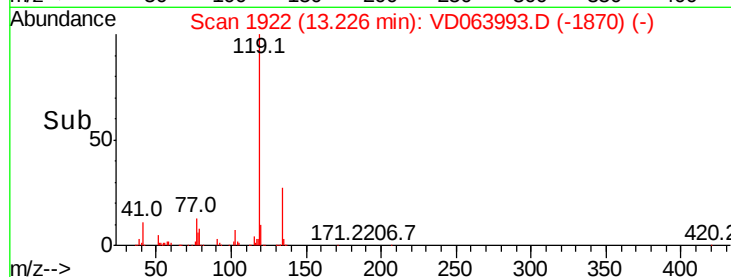
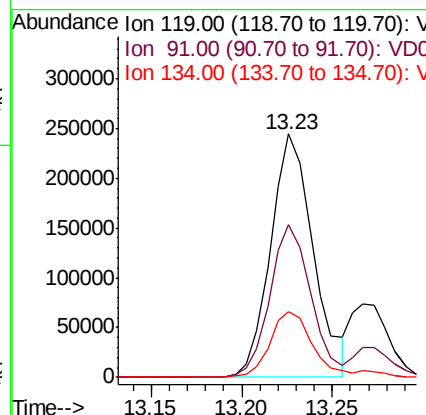
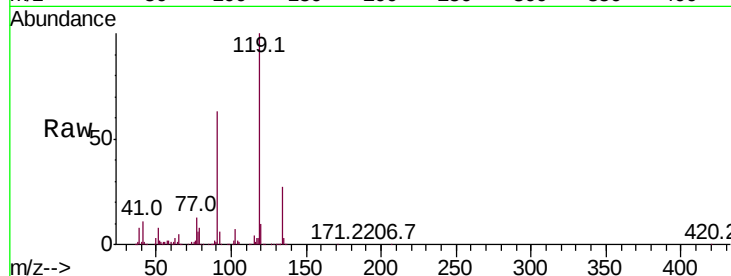




#83
tert-Butylbenzene
Concen: 46.729 ug/l
RT: 13.23 min Scan# 1922
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

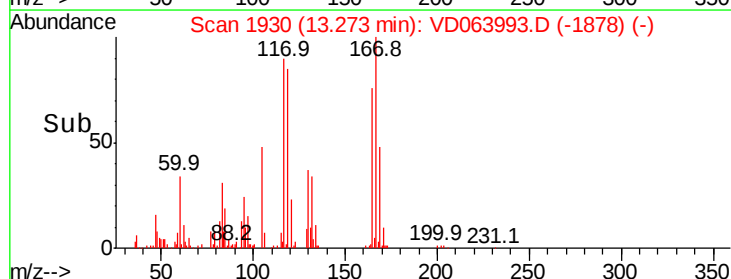
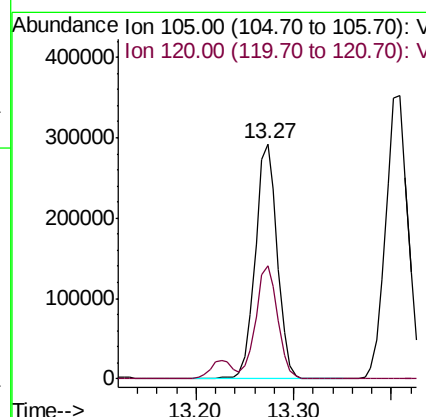
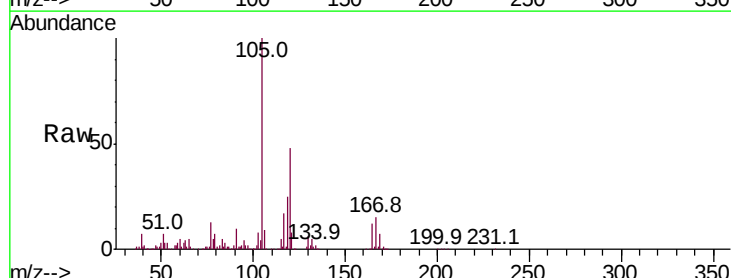
Instrument :
MSVOA_D
ClientSampled :

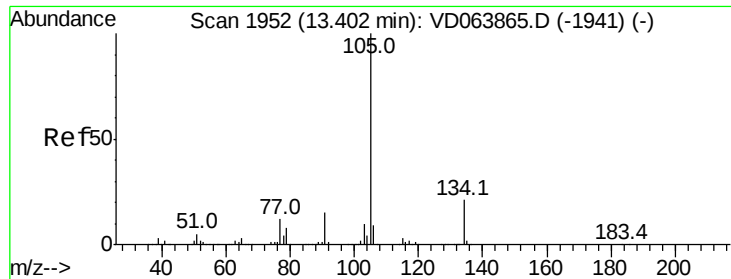
Tot Ion:119 Resp: 401331
Ion Ratio Lower Upper
119 100
91 60.2 30.0 90.0
134 28.2 13.0 38.9



#84
1,2,4-Trimethylbenzene
Concen: 46.529 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion:105 Resp: 462903
Ion Ratio Lower Upper
105 100
120 48.1 23.8 71.5

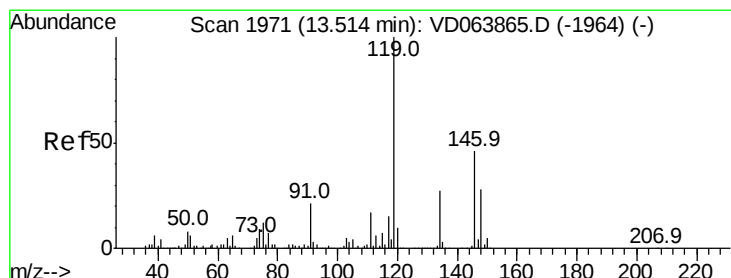
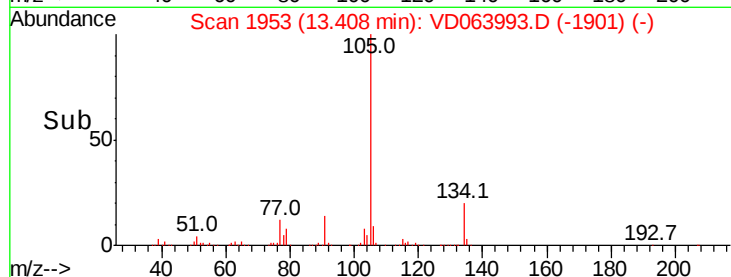
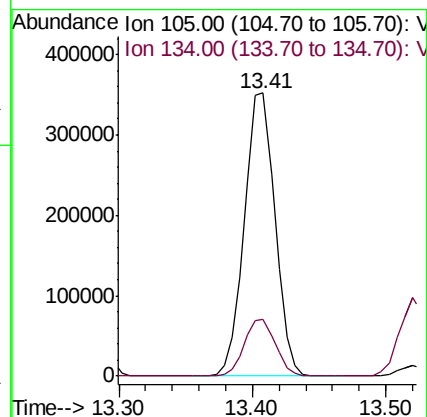
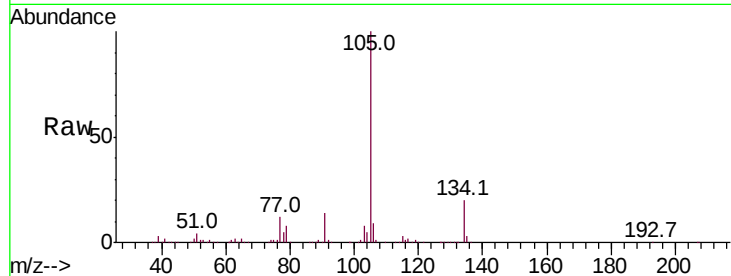




#85
 sec-Butylbenzene
 Concen: 48.166 ug/l
 RT: 13.41 min Scan# 1953
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

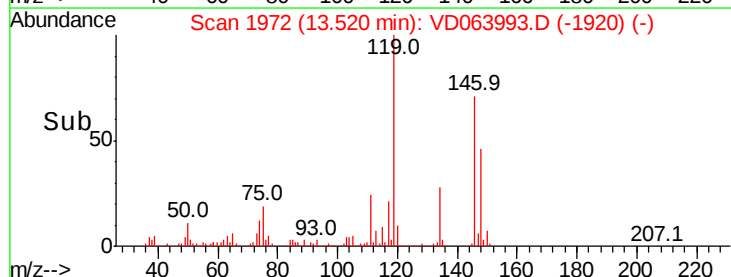
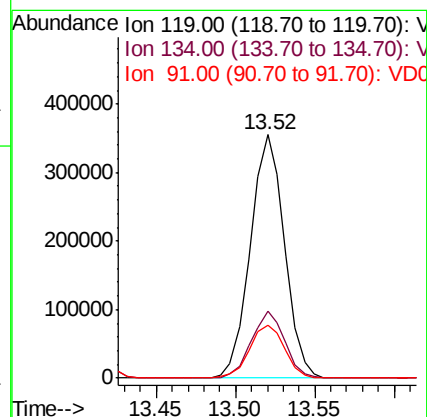
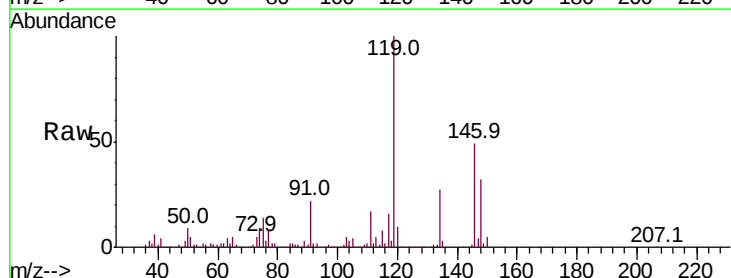
Instrument :
 MSVOA_D
 ClientSampleId :

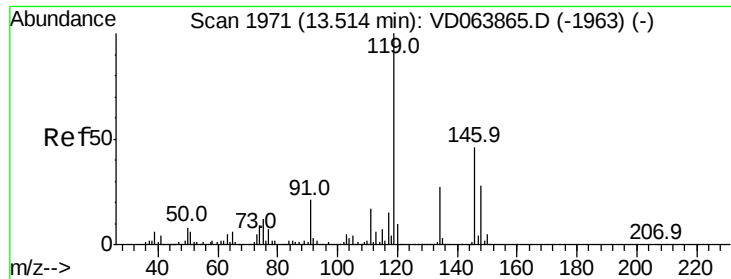
Tot Ion:105 Resp: 558656
 Ion Ratio Lower Upper
 105 100
 134 20.3 10.6 31.8



#86
 p-Isopropyltoluene
 Concen: 48.302 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Tgt Ion:119 Resp: 530128
 Ion Ratio Lower Upper
 119 100
 134 26.8 13.9 41.6
 91 22.2 11.2 33.5

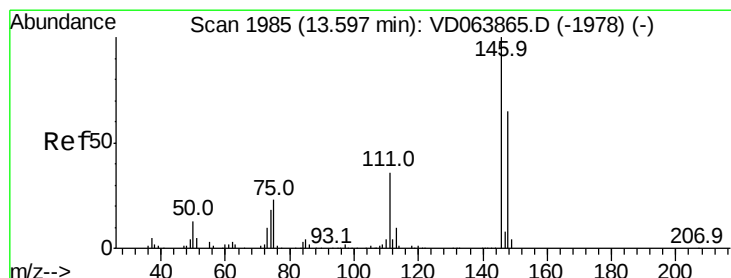
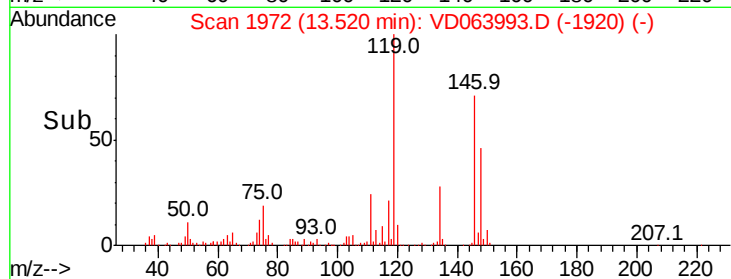
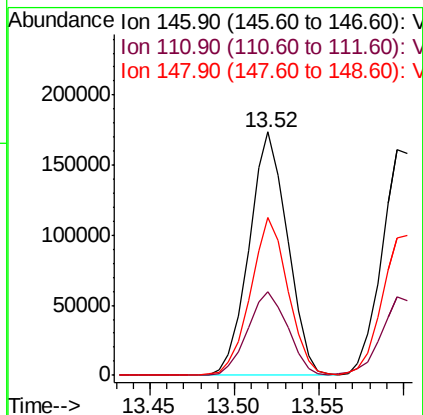
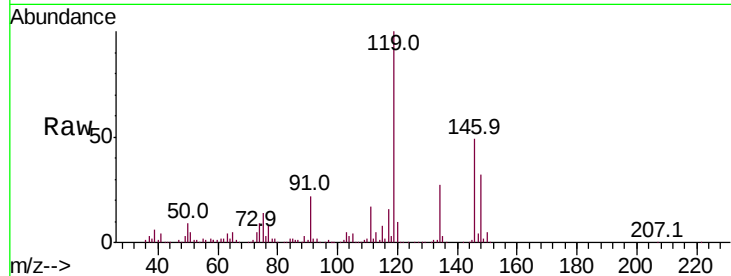




#87
 1,3-Dichlorobenzene
 Concen: 48.105 ug/l
 RT: 13.52 min Scan# 1972
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

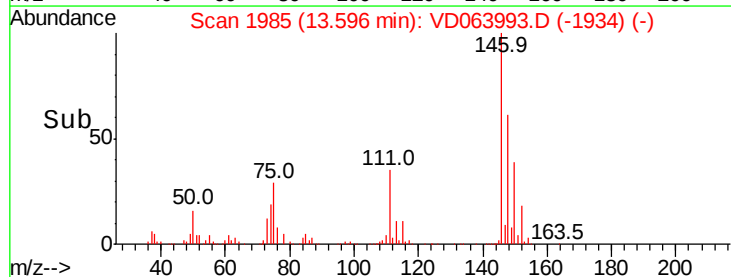
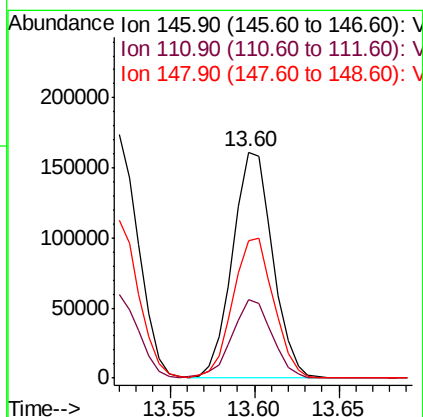
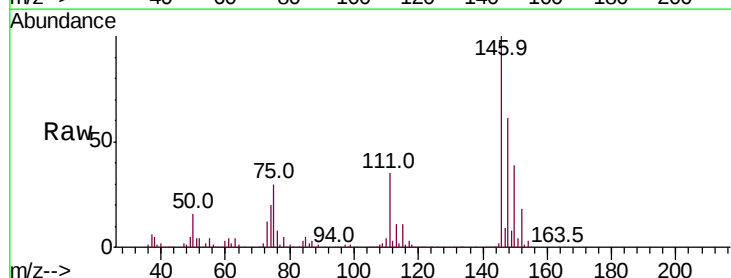
Instrument :
 MSVOA_D
 ClientSampleId :

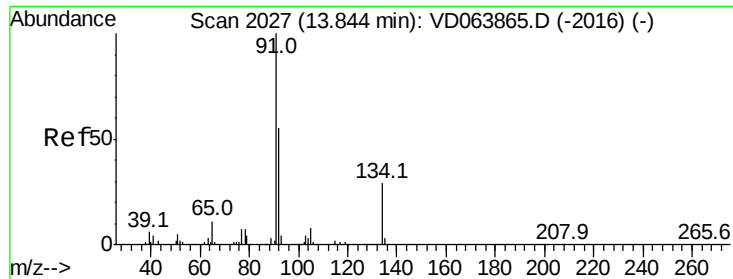
Tot Ion:146 Resp: 273928
 Ion Ratio Lower Upper
 146 100
 111 35.6 18.3 54.9
 148 63.1 31.8 95.4



#88
 1,4-Dichlorobenzene
 Concen: 47.636 ug/l
 RT: 13.60 min Scan# 1985
 Delta R.T. -0.00 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Tgt Ion:146 Resp: 267604
 Ion Ratio Lower Upper
 146 100
 111 34.6 18.6 56.0
 148 63.0 32.6 98.0

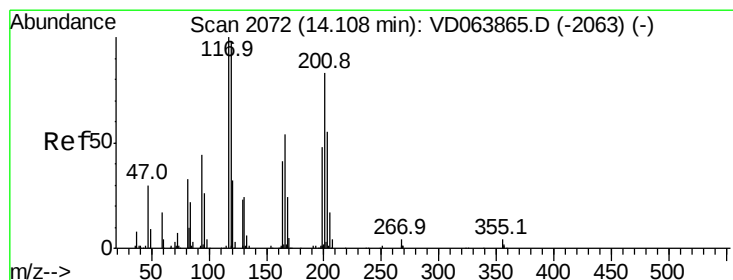
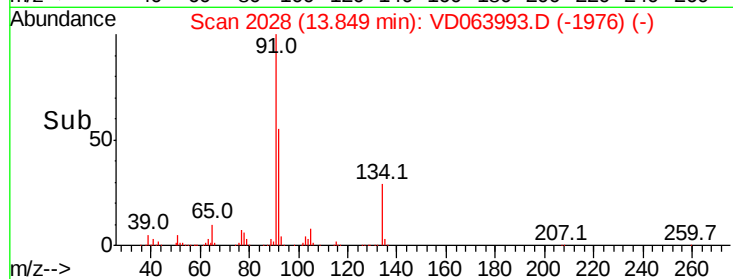
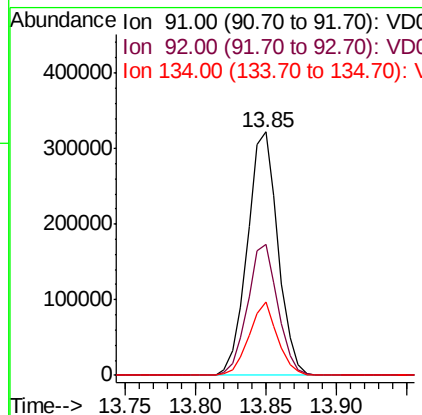
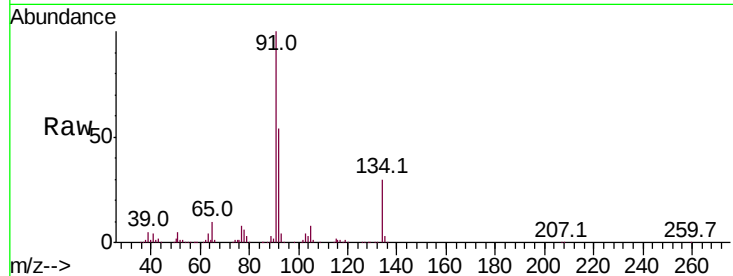




#89
n-Butylbenzene
Concen: 47.805 ug/l
RT: 13.85 min Scan# 2028
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

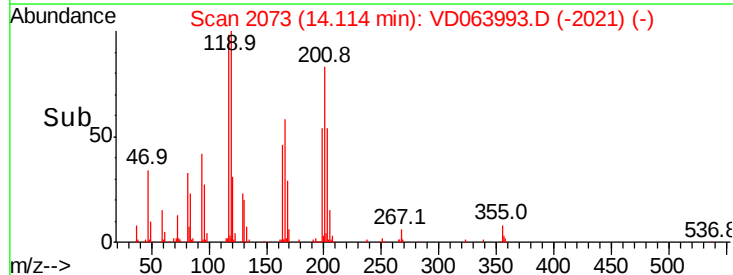
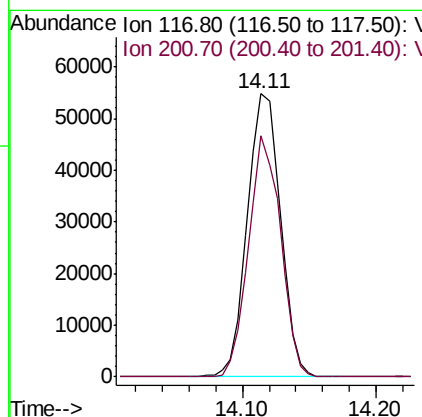
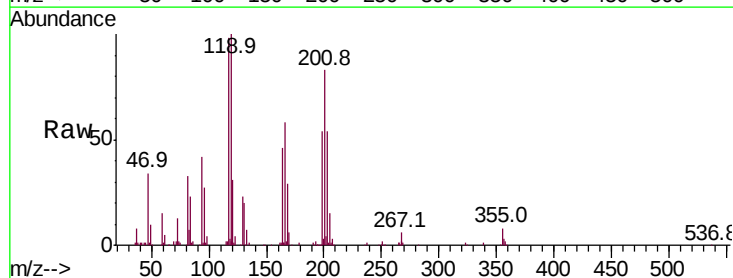
Instrument :
MSVOA_D
ClientSampleId :

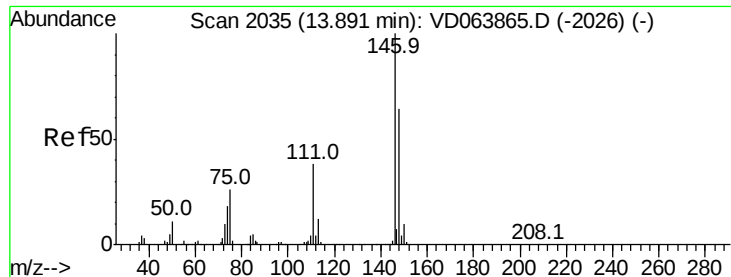
Tot Ion	Ratio	Lower	Upper
91	100		
92	53.3	26.8	80.3
134	28.1	14.4	43.0



#90
Hexachloroethane
Concen: 47.624 ug/l
RT: 14.11 min Scan# 2073
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.2	40.6	121.7

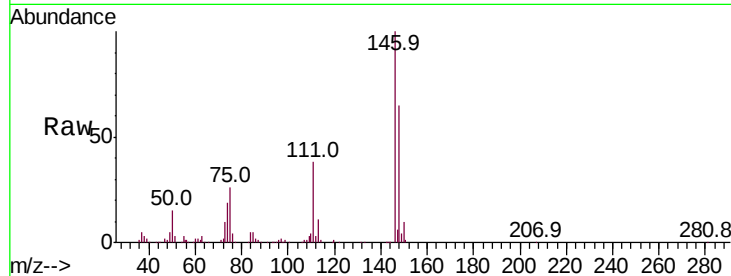




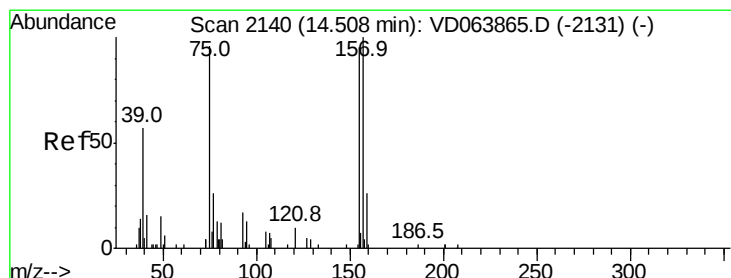
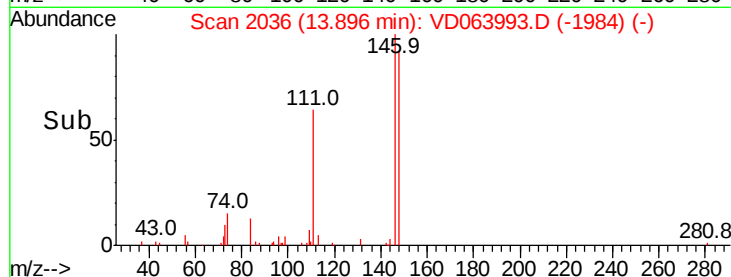
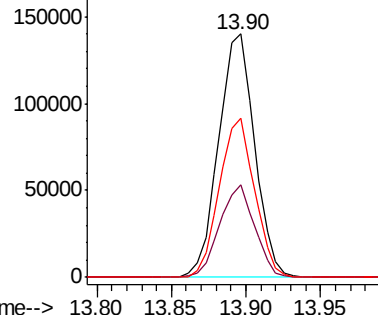
#91
 1,2-Dichlorobenzene
 Concen: 47.704 ug/l
 RT: 13.90 min Scan# 2036
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.8	18.6	55.6
148	63.6	31.6	95.0

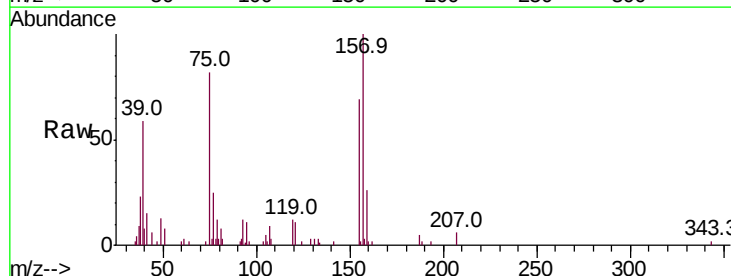


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

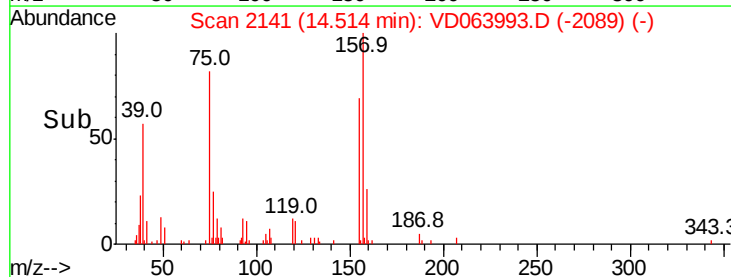
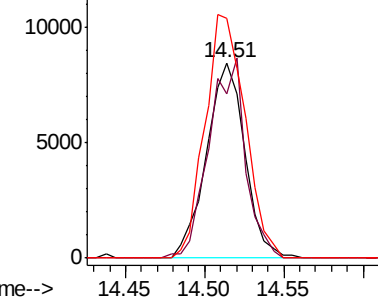


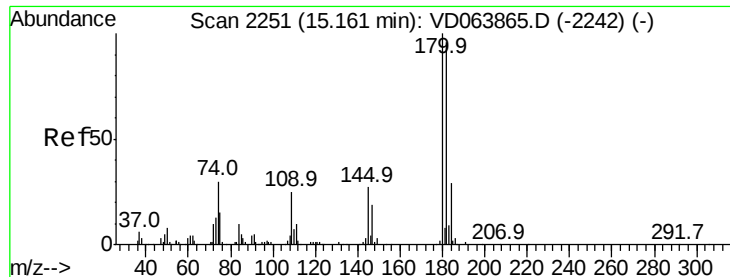
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 45.383 ug/l
 RT: 14.51 min Scan# 2141
 Delta R.T. 0.01 min
 Lab File: VD063993.D
 Acq: 16 Oct 2019 18:07

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.5	43.9	131.6
157	130.0	56.0	167.9



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V





#93

1,2,4-Trichlorobenzene

Concen: 47.022 ug/l

RT: 15.17 min Scan# 2252

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

Instrument :

MSVOA_D

ClientSampled :

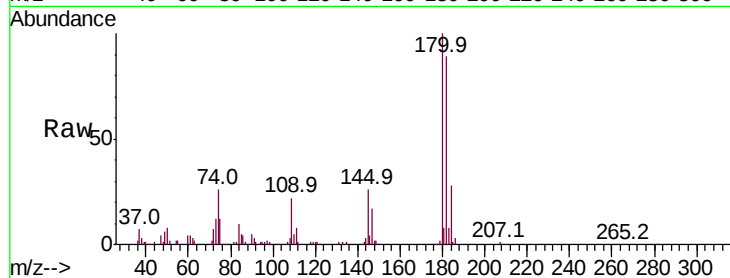
Tot Ion:180 Resp: 178050

Ion Ratio Lower Upper

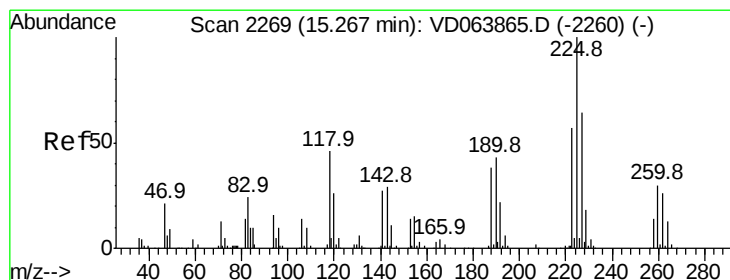
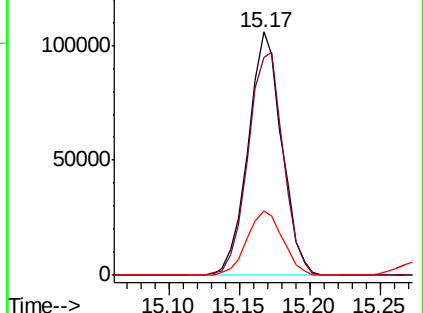
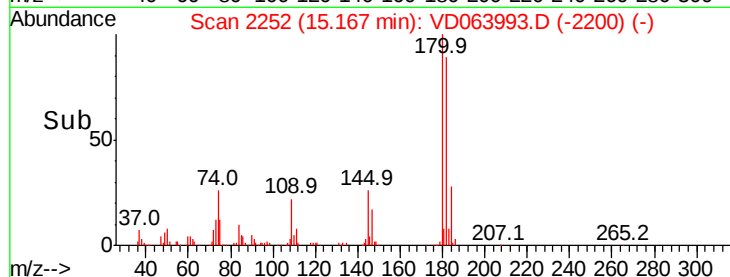
180 100

182 95.2 47.4 142.3

145 28.2 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: 48.364 ug/l

RT: 15.27 min Scan# 2270

Delta R.T. 0.01 min

Lab File: VD063993.D

Acq: 16 Oct 2019 18:07

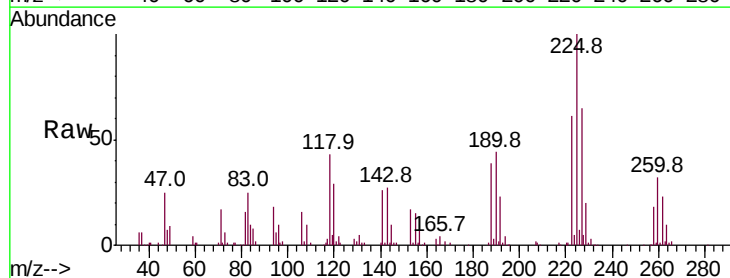
Tgt Ion:225 Resp: 101056

Ion Ratio Lower Upper

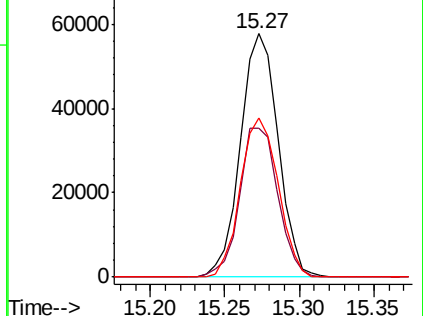
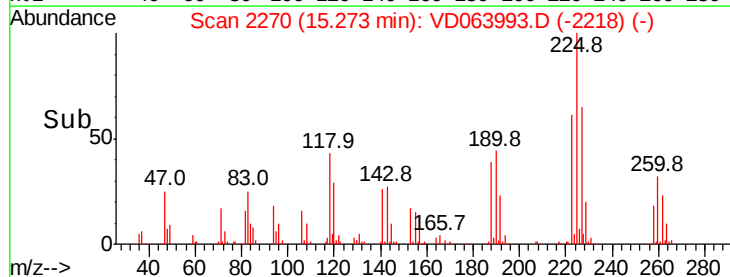
225 100

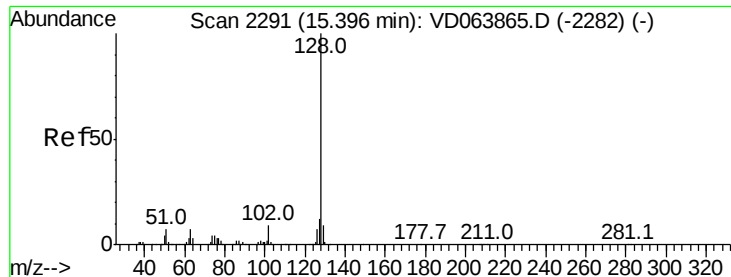
223 62.4 29.5 88.6

227 65.6 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

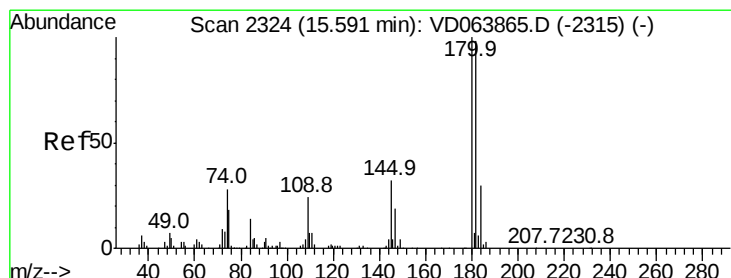
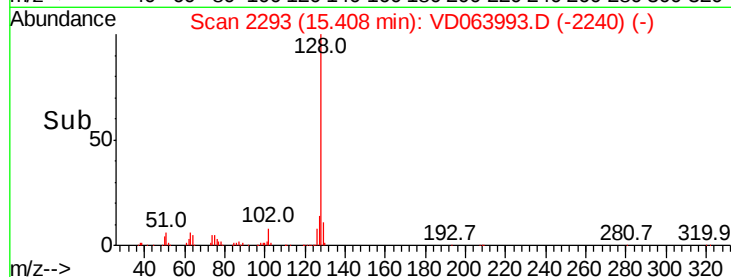
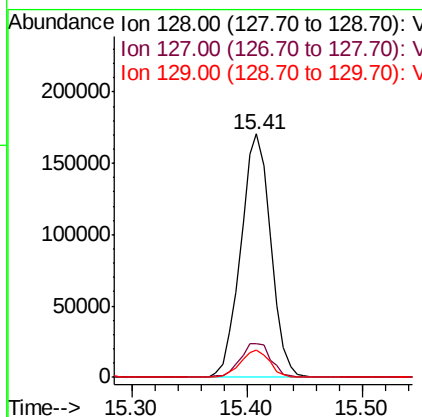
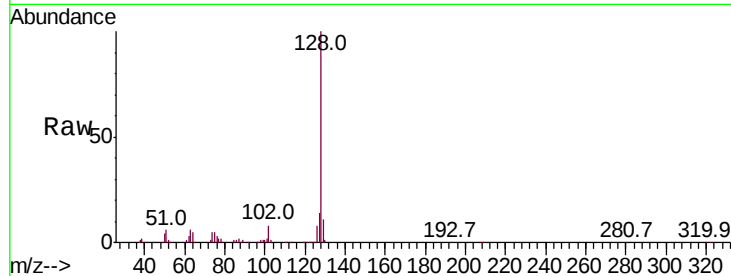




#95
Naphthalene
Concen: 48.300 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:128 Resp: 307390
Ion Ratio Lower Upper
128 100
127 14.5 10.6 16.0
129 10.9 8.6 13.0



#96
1,2,3-Trichlorobenzene
Concen: 47.239 ug/l
RT: 15.60 min Scan# 2326
Delta R.T. 0.01 min
Lab File: VD063993.D
Acq: 16 Oct 2019 18:07

Tgt Ion:180 Resp: 154327
Ion Ratio Lower Upper
180 100
182 94.7 47.0 141.0
145 29.9 15.3 45.9

