

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD123019\
 Data File : VD064673.D
 Acq On : 30 Dec 2019 12:46
 Operator : VA/SY
 Sample : VD1230SBS01
 Misc : 5.00G/5.00ml/MSVOA D/SOIL
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

Quant Time: Dec 31 07:07:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	418325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	600612	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	525405	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	251799	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.33	65	179761	48.73	ug/l	0.00
Spiked Amount			Recovery	=	97.46%	
35) Dibromofluoromethane	7.92	113	184087	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	
50) Toluene-d8	10.34	98	720046	51.02	ug/l	0.00
Spiked Amount			Recovery	=	102.04%	
62) 4-Bromofluorobenzene	12.64	95	222901	49.95	ug/l	0.00
Spiked Amount			Recovery	=	99.90%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.99	85	68861	21.181	ug/l	93
3) Chloromethane	2.21	50	97609	21.468	ug/l	98
4) Vinyl Chloride	2.35	62	118012	21.288	ug/l	99
5) Bromomethane	2.76	94	81976	20.337	ug/l	93
6) Chloroethane	2.92	64	78346	21.091	ug/l	98
7) Trichlorofluoromethane	3.27	101	200591	21.490	ug/l	97
8) Diethyl Ether	3.71	74	37622	20.297	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.09	101	84471	21.851	ug/l	98
10) Methyl Iodide	4.30	142	79569	19.162	ug/l	99
11) Tert butyl alcohol	5.26	59	19884	94.057	ug/l	99
12) 1,1-Dichloroethene	4.06	96	78831	21.419	ug/l	96
13) Acrolein	3.92	56	26245	89.080	ug/l	99
14) Allyl chloride	4.71	41	122515	21.351	ug/l	99
15) Acrylonitrile	5.43	53	77674	100.603	ug/l	99
16) Acetone	4.17	43	81255	99.997	ug/l	93
17) Carbon Disulfide	4.40	76	251108	21.101	ug/l	97
18) Methyl Acetate	4.72	43	40649	19.574	ug/l	99
19) Methyl tert-butyl Ether	5.48	73	162650	19.897	ug/l	98
20) Methylene Chloride	4.96	84	88186	20.491	ug/l	98
21) trans-1,2-Dichloroethene	5.47	96	88047	21.007	ug/l	95
22) Diisopropyl ether	6.37	45	238413	20.831	ug/l	99
23) Vinyl Acetate	6.31	43	655523	100.967	ug/l	100
24) 1,1-Dichloroethane	6.27	63	145395	21.161	ug/l	98
25) 2-Butanone	7.22	43	103283	101.862	ug/l	95
26) 2,2-Dichloropropane	7.21	77	135871	21.269	ug/l	99
27) cis-1,2-Dichloroethene	7.21	96	94802	20.958	ug/l	98
28) Bromochloromethane	7.55	49	48703	18.234	ug/l	99
29) Tetrahydrofuran	7.57	42	62320	98.835	ug/l	99
30) Chloroform	7.71	83	151685	21.042	ug/l	100
31) Cyclohexane	7.99	56	144236	20.971	ug/l #	91
32) 1,1,1-Trichloroethane	7.90	97	145099	21.430	ug/l	99
36) 1,1-Dichloropropene	8.11	75	123916	21.436	ug/l	98
37) Ethyl Acetate	7.30	43	44582	19.631	ug/l #	95
38) Carbon Tetrachloride	8.09	117	134438	21.810	ug/l	94

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.36	83	152980	21.849	ug/l	97
40) Benzene	8.35	78	336160	21.301	ug/l	96
41) Methacrylonitrile	7.53	41	22049	16.734	ug/l #	59
42) 1,2-Dichloroethane	8.43	62	93389	20.478	ug/l	98
43) Isopropyl Acetate	8.46	43	87909	19.448	ug/l	98
44) Trichloroethene	9.11	130	99214	21.401	ug/l	98
45) 1,2-Dichloropropane	9.39	63	80408	21.340	ug/l	93
46) Dibromomethane	9.48	93	42705	20.328	ug/l	99
47) Bromodichloromethane	9.66	83	114504	20.483	ug/l	97
48) Methyl methacrylate	9.46	41	40230	18.902	ug/l	90
49) 1,4-Dioxane	9.46	88	9946	410.597	ug/l	99
51) 4-Methyl-2-Pentanone	10.23	43	218333	97.720	ug/l	99
52) Toluene	10.40	92	216653	20.925	ug/l	99
53) t-1,3-Dichloropropene	10.62	75	107339	20.596	ug/l	98
54) cis-1,3-Dichloropropene	10.09	75	128452	20.902	ug/l #	94
55) 1,1,2-Trichloroethane	10.80	97	58717	20.740	ug/l	97
56) Ethyl methacrylate	10.66	69	66394	18.778	ug/l	97
57) 1,3-Dichloropropane	10.95	76	100018	20.518	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.94	63	139391	103.476	ug/l	99
59) 2-Hexanone	10.98	43	148807	98.128	ug/l	98
60) Dibromochloromethane	11.14	129	79844	20.394	ug/l	100
61) 1,2-Dibromoethane	11.25	107	55668	19.936	ug/l	98
64) Tetrachloroethene	10.87	164	85719	21.266	ug/l	98
65) Chlorobenzene	11.67	112	227350	20.849	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.74	131	84271	20.499	ug/l	99
67) Ethyl Benzene	11.75	91	412086	20.820	ug/l	100
68) m/p-Xylenes	11.86	106	318835	41.735	ug/l	100
69) o-Xylene	12.18	106	143141	20.744	ug/l	98
70) Styrene	12.20	104	246490	20.351	ug/l	98
71) Bromoform	12.37	173	45555	19.432	ug/l #	99
73) Isopropylbenzene	12.48	105	397060	22.066	ug/l	100
74) N-amyl acetate	12.29	43	78232	20.339	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.74	83	61188	21.646	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	80816	40.645	ug/l #	100
77) Bromobenzene	12.76	156	95168	21.524	ug/l	98
78) n-propylbenzene	12.83	91	466956	22.244	ug/l	99
79) 2-Chlorotoluene	12.91	91	254746	22.090	ug/l	99
80) 1,3,5-Trimethylbenzene	12.97	105	325450	22.018	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	19425	20.432	ug/l	92
82) 4-Chlorotoluene	13.01	91	268778	21.901	ug/l	99
83) tert-Butylbenzene	13.23	119	280123	21.827	ug/l	99
84) 1,2,4-Trimethylbenzene	13.27	105	320086	21.743	ug/l	99
85) sec-Butylbenzene	13.41	105	388730	22.094	ug/l	99
86) p-Isopropyltoluene	13.53	119	365955	21.752	ug/l	99
87) 1,3-Dichlorobenzene	13.53	146	178302	21.154	ug/l	99
88) 1,4-Dichlorobenzene	13.60	146	176743	21.345	ug/l	99
89) n-Butylbenzene	13.86	91	336461	22.208	ug/l	99
90) Hexachloroethane	14.12	117	68897	21.439	ug/l	100
91) 1,2-Dichlorobenzene	13.90	146	151233	21.042	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.51	75	9793	21.371	ug/l	91

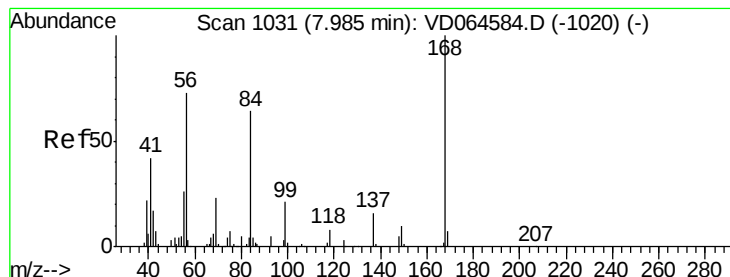
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD123019\
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.18	180	108033	20.414	ug/l	99
94) Hexachlorobutadiene	15.28	225	69572	20.892	ug/l	98
95) Naphthalene	15.41	128	161972	19.347	ug/l	99
96) 1,2,3-Trichlorobenzene	15.61	180	92487	20.472	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

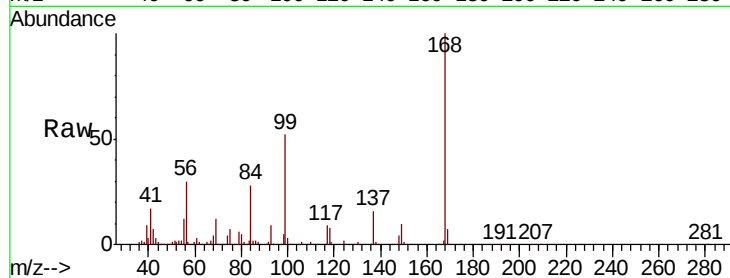
VD1230SBS01

Tot Ion:168 Resp: 418325

Ion Ratio Lower Upper

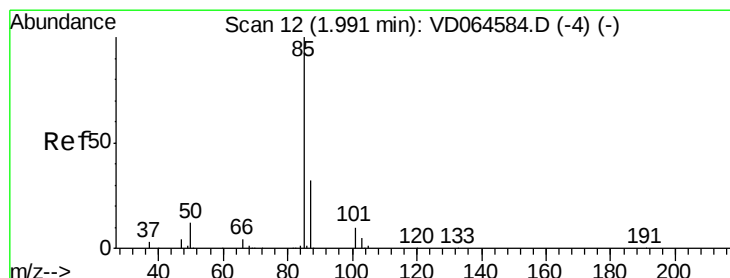
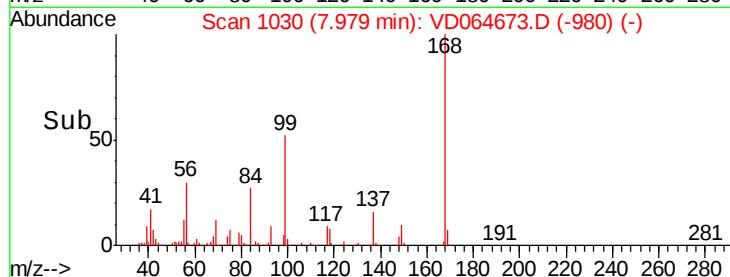
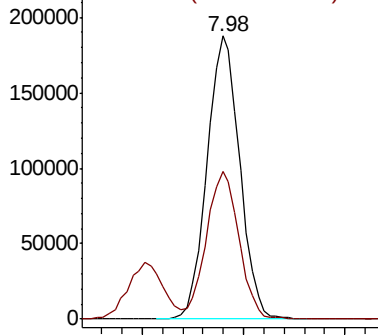
168 100

99 51.8 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: 21.181 ug/l

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD064673.D

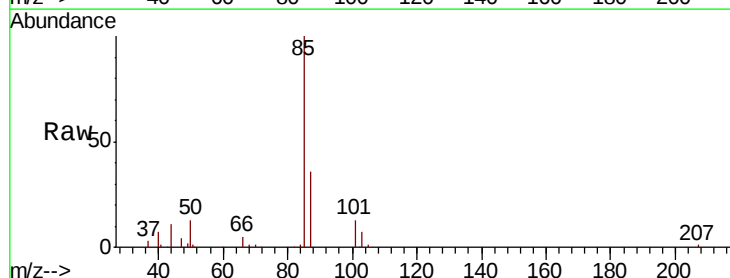
Acq: 30 Dec 2019 12:46

Tgt Ion: 85 Resp: 68861

Ion Ratio Lower Upper

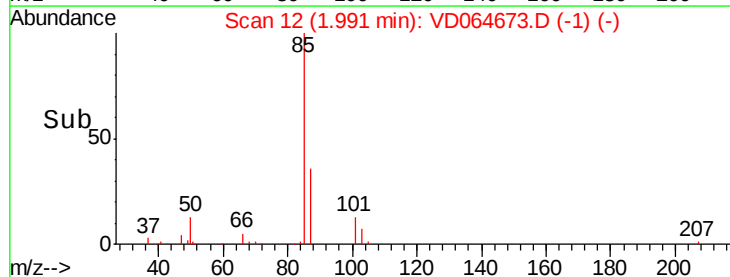
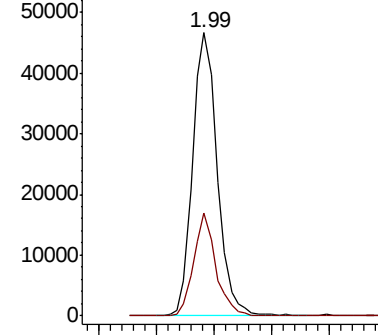
85 100

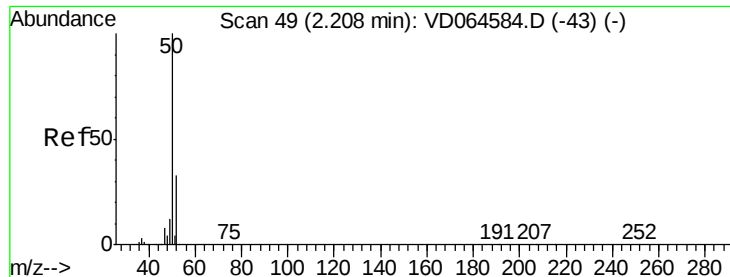
87 36.3 16.1 48.2



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#3

Chloromethane

Concen: 21.468 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

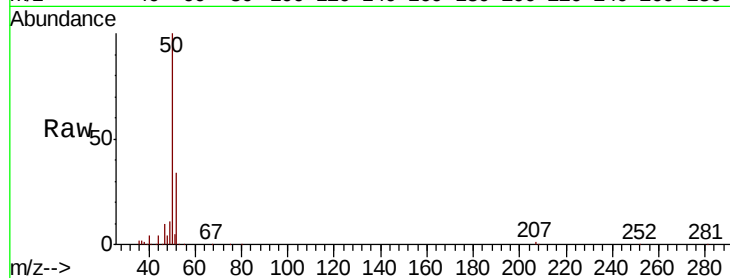
VD1230SBS01

Tot Ion: 50 Resp: 97609

Ion Ratio Lower Upper

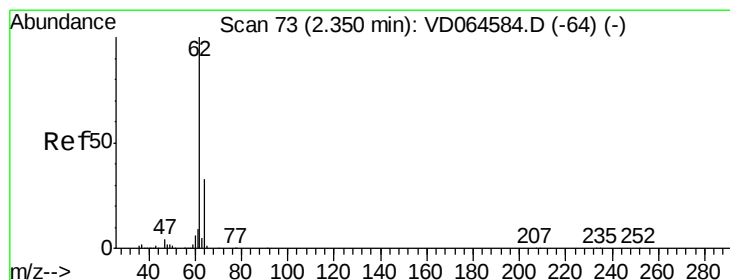
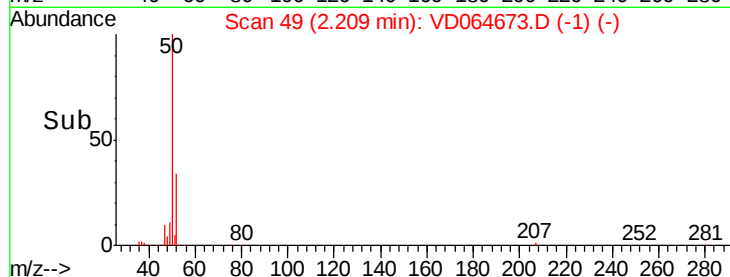
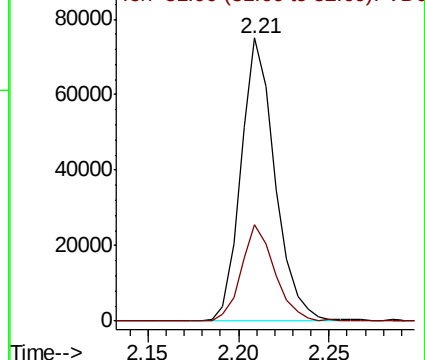
50 100

52 34.1 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#4

Vinyl Chloride

Concen: 21.288 ug/l

RT: 2.35 min Scan# 73

Delta R.T. 0.00 min

Lab File: VD064673.D

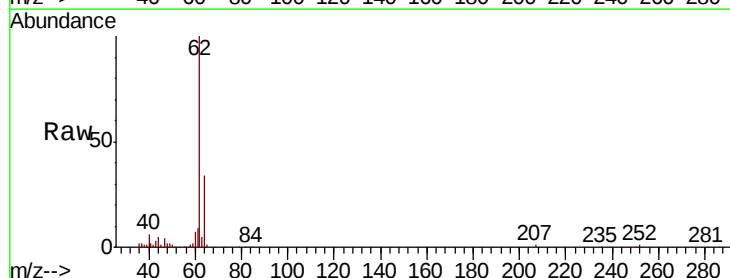
Acq: 30 Dec 2019 12:46

Tgt Ion: 62 Resp: 118012

Ion Ratio Lower Upper

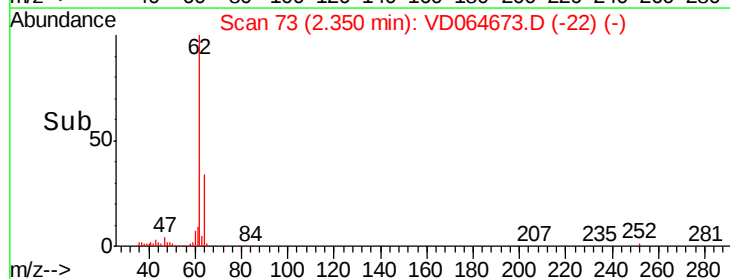
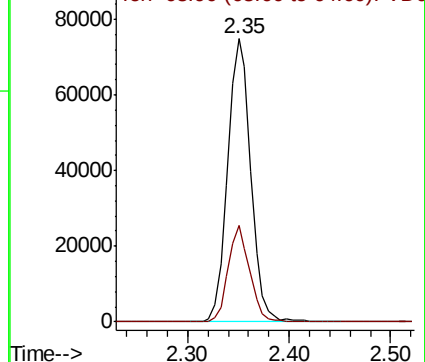
62 100

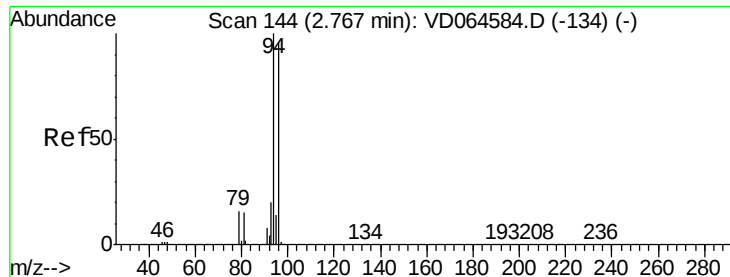
64 34.1 26.6 40.0



Abundance Ion 61.90 (61.60 to 62.60): VDC

Ion 63.90 (63.60 to 64.60): VDC





#5

Bromomethane

Concen: 20.337 ug/l

RT: 2.76 min Scan# 143

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

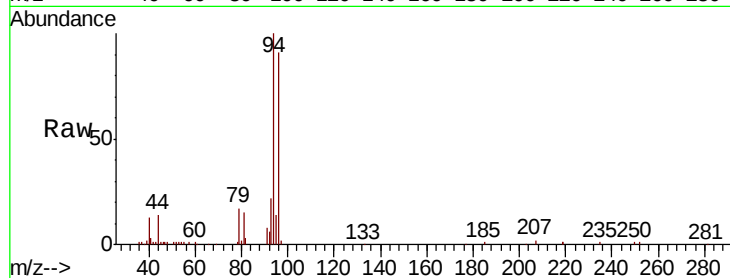
VD1230SBS01

Tot Ion: 94 Resp: 81976

Ion Ratio Lower Upper

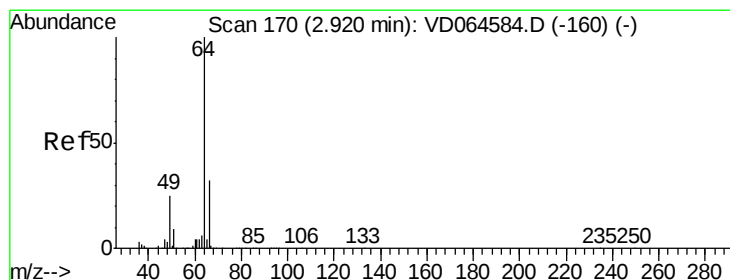
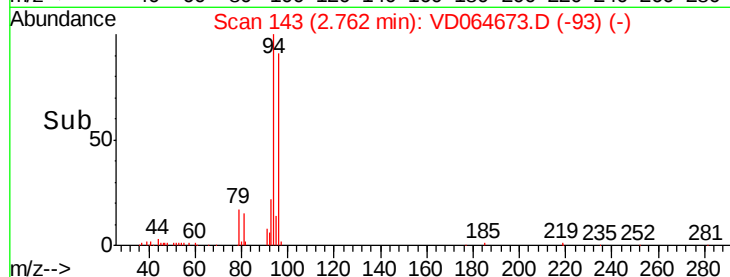
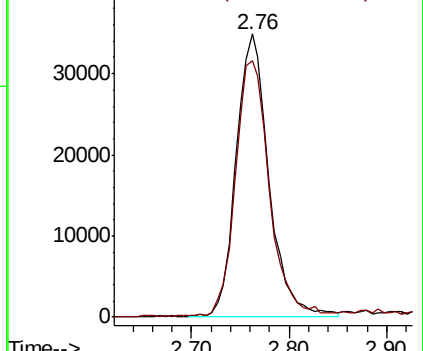
94 100

96 89.7 77.2 115.8



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#6

Chloroethane

Concen: 21.091 ug/l

RT: 2.92 min Scan# 170

Delta R.T. 0.00 min

Lab File: VD064673.D

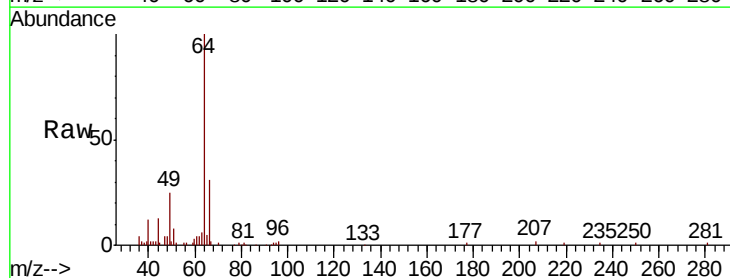
Acq: 30 Dec 2019 12:46

Tgt Ion: 64 Resp: 78346

Ion Ratio Lower Upper

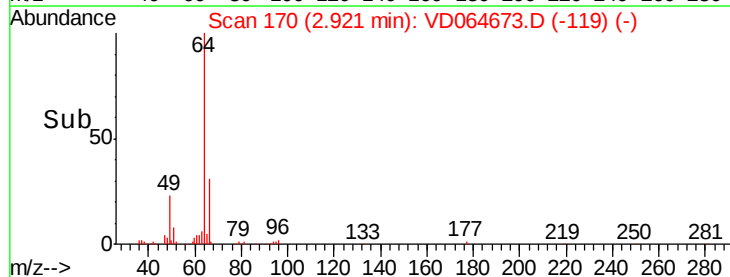
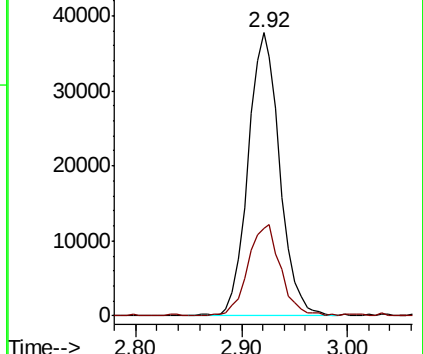
64 100

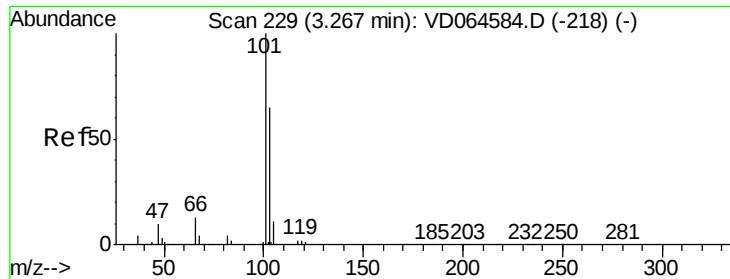
66 31.0 25.9 38.9



Abundance Ion 63.90 (63.60 to 64.60): VDC

Ion 65.90 (65.60 to 66.60): VDC



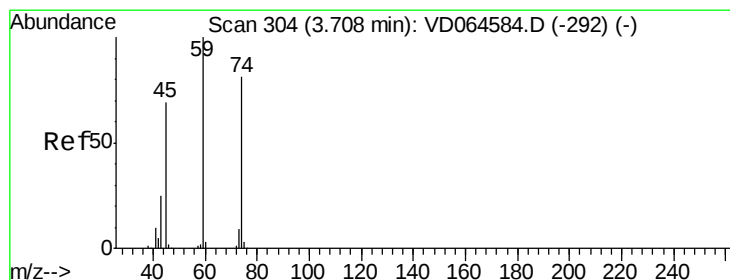
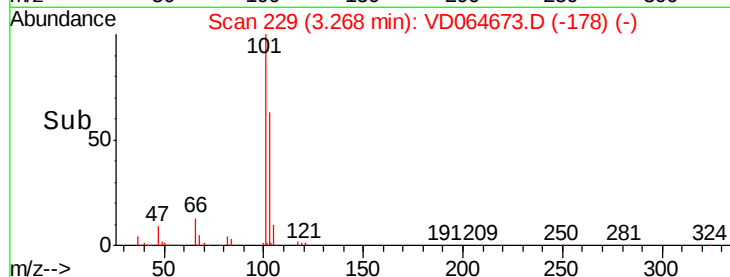
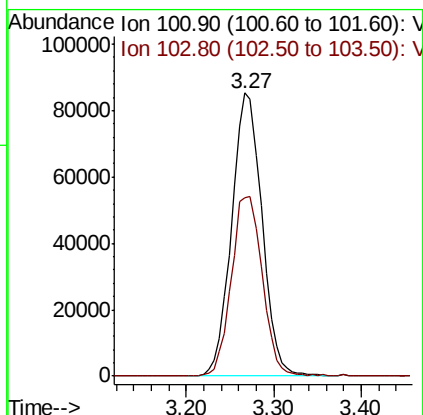
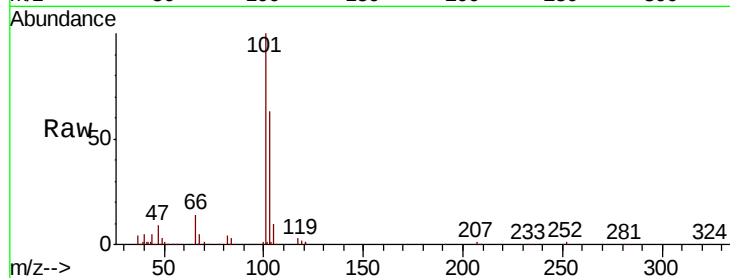


#7

Trichlorofluoromethane
 Concen: 21.490 ug/l
 RT: 3.27 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

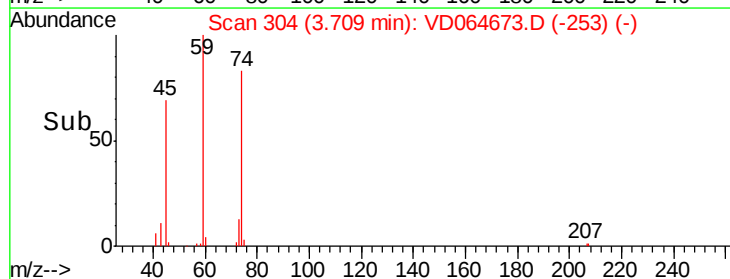
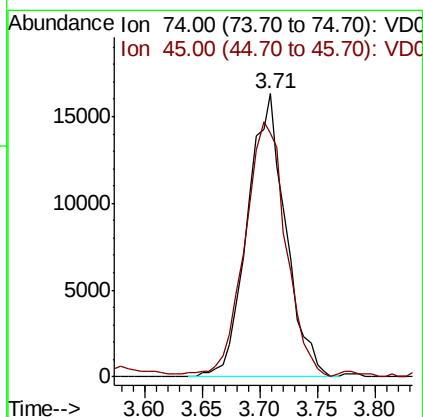
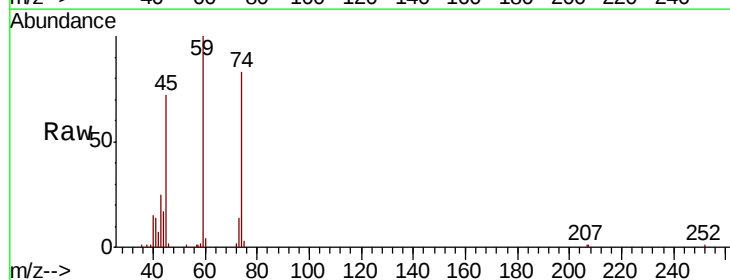
Tot Ion:101 Resp: 200591
 Ion Ratio Lower Upper
 101 100
 103 63.1 52.2 78.4



#8

Diethyl Ether
 Concen: 20.297 ug/l
 RT: 3.71 min Scan# 304
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Tgt Ion: 74 Resp: 37622
 Ion Ratio Lower Upper
 74 100
 45 97.8 47.5 142.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.851 ug/l

RT: 4.09 min Scan# 368

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

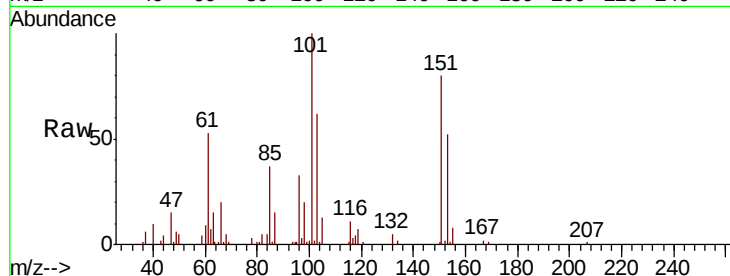
Tot Ion:101 Resp: 84471

Ion Ratio Lower Upper

101 100

85 45.6 35.2 52.8

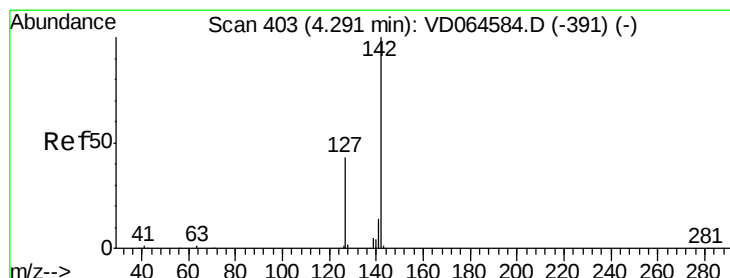
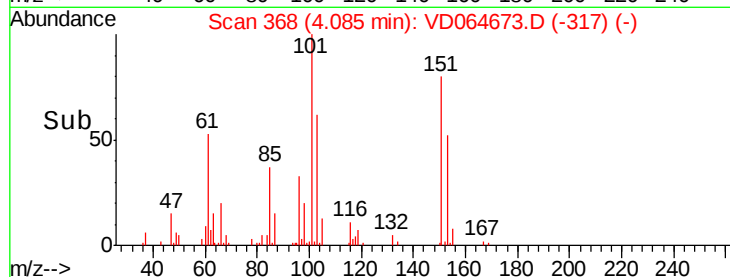
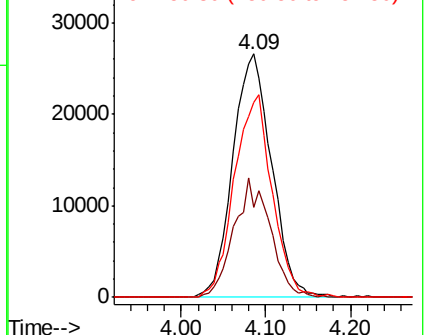
151 81.3 66.2 99.4



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: 19.162 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

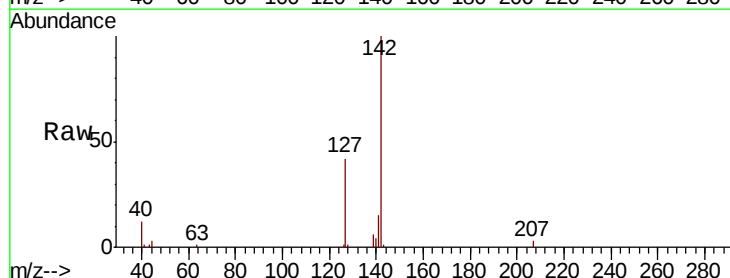
Tgt Ion:142 Resp: 79569

Ion Ratio Lower Upper

142 100

127 45.5 36.2 54.4

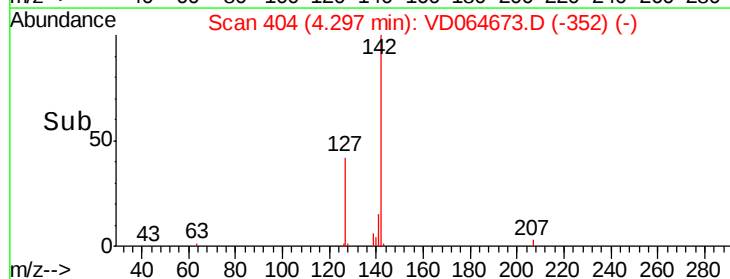
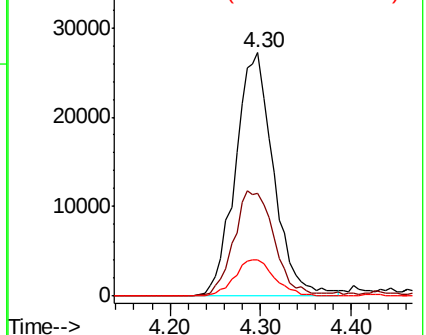
141 15.6 11.8 17.8



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



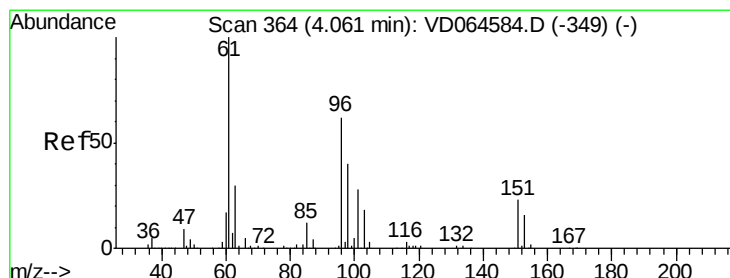
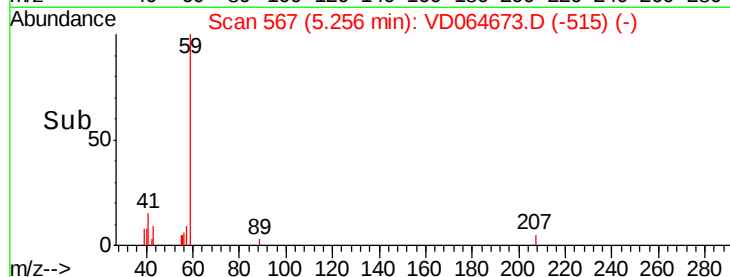
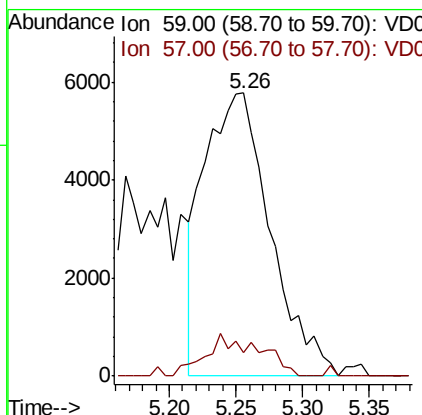
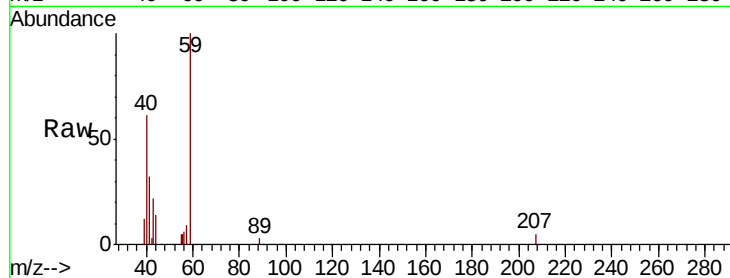


#11

Tert butyl alcohol
 Concen: 94.057 ug/l
 RT: 5.26 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

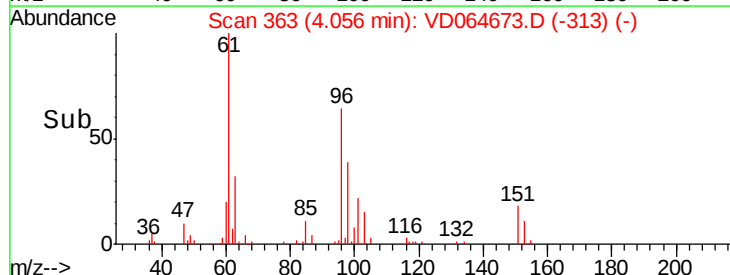
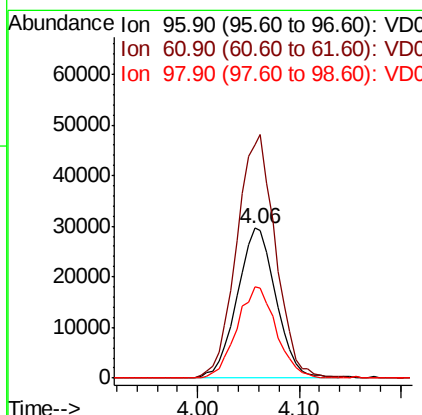
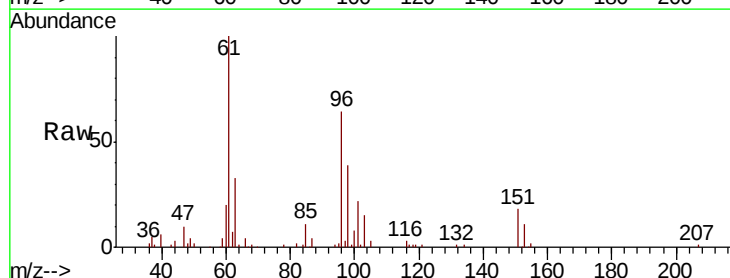
Tot Ion: 59 Resp: 19884
 Ion Ratio Lower Upper
 59 100
 57 12.1 9.3 13.9

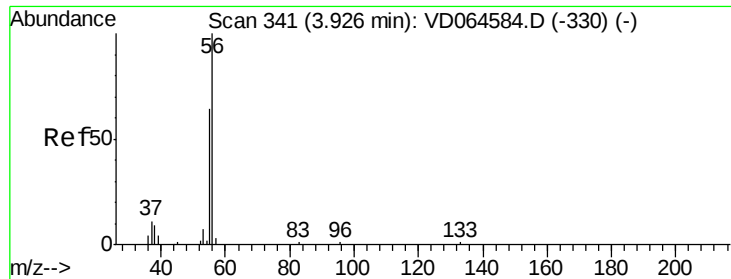


#12

1,1-Dichloroethene
 Concen: 21.419 ug/l
 RT: 4.06 min Scan# 363
 Delta R.T. -0.01 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Tgt Ion: 96 Resp: 78831
 Ion Ratio Lower Upper
 96 100
 61 155.9 129.4 194.0
 98 61.2 51.4 77.0





#13

Acrolein

Concen: 89.080 ug/l

RT: 3.92 min Scan# 340

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

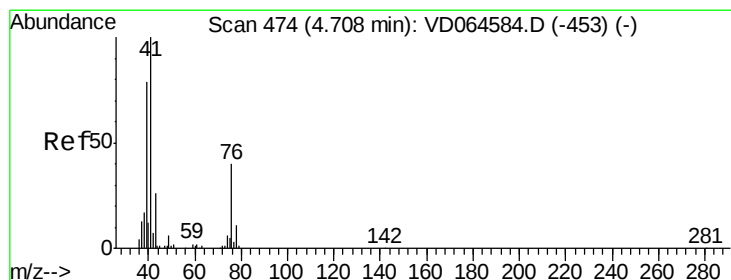
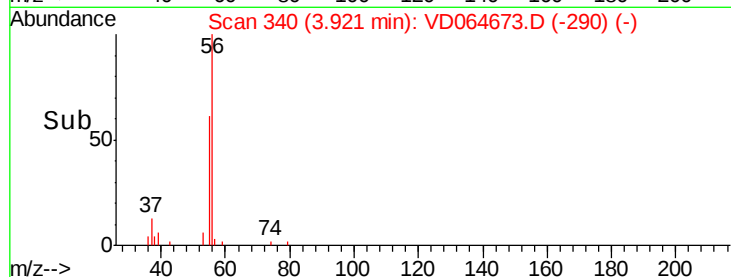
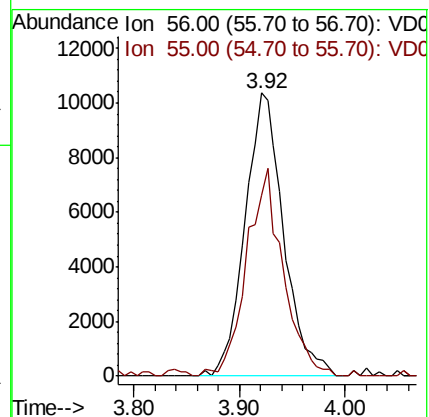
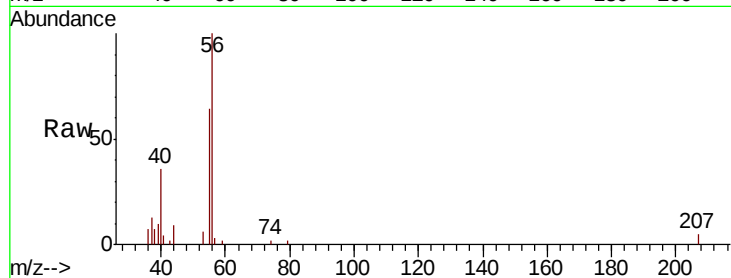
VD1230SBS01

Tot Ion: 56 Resp: 26245

Ion Ratio Lower Upper

56 100

55 69.7 56.7 85.1



#14

Allyl chloride

Concen: 21.351 ug/l

RT: 4.71 min Scan# 474

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

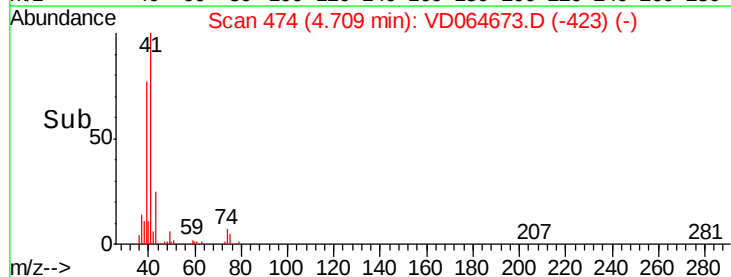
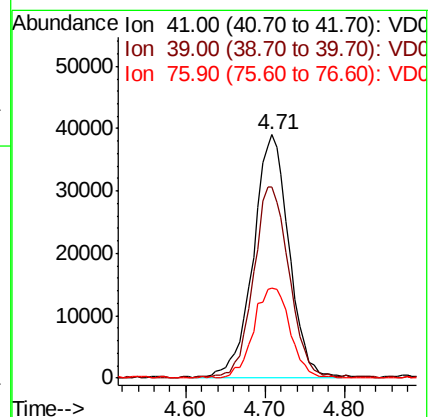
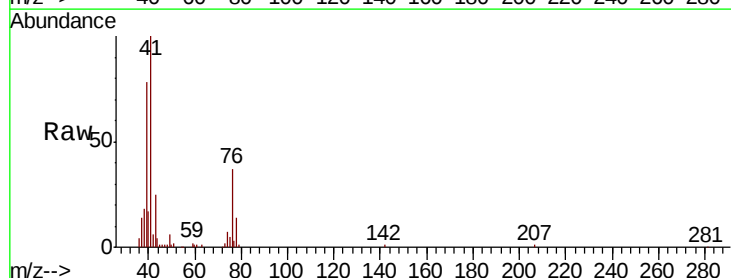
Tgt Ion: 41 Resp: 122515

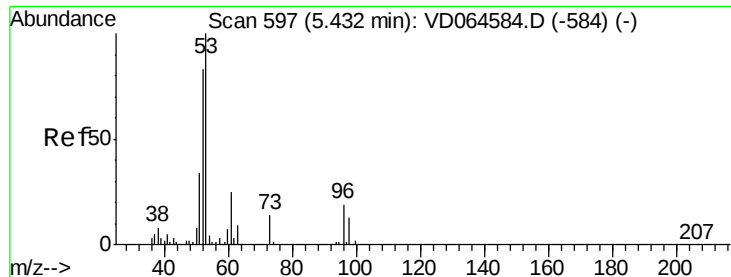
Ion Ratio Lower Upper

41 100

39 78.9 62.3 93.5

76 38.0 29.7 44.5





#15

Acrylonitrile

Concen: 100.603 ug/l

RT: 5.43 min Scan# 596

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

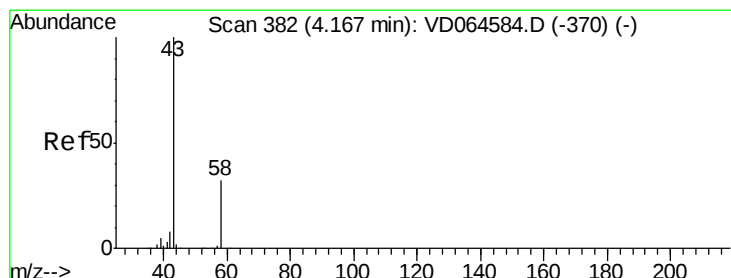
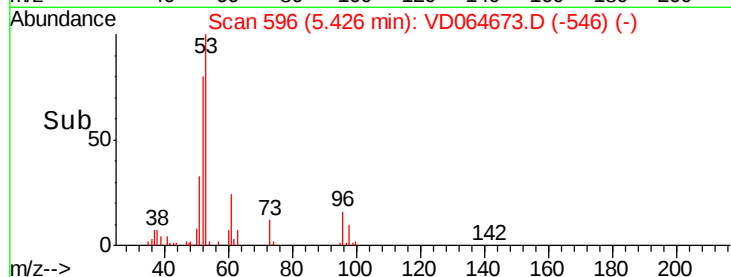
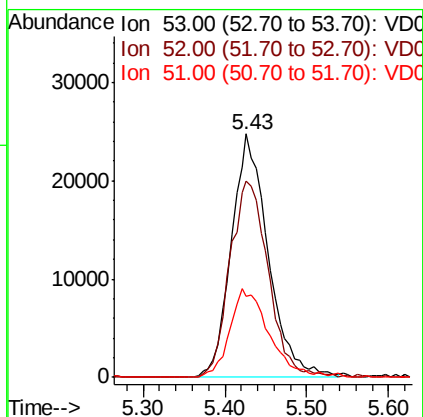
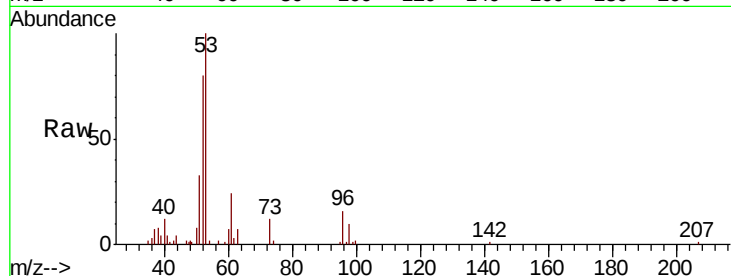
Tot Ion: 53 Resp: 77674

Ion Ratio Lower Upper

53 100

52 84.0 66.2 99.2

51 38.0 30.1 45.1



#16

Acetone

Concen: 99.997 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064673.D

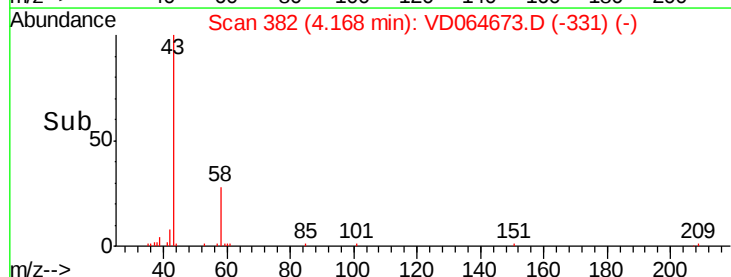
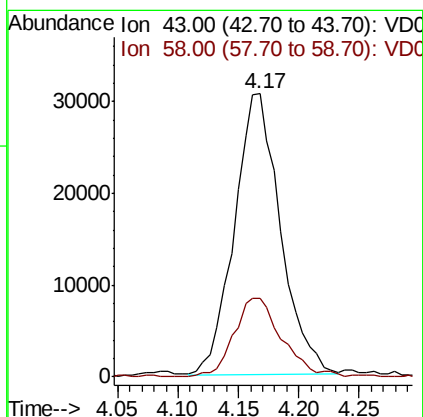
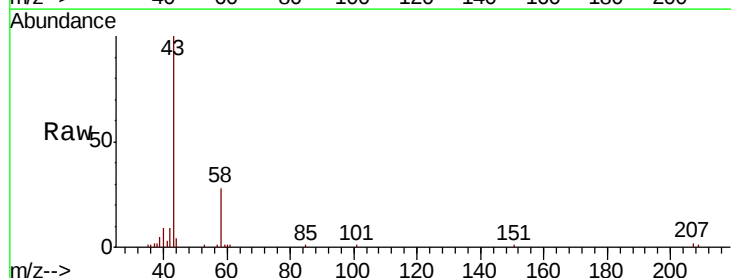
Acq: 30 Dec 2019 12:46

Tgt Ion: 43 Resp: 81255

Ion Ratio Lower Upper

43 100

58 28.2 25.8 38.6

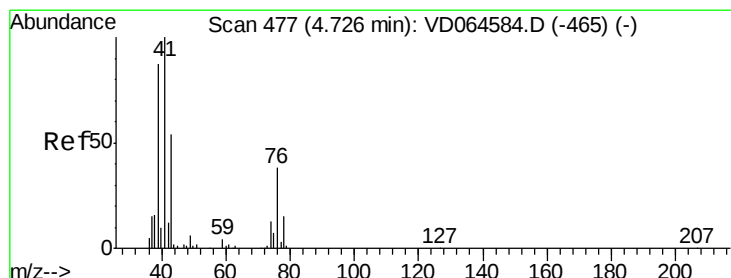
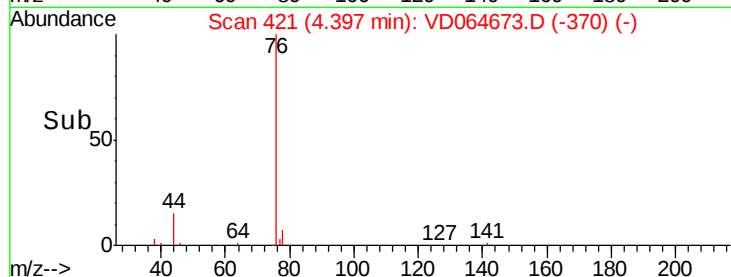
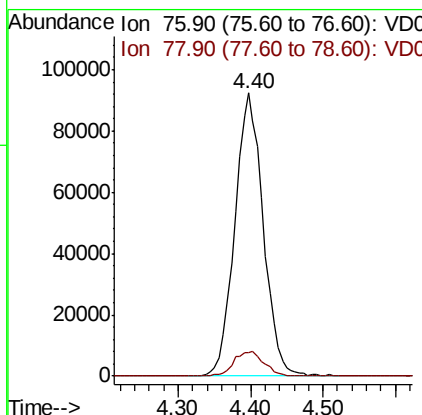
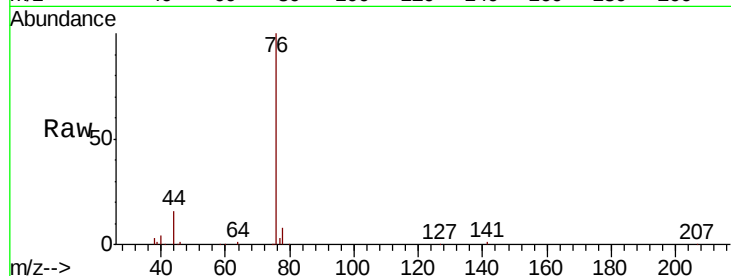




#17
Carbon Disulfide
Concen: 21.101 ug/l
RT: 4.40 min Scan# 421
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

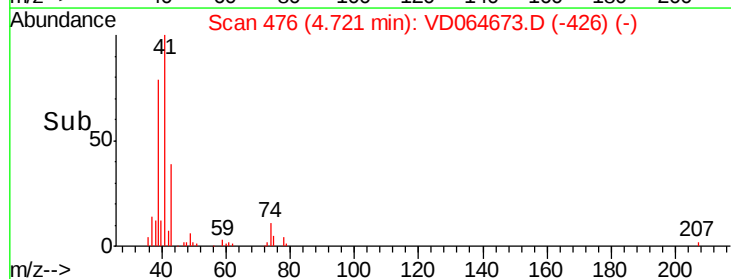
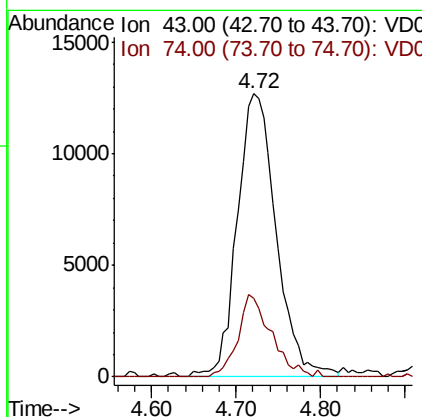
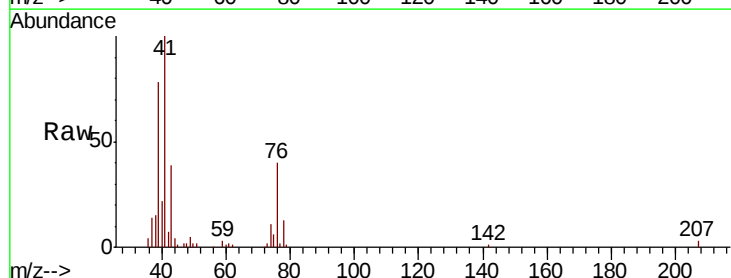
Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

Tot Ion: 76 Resp: 251108
Ion Ratio Lower Upper
76 100
78 8.2 7.3 10.9



#18
Methyl Acetate
Concen: 19.574 ug/l
RT: 4.72 min Scan# 476
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion: 43 Resp: 40649
Ion Ratio Lower Upper
43 100
74 24.6 19.2 28.8



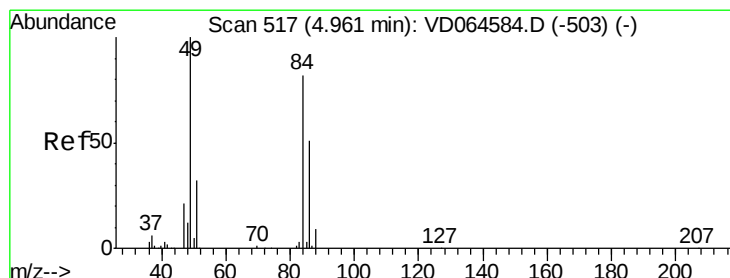
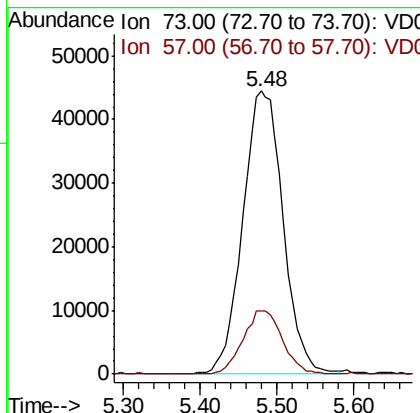
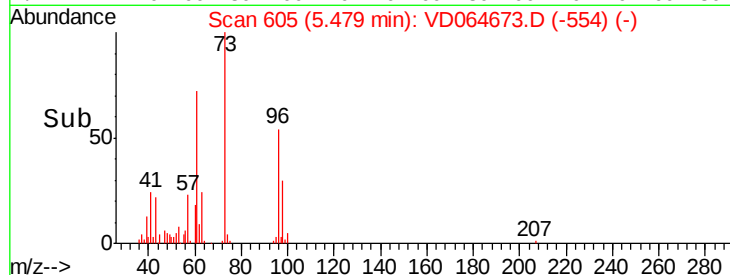
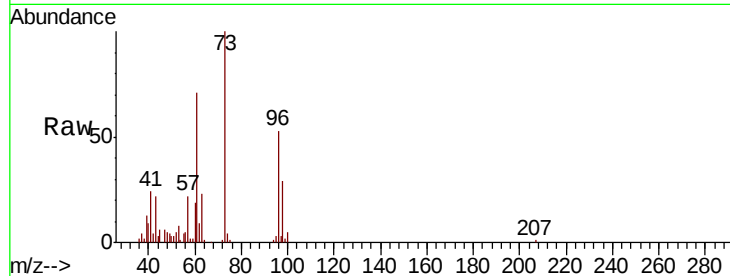


#19

Methyl tert-butyl Ether
 Concen: 19.897 ug/l
 RT: 5.48 min Scan# 605
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

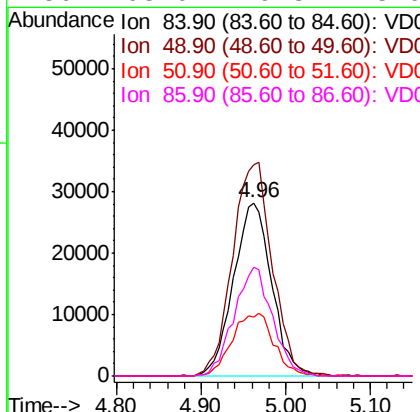
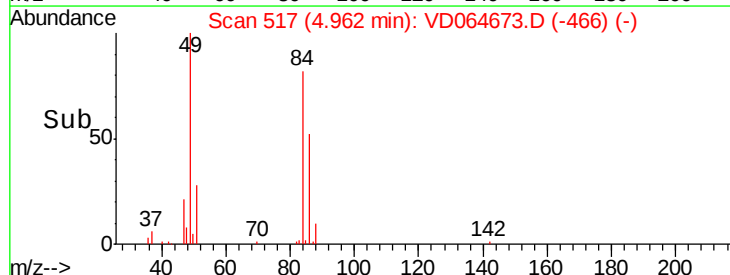
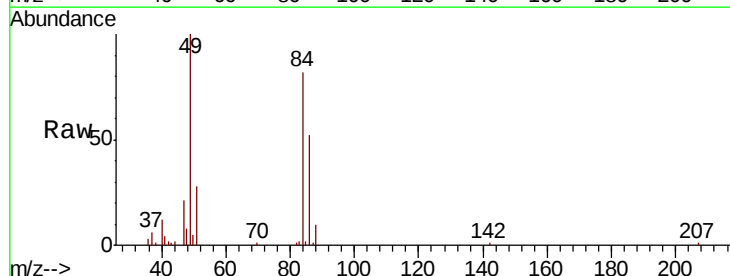
Tot Ion: 73 Resp: 162650
 Ion Ratio Lower Upper
 73 100
 57 22.5 18.6 27.8

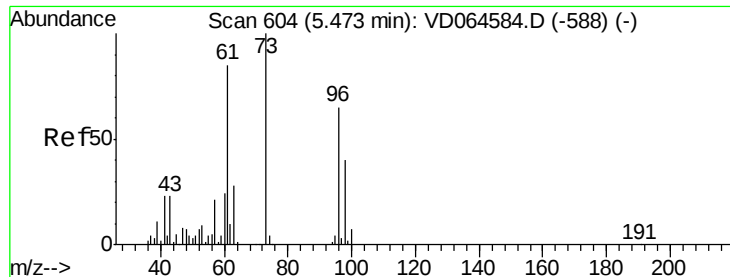


#20

Methylene Chloride
 Concen: 20.491 ug/l
 RT: 4.96 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Tgt Ion: 84 Resp: 88186
 Ion Ratio Lower Upper
 84 100
 49 121.7 97.2 145.8
 51 34.0 31.4 47.0
 86 63.0 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 21.007 ug/l

RT: 5.47 min Scan# 603

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

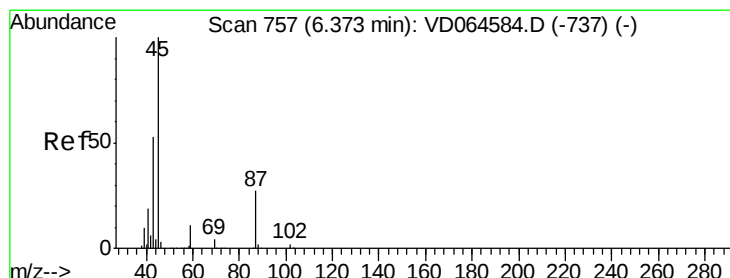
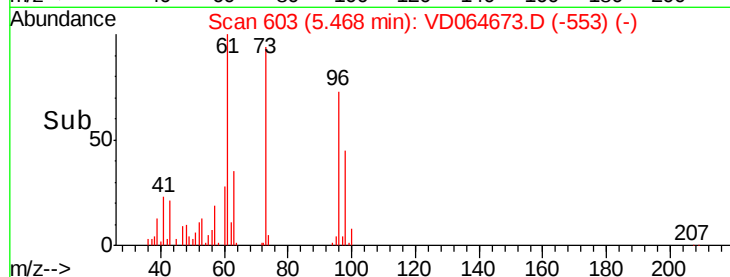
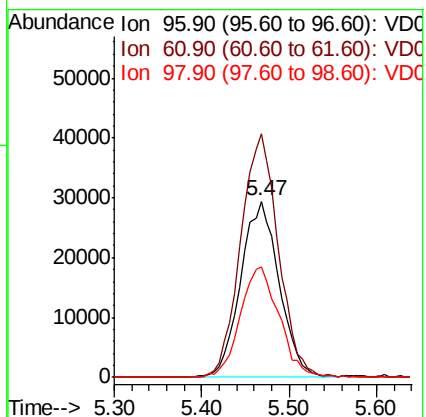
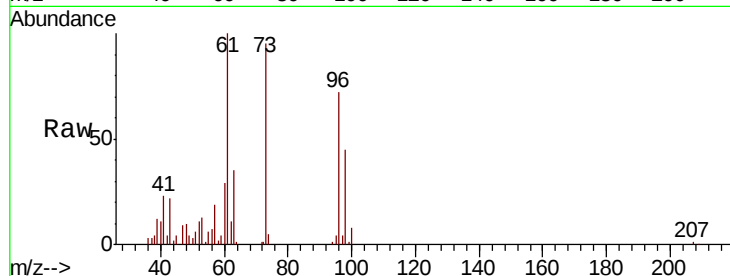
Tot Ion: 96 Resp: 88047

Ion Ratio Lower Upper

96 100

61 138.2 104.7 157.1

98 62.5 49.4 74.2



#22

Diisopropyl ether

Concen: 20.831 ug/l

RT: 6.37 min Scan# 756

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Tgt Ion: 45 Resp: 238413

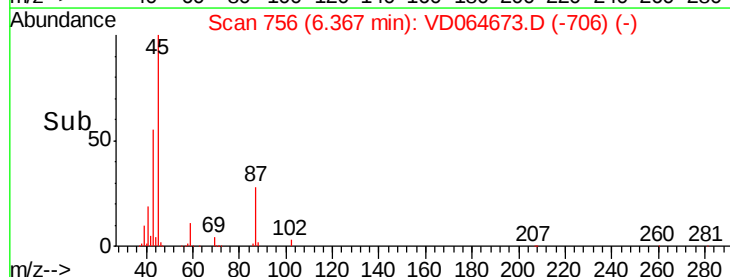
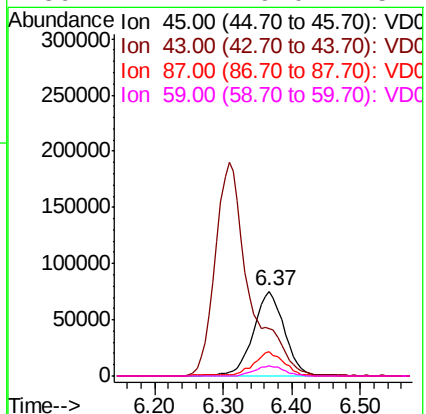
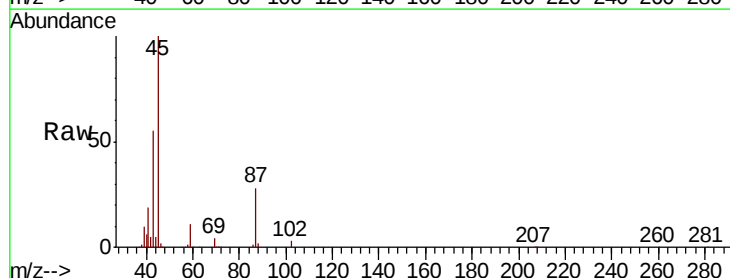
Ion Ratio Lower Upper

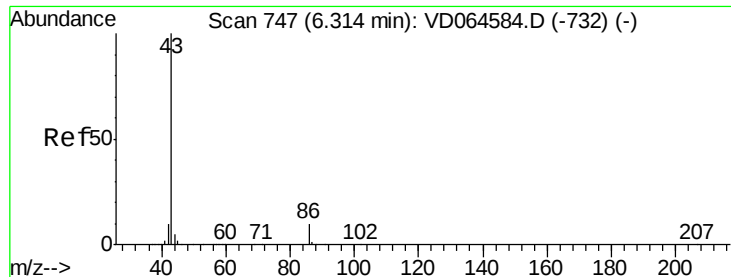
45 100

43 54.3 43.2 64.8

87 28.1 21.9 32.9

59 11.4 9.0 13.4





#23

Vinyl Acetate

Concen: 100.967 ug/l

RT: 6.31 min Scan# 746

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

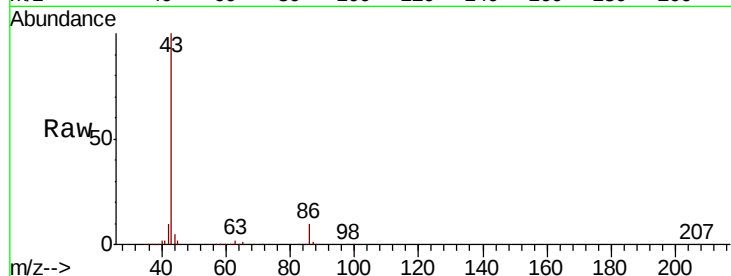
VD1230SBS01

Tot Ion: 43 Resp: 655523

Ion Ratio Lower Upper

43 100

86 10.4 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 86.00 (85.70 to 86.70): VDC

6.31

200000

150000

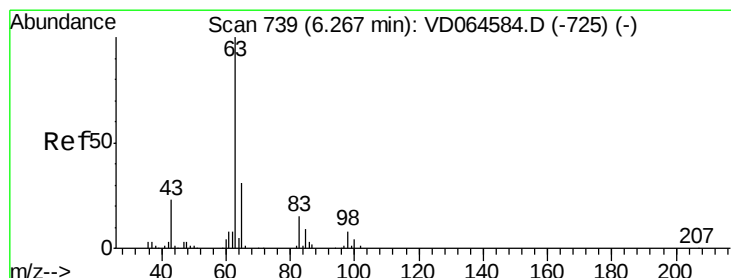
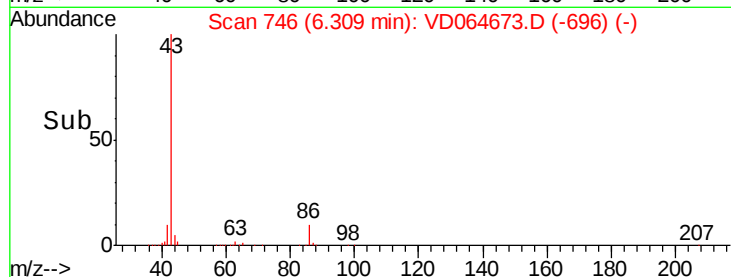
100000

50000

0

6.20 6.30 6.40 6.50

Time-->



#24

1,1-Dichloroethane

Concen: 21.161 ug/l

RT: 6.27 min Scan# 739

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

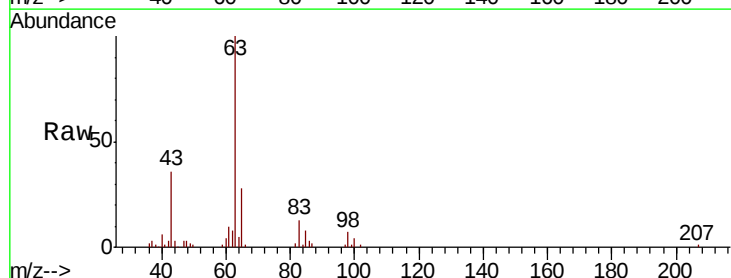
Tgt Ion: 63 Resp: 145395

Ion Ratio Lower Upper

63 100

98 7.3 4.1 12.3

100 4.3 2.2 6.6



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

6.27

60000

50000

40000

30000

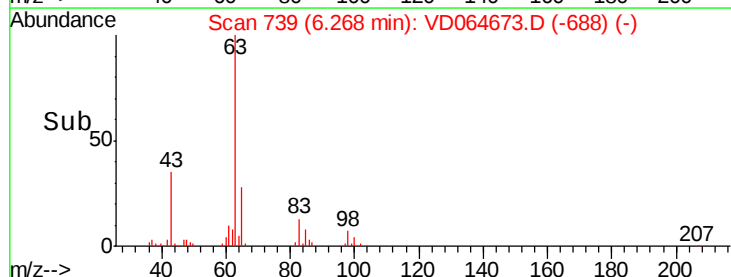
20000

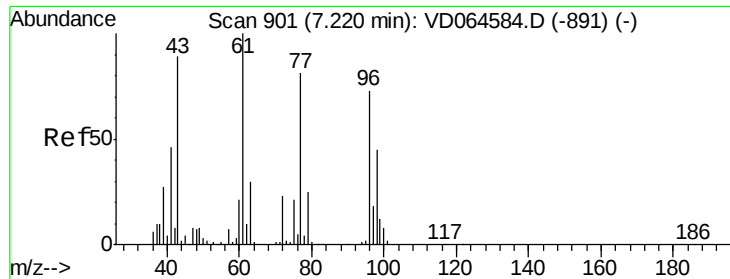
10000

0

6.10 6.20 6.30 6.40

Time-->





#25

2-Butanone

Concen: 101.862 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

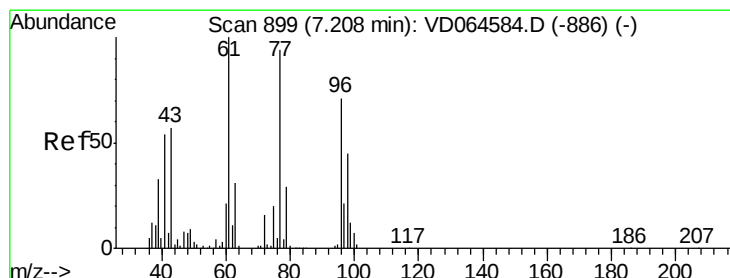
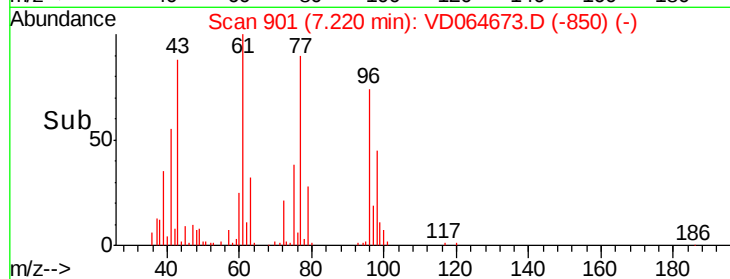
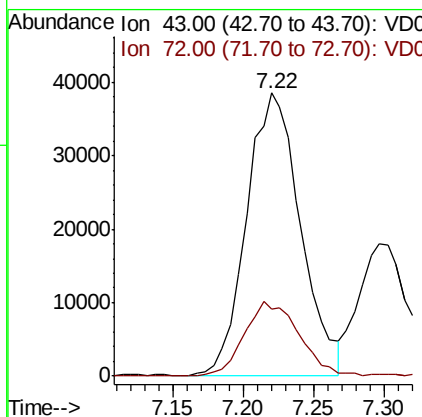
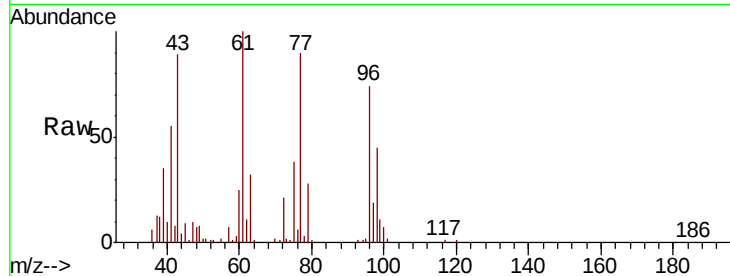
VD1230SBS01

Tot Ion: 43 Resp: 103283

Ion Ratio Lower Upper

43 100

72 23.6 20.7 31.1



#26

2,2-Dichloropropane

Concen: 21.269 ug/l

RT: 7.21 min Scan# 899

Delta R.T. 0.00 min

Lab File: VD064673.D

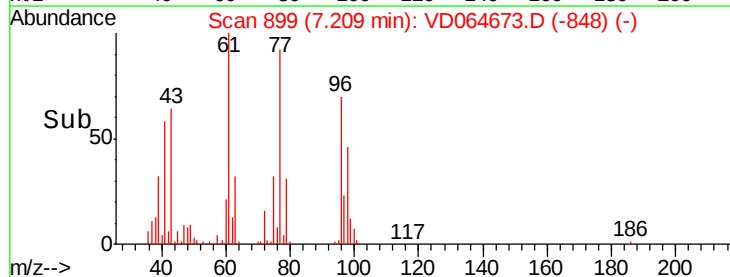
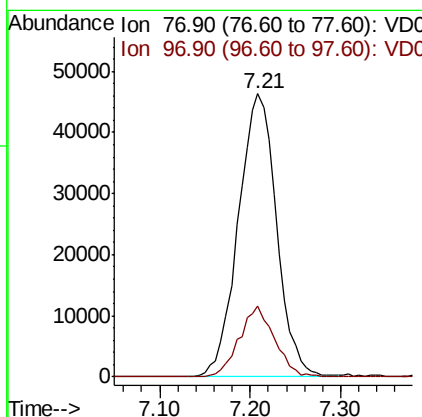
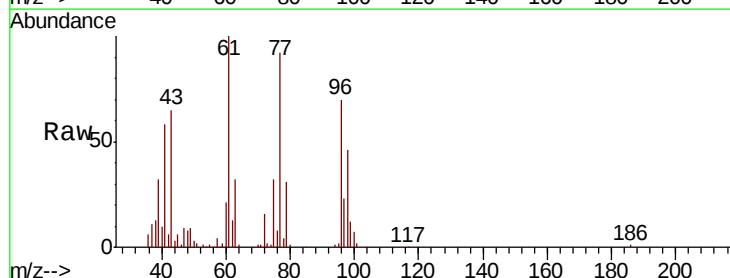
Acq: 30 Dec 2019 12:46

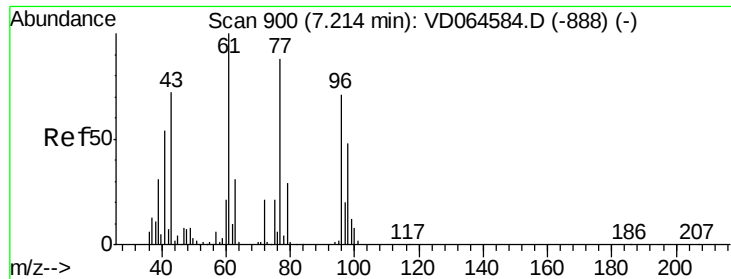
Tgt Ion: 77 Resp: 135871

Ion Ratio Lower Upper

77 100

97 22.9 11.2 33.6



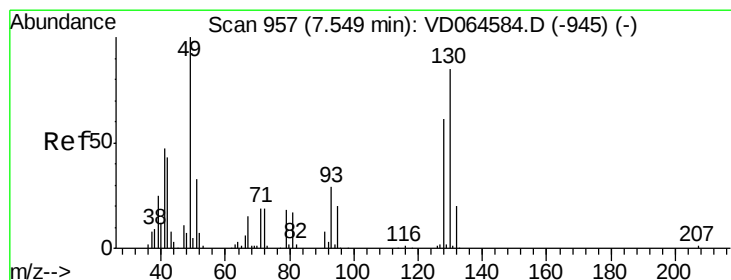
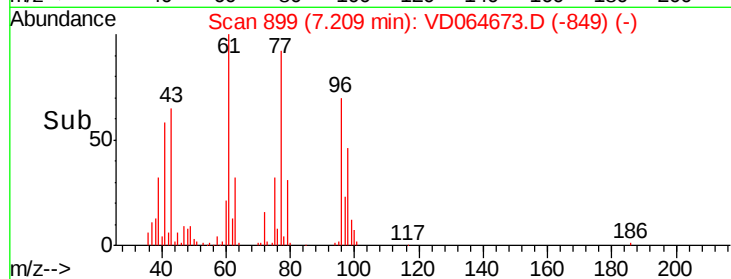
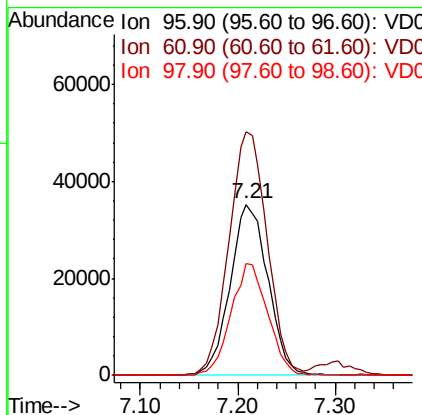
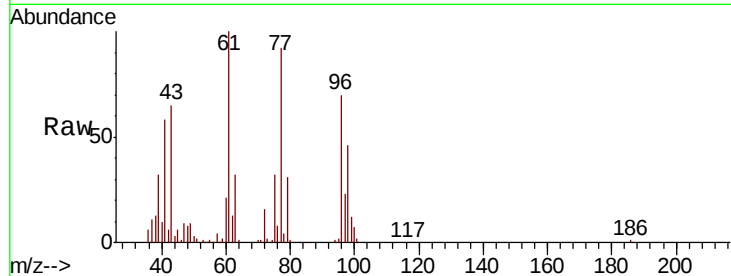


#27

cis-1,2-Dichloroethene
Concen: 20.958 ug/l
RT: 7.21 min Scan# 899
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

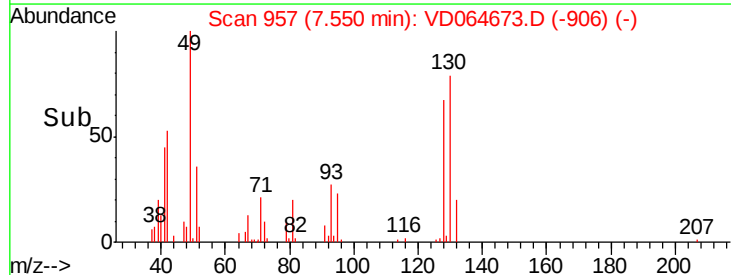
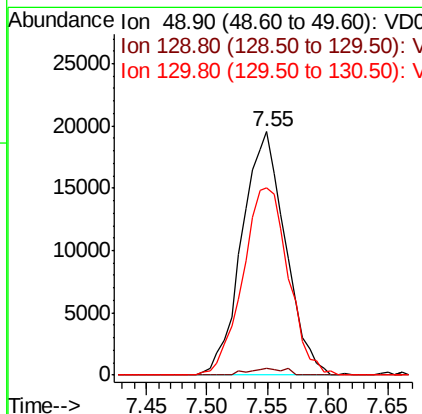
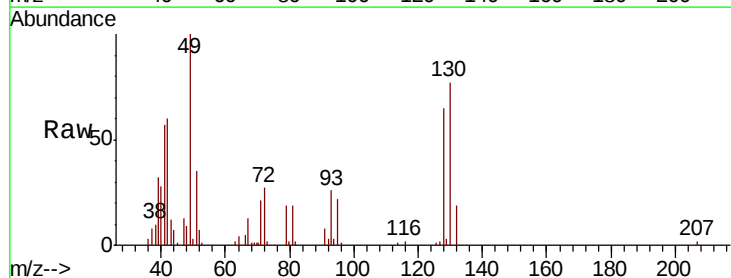
Tot Ion: 96 Resp: 94802
Ion Ratio Lower Upper
96 100
61 143.9 0.0 282.6
98 63.6 0.0 130.8

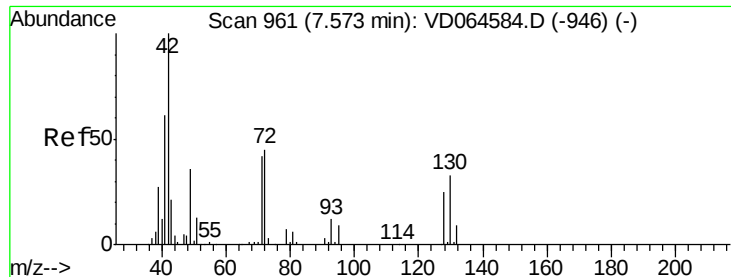


#28

Bromochloromethane
Concen: 18.234 ug/l
RT: 7.55 min Scan# 957
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion: 49 Resp: 48703
Ion Ratio Lower Upper
49 100
129 2.3 0.0 4.8
130 80.8 65.0 97.6

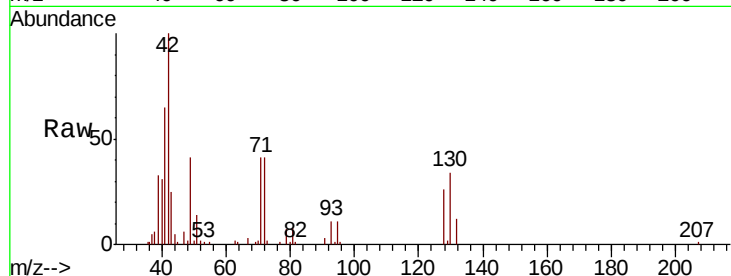




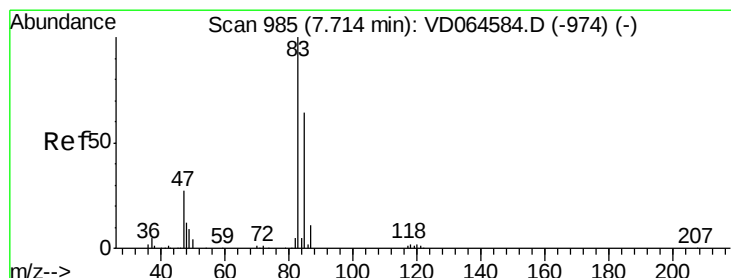
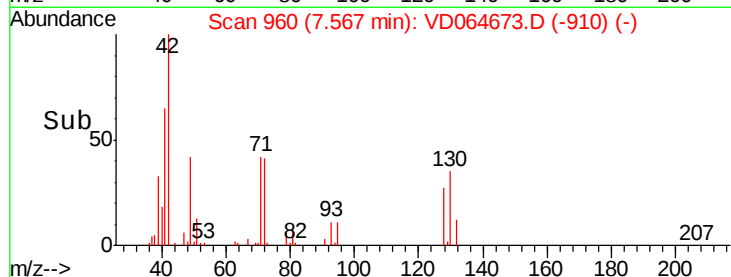
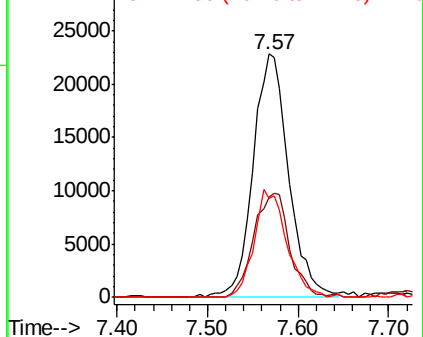
#29
Tetrahydrofuran
Concen: 98.835 ug/l
RT: 7.57 min Scan# 960
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

Tot Ion: 42 Resp: 62320
Ion Ratio Lower Upper
42 100
72 43.4 35.0 52.4
71 40.2 32.9 49.3

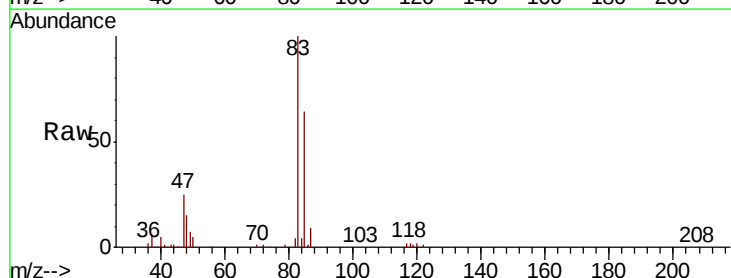


Abundance Ion 42.00 (41.70 to 42.70): VDC
Ion 72.00 (71.70 to 72.70): VDC
Ion 71.00 (70.70 to 71.70): VDC

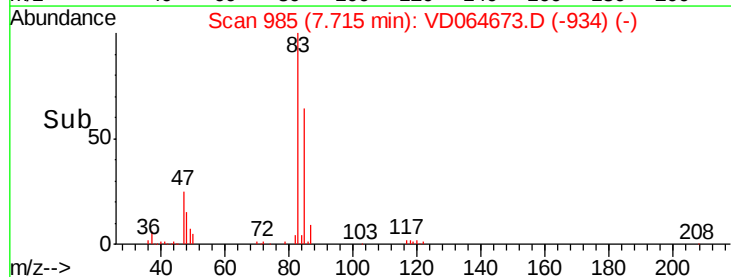
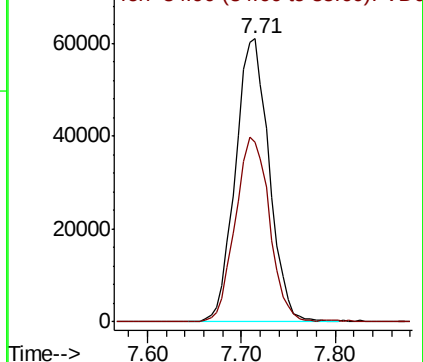


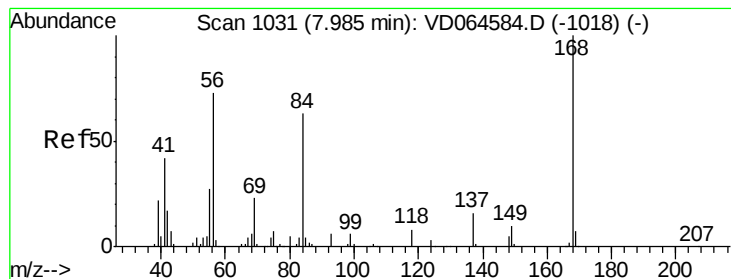
#30
Chloroform
Concen: 21.042 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion: 83 Resp: 151685
Ion Ratio Lower Upper
83 100
85 63.6 51.1 76.7



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





#31

Cyclohexane

Concen: 20.971 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

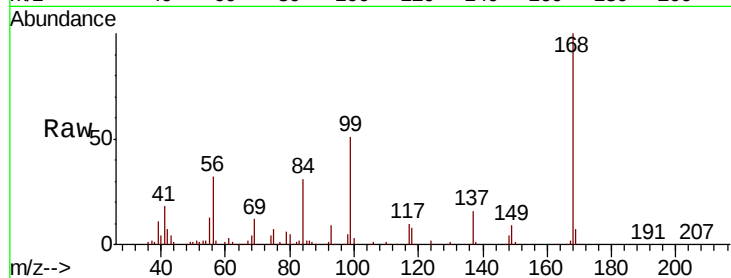
Tot Ion: 56 Resp: 144236

Ion Ratio Lower Upper

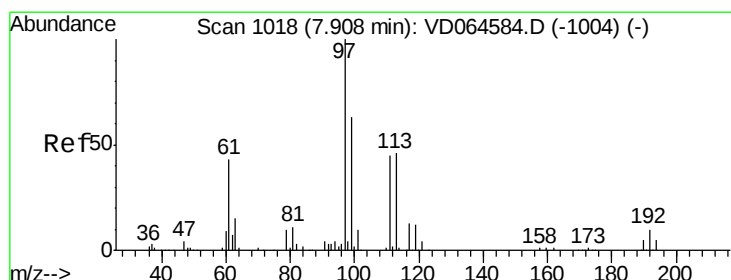
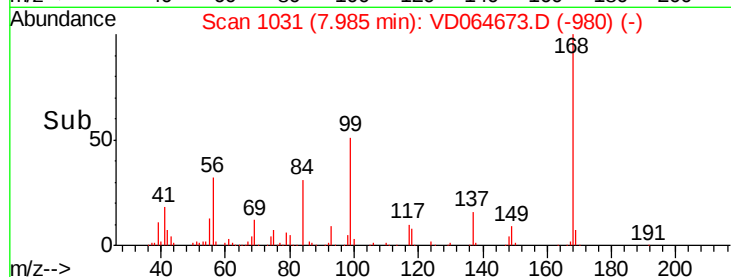
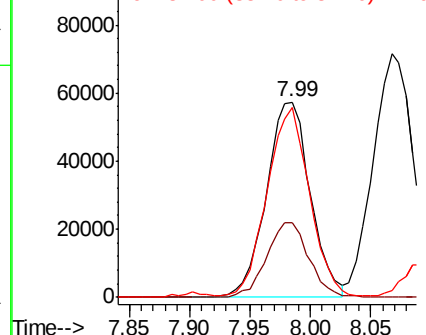
56 100

69 37.5 24.7 37.1#

84 94.3 69.4 104.2



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: 21.430 ug/l

RT: 7.90 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

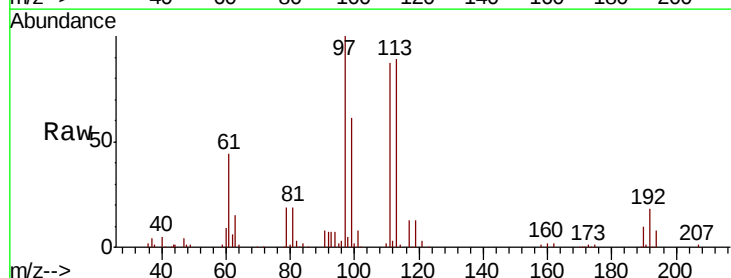
Tgt Ion: 97 Resp: 145099

Ion Ratio Lower Upper

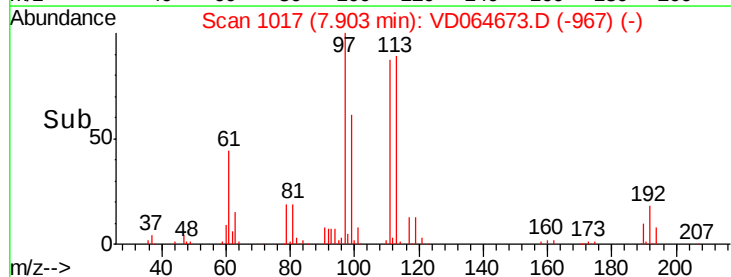
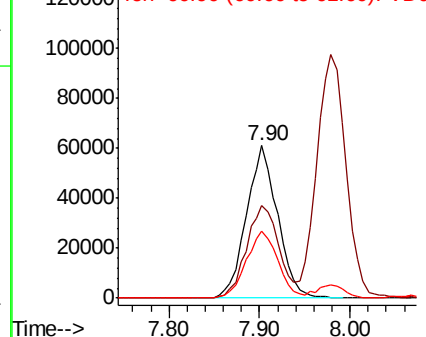
97 100

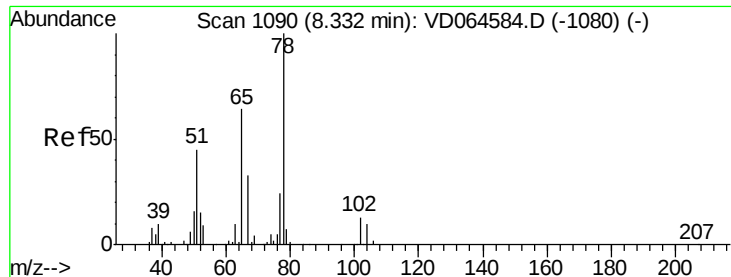
99 62.9 51.0 76.6

61 44.6 35.4 53.0



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

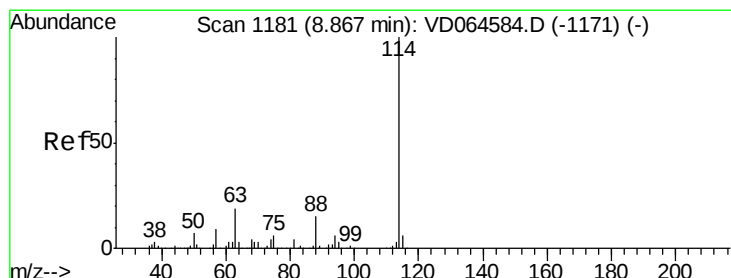
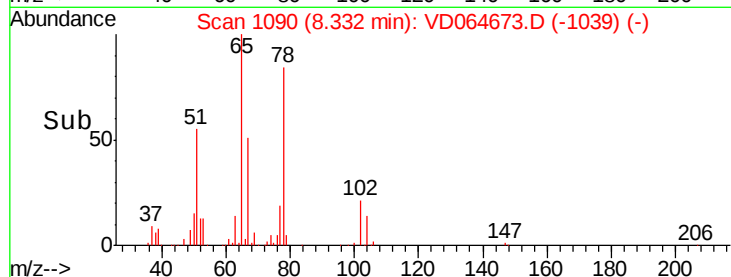
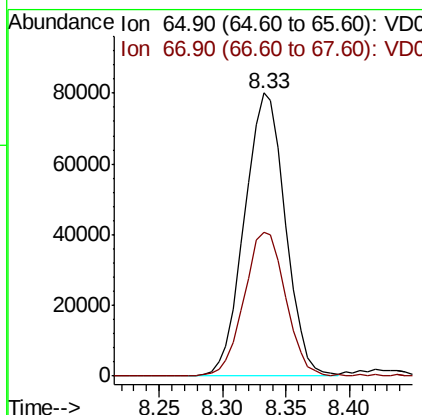
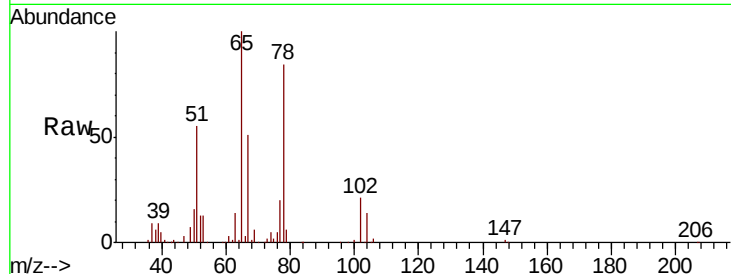




#33
 1,2-Dichloroethane-d4
 Concen: 48.732 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

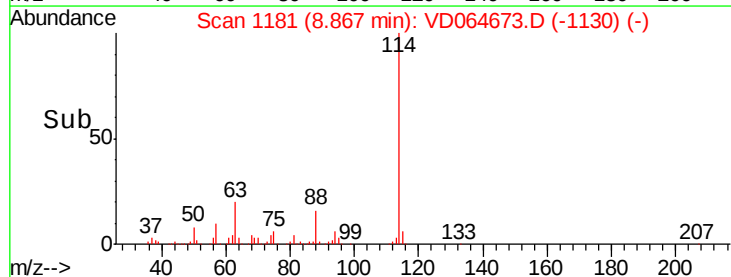
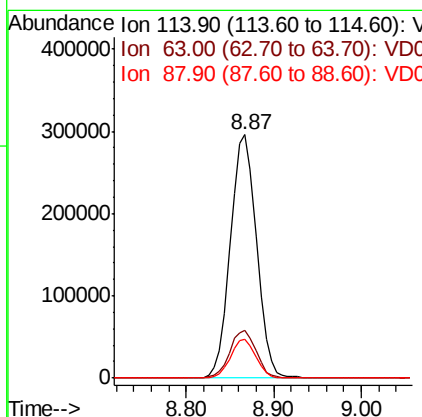
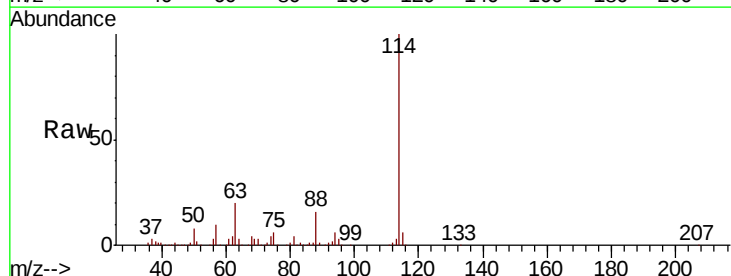
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

Tot Ion: 65 Resp: 179761
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Tgt Ion: 114 Resp: 600612
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.0
 88 15.8 0.0 29.2

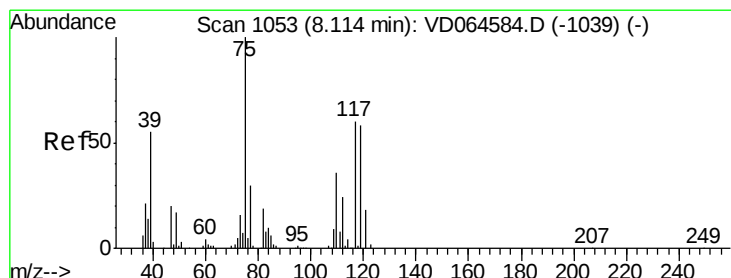
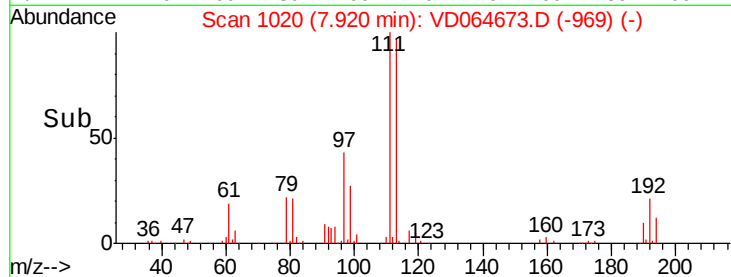
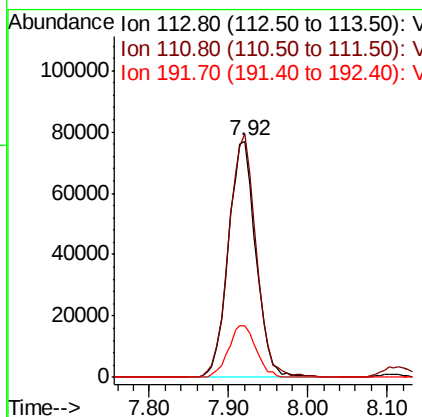
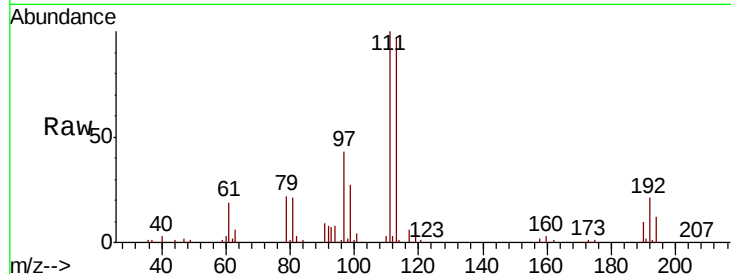




#35
 Dibromofluoromethane
 Concen: 49.958 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

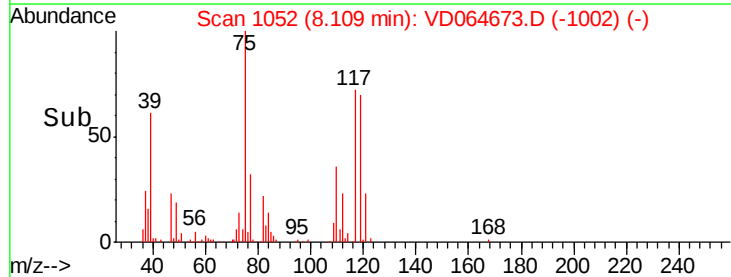
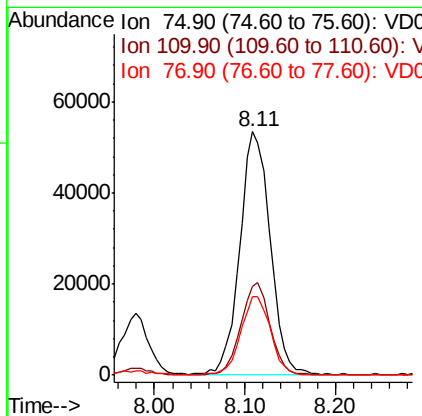
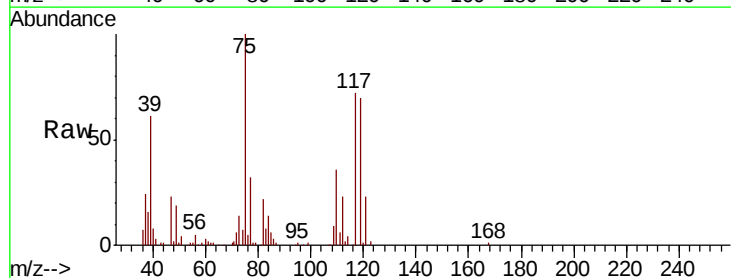
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

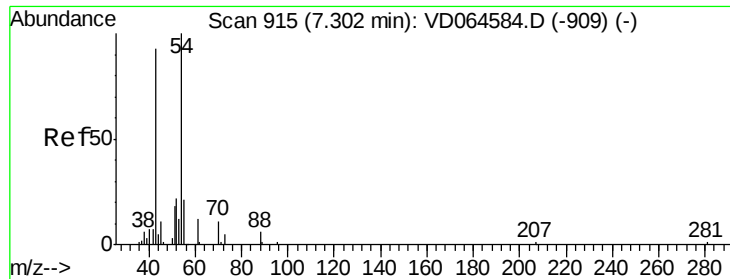
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	80.6	121.0
192	22.1	17.9	26.9



#36
 1,1-Dichloropropene
 Concen: 21.436 ug/l
 RT: 8.11 min Scan# 1052
 Delta R.T. -0.01 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.5	18.1	54.1
77	31.8	24.2	36.4

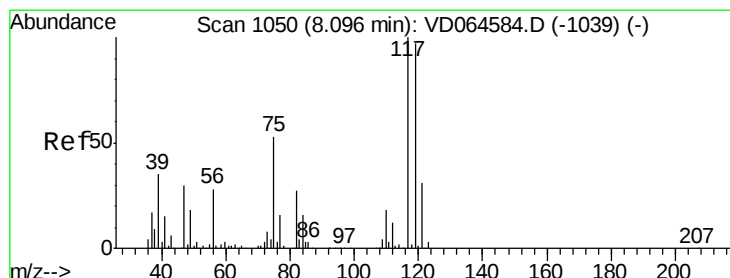
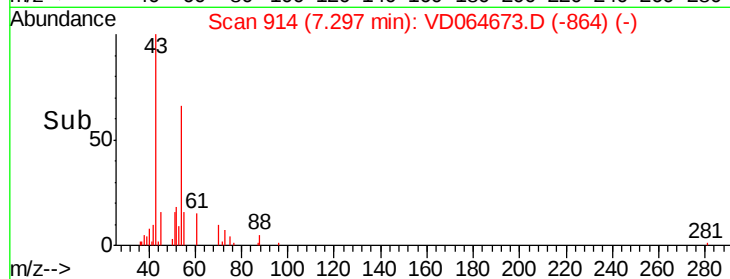
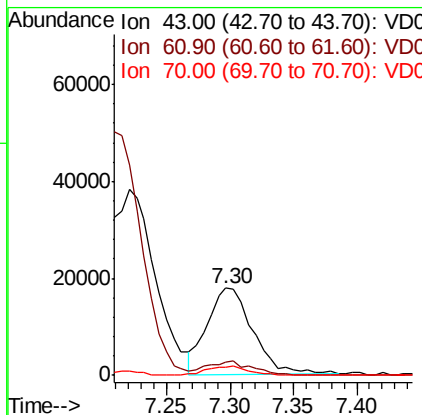
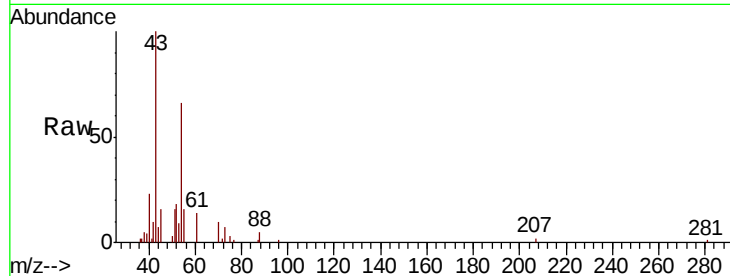




#37
Ethyl Acetate
Concen: 19.631 ug/l
RT: 7.30 min Scan# 914
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

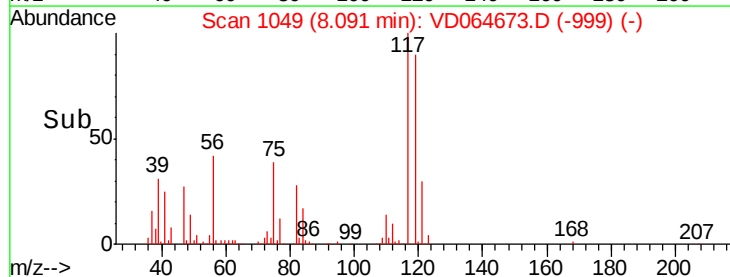
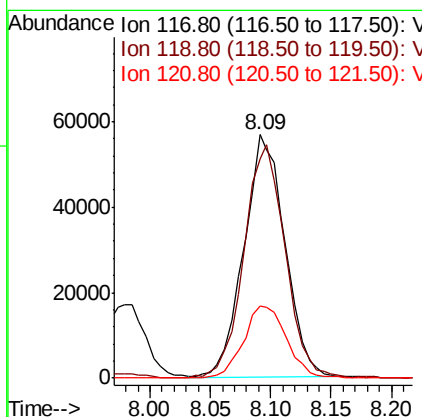
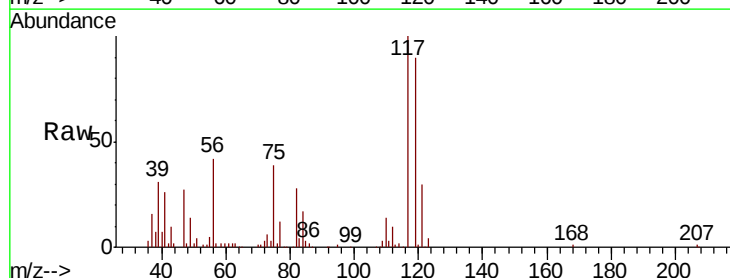
Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

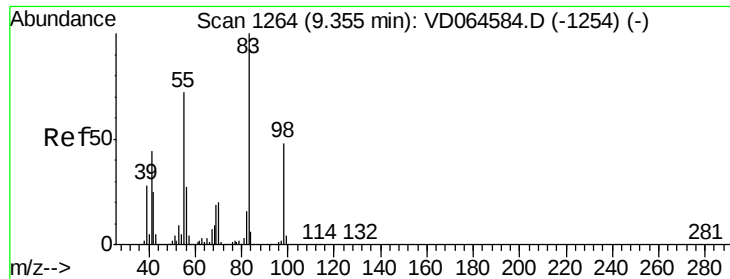
Tot Ion: 43 Resp: 44582
Ion Ratio Lower Upper
43 100
61 16.2 10.3 15.5#
70 9.5 7.6 11.4



#38
Carbon Tetrachloride
Concen: 21.810 ug/l
RT: 8.09 min Scan# 1049
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion: 117 Resp: 134438
Ion Ratio Lower Upper
117 100
119 90.3 77.3 115.9
121 29.8 25.0 37.6

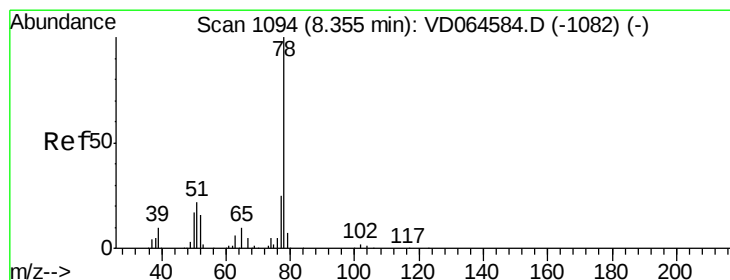
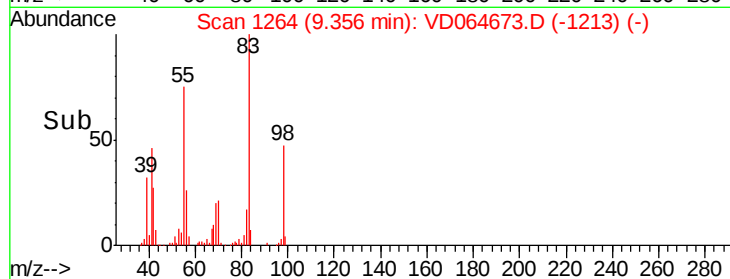
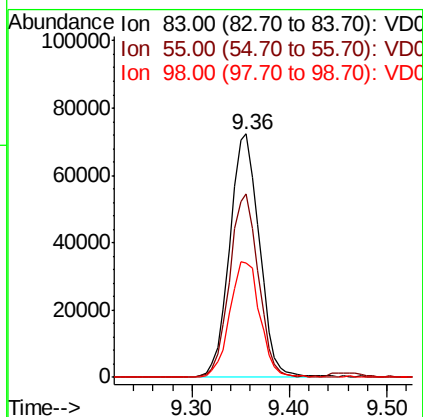
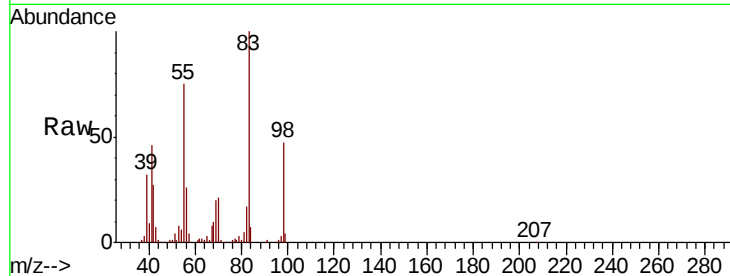




#39
Methvlcvclohexane
Concen: 21.849 ug/l
RT: 9.36 min Scan# 1264
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

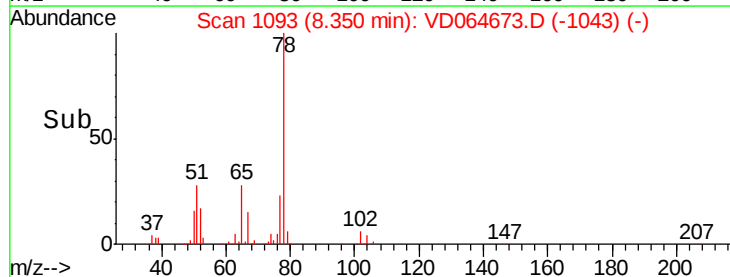
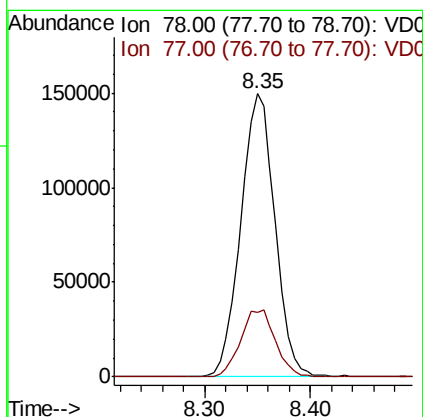
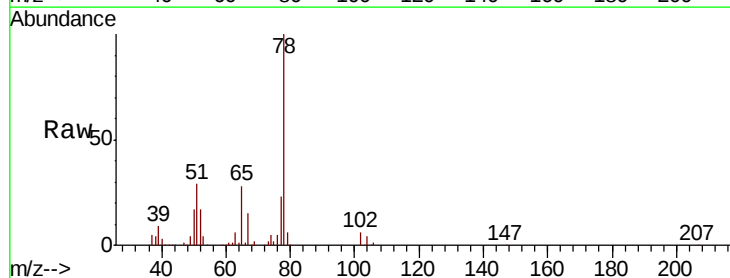
Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

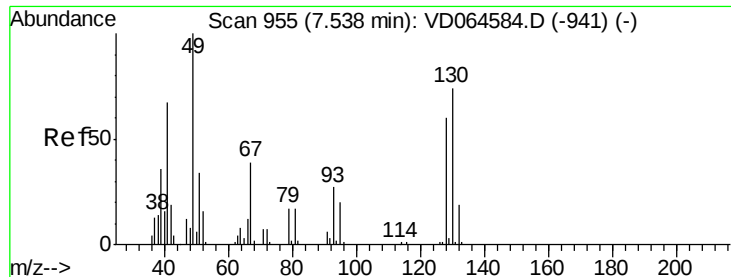
Tot Ion: 83 Resp: 152980
Ion Ratio Lower Upper
83 100
55 75.3 57.8 86.6
98 47.0 38.7 58.1



#40
Benzene
Concen: 21.301 ug/l
RT: 8.35 min Scan# 1093
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion: 78 Resp: 336160
Ion Ratio Lower Upper
78 100
77 22.9 19.9 29.9

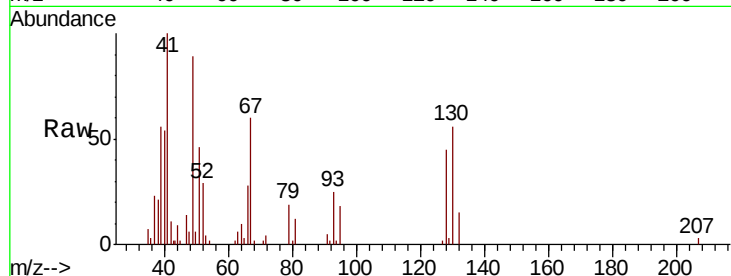




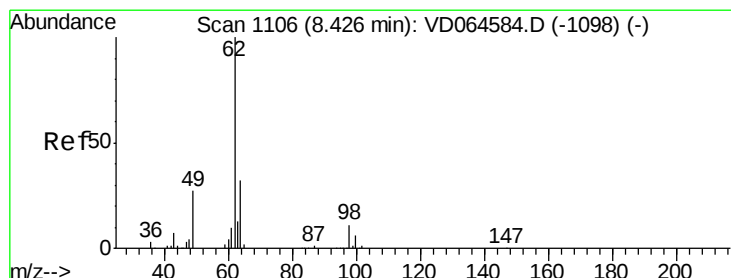
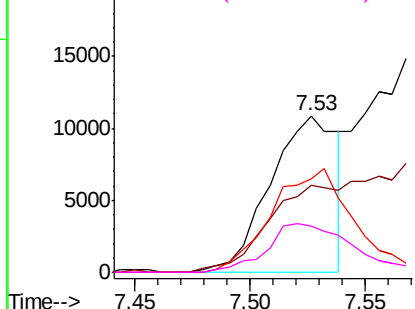
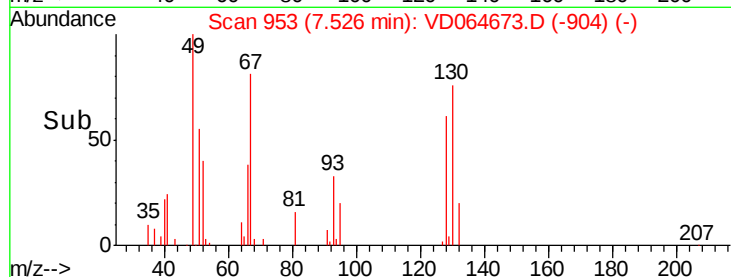
#41
Methacrylonitrile
Concen: 16.734 ug/l
RT: 7.53 min Scan# 953
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

Tot Ion: 41 Resp: 22049
Ion Ratio Lower Upper
41 100
39 0.0 46.7 70.1#
67 81.2 52.5 78.7#
52 39.5 24.1 36.1#

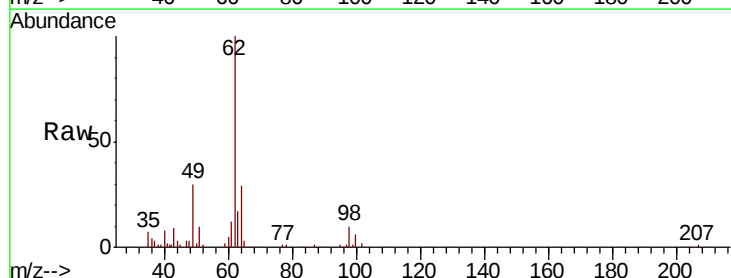


Abundance Ion 41.00 (40.70 to 41.70): VDC
Ion 39.00 (38.70 to 39.70): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

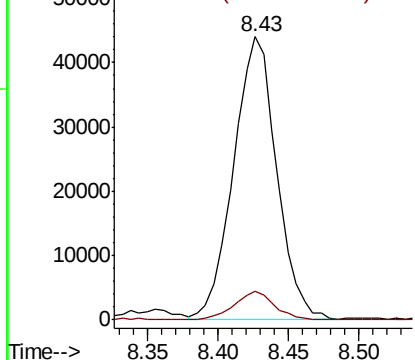
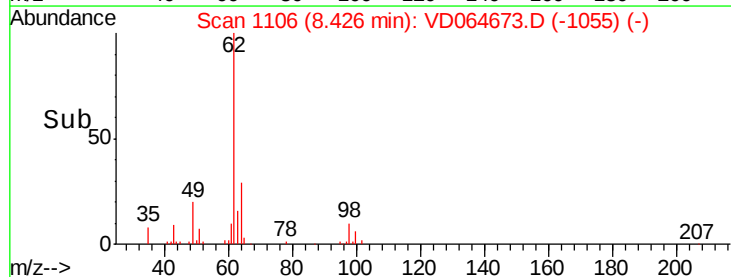


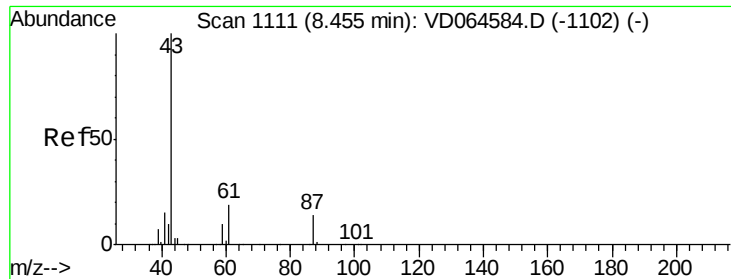
#42
1,2-Dichloroethane
Concen: 20.478 ug/l
RT: 8.43 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion: 62 Resp: 93389
Ion Ratio Lower Upper
62 100
98 9.4 0.0 20.0



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



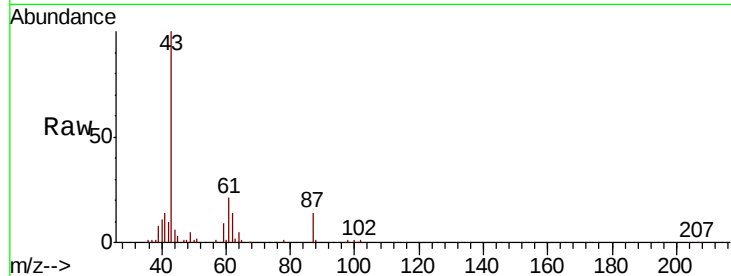


#43

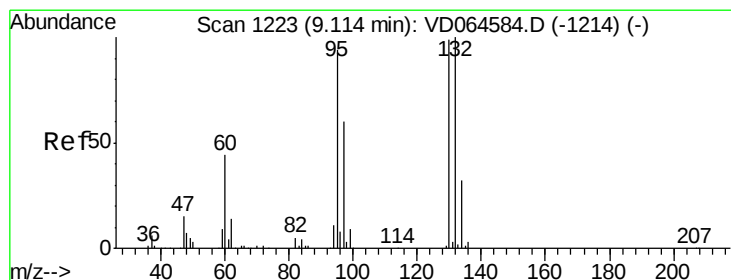
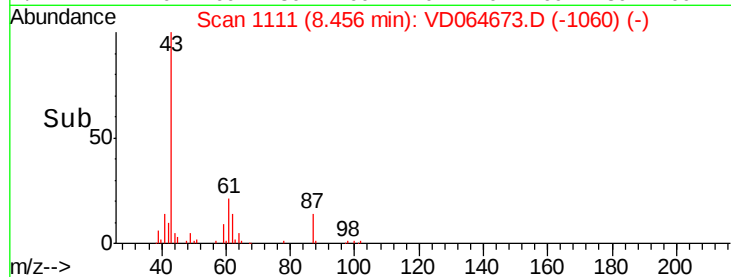
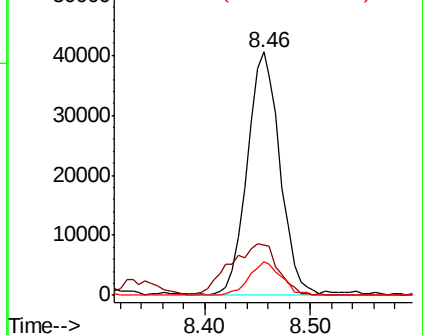
Isopropyl Acetate
 Concen: 19.448 ug/l
 RT: 8.46 min Scan# 1111
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

Tot Ion: 43 Resp: 87909
 Ion Ratio Lower Upper
 43 100
 61 30.6 23.7 35.5
 87 13.4 10.5 15.7



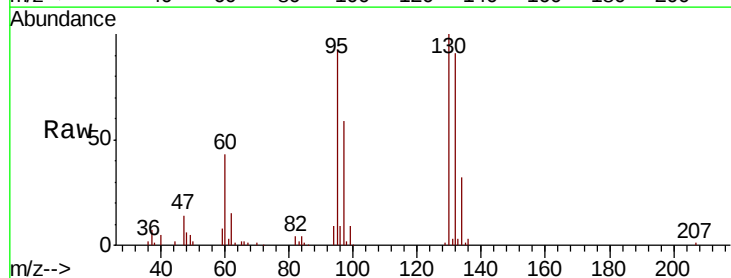
Abundance Ion 43.00 (42.70 to 43.70): VDC
 Ion 61.00 (60.70 to 61.70): VDC
 Ion 87.00 (86.70 to 87.70): VDC



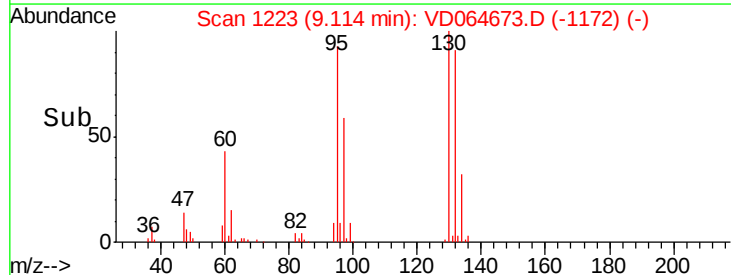
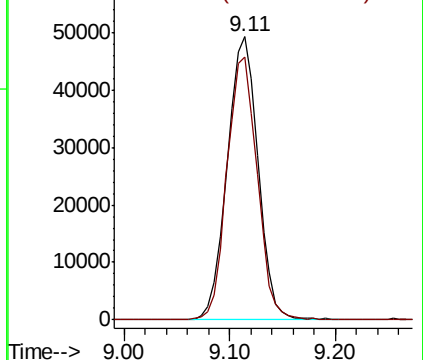
#44

Trichloroethene
 Concen: 21.401 ug/l
 RT: 9.11 min Scan# 1223
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Tgt Ion: 130 Resp: 99214
 Ion Ratio Lower Upper
 130 100
 95 93.0 0.0 190.2



Abundance Ion 129.80 (129.50 to 130.50): VDC
 Ion 94.90 (94.60 to 95.60): VDC





#45

1,2-Dichloropropane

Concen: 21.340 ug/l

RT: 9.39 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

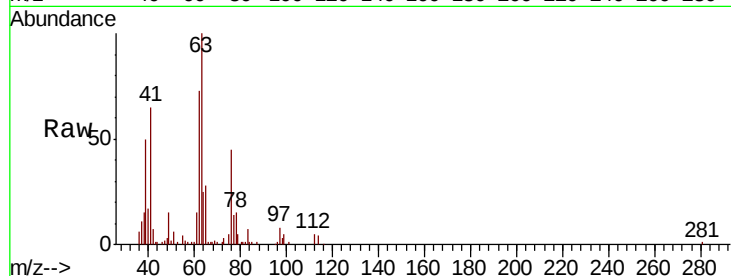
VD1230SBS01

Tot Ion: 63 Resp: 80408

Ion Ratio Lower Upper

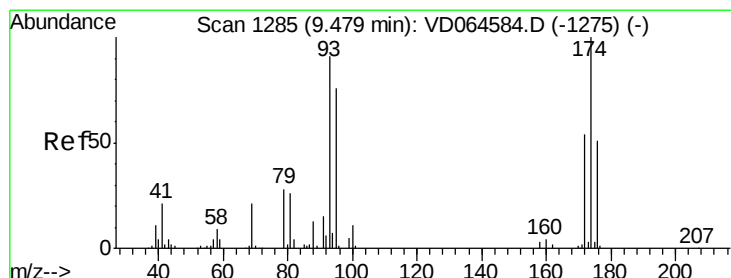
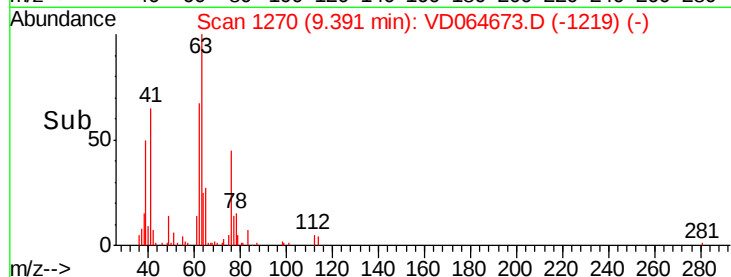
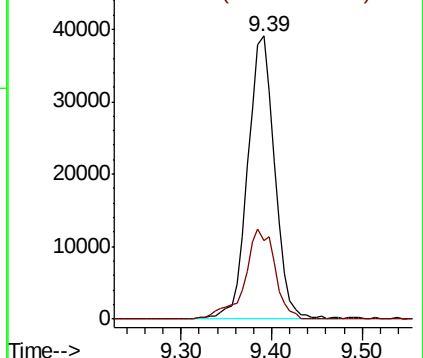
63 100

65 27.8 25.2 37.8



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#46

Dibromomethane

Concen: 20.328 ug/l

RT: 9.48 min Scan# 1285

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

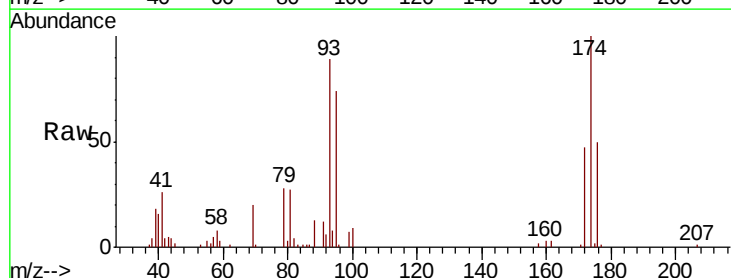
Tgt Ion: 93 Resp: 42705

Ion Ratio Lower Upper

93 100

95 80.6 64.6 97.0

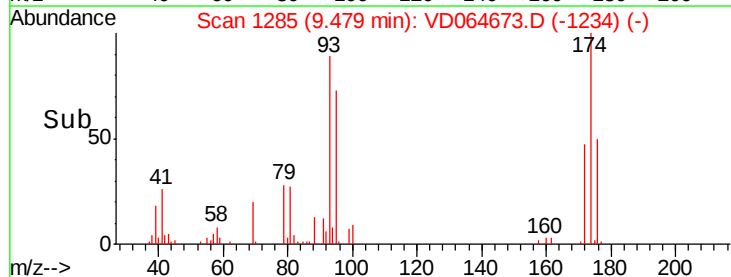
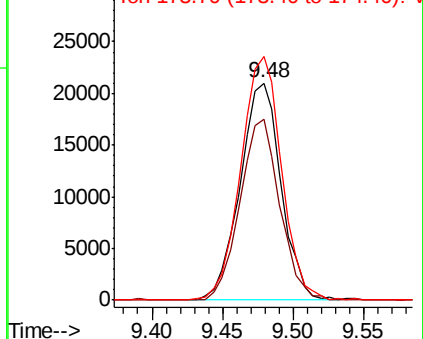
174 111.9 88.1 132.1

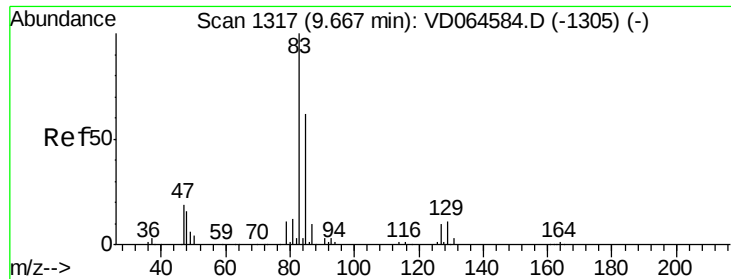


Abundance Ion 92.80 (92.50 to 93.50): VDC

Ion 94.80 (94.50 to 95.50): VDC

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 20.483 ug/l

RT: 9.66 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

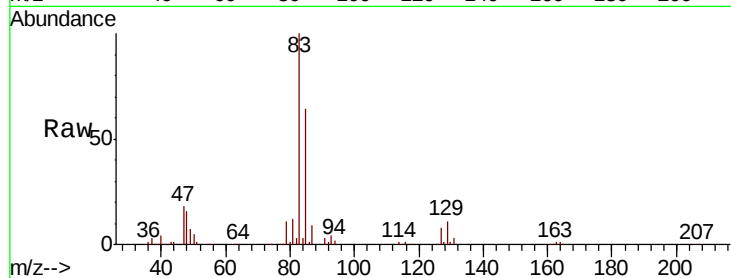
Tot Ion: 83 Resp: 114504

Ion Ratio Lower Upper

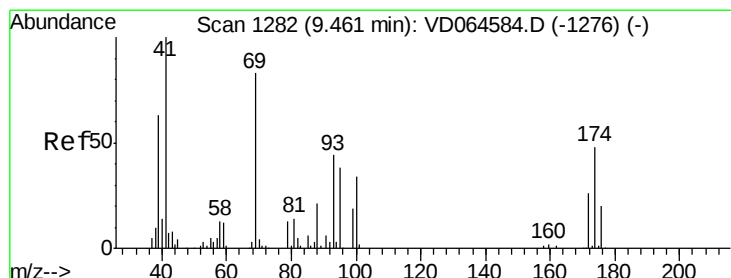
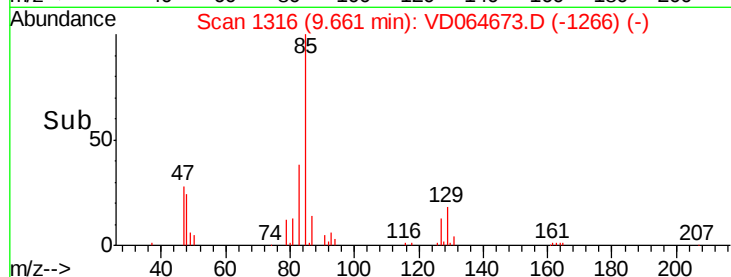
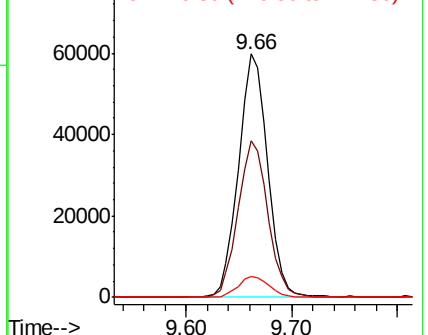
83 100

85 64.3 49.5 74.3

127 8.4 7.8 11.6



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: 18.902 ug/l

RT: 9.46 min Scan# 1281

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

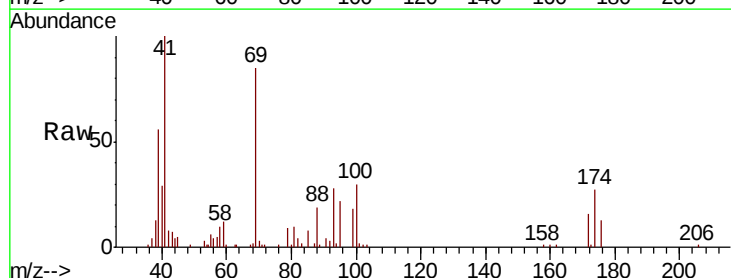
Tgt Ion: 41 Resp: 40230

Ion Ratio Lower Upper

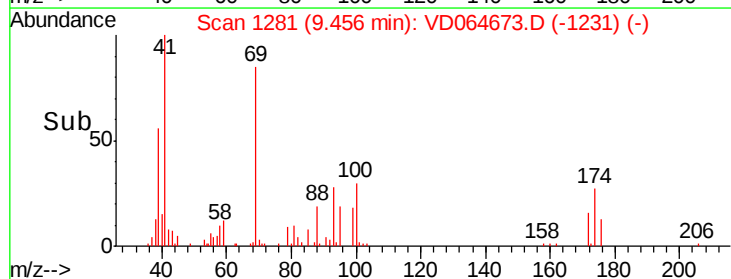
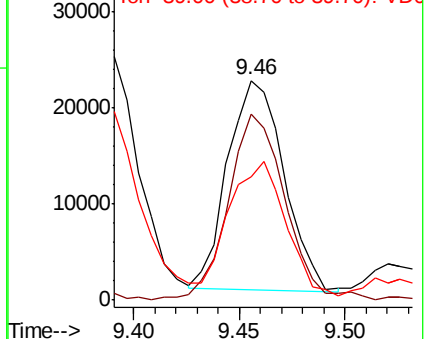
41 100

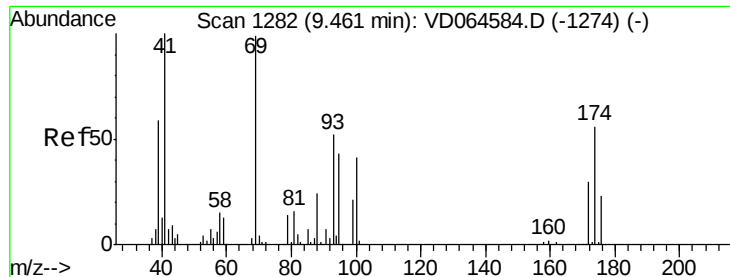
69 89.8 63.0 94.6

39 64.0 47.4 71.2



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

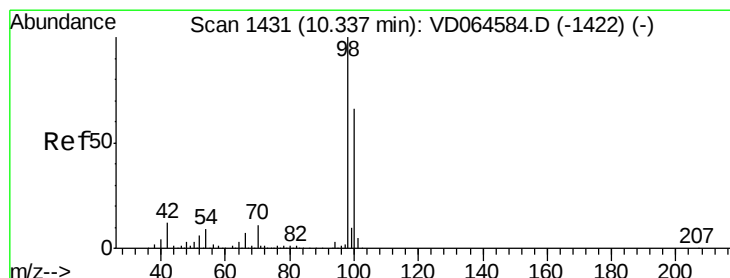
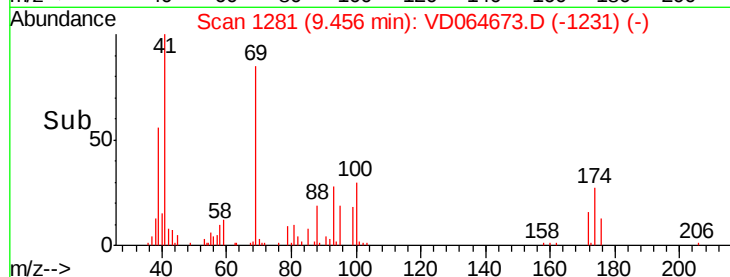
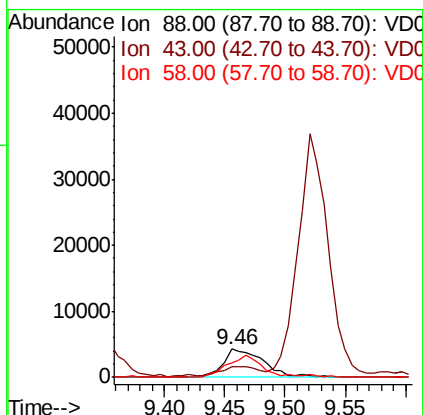
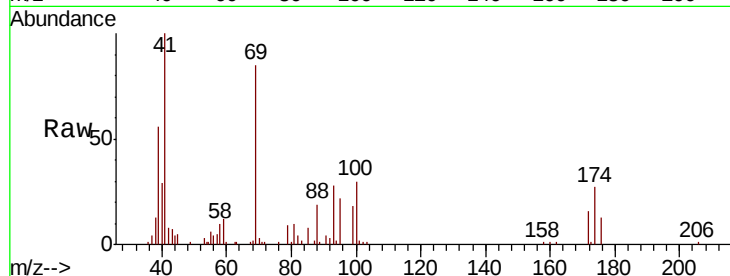




#49
1,4-Dioxane
Concen: 410.597 ug/l
RT: 9.46 min Scan# 1281
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

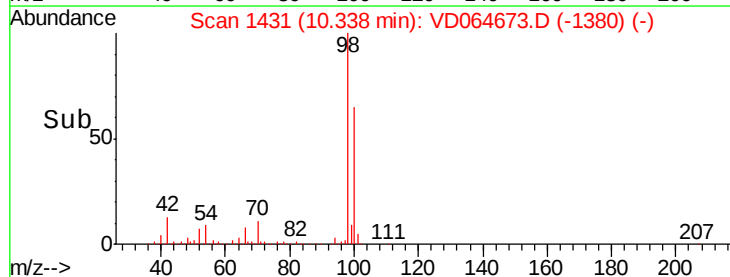
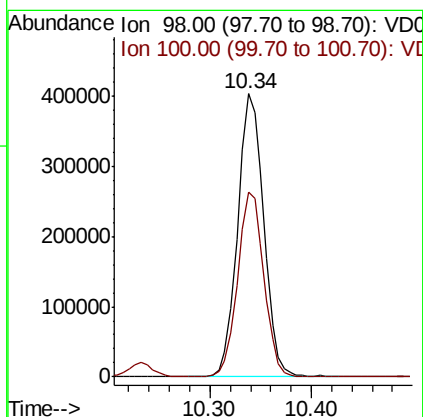
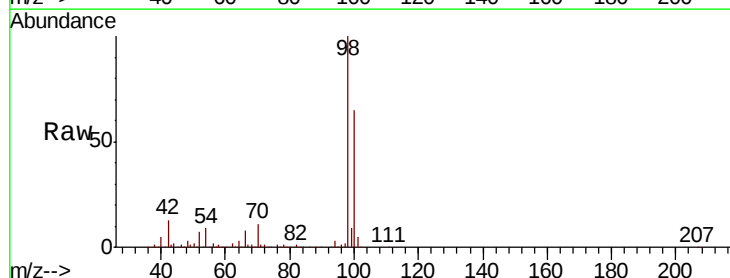
Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

Tot Ion: 88 Resp: 9946
Ion Ratio Lower Upper
88 100
43 35.1 27.7 41.5
58 67.6 53.8 80.6



#50
Toluene-d8
Concen: 51.021 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion: 98 Resp: 720046
Ion Ratio Lower Upper
98 100
100 65.9 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 97.720 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

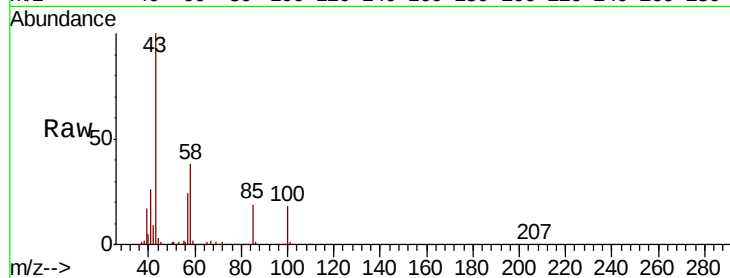
VD1230SBS01

Tot Ion: 43 Resp: 218333

Ion Ratio Lower Upper

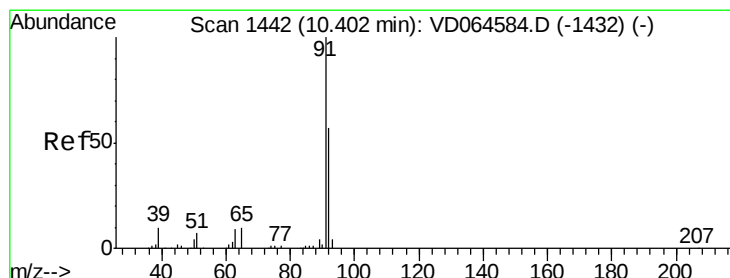
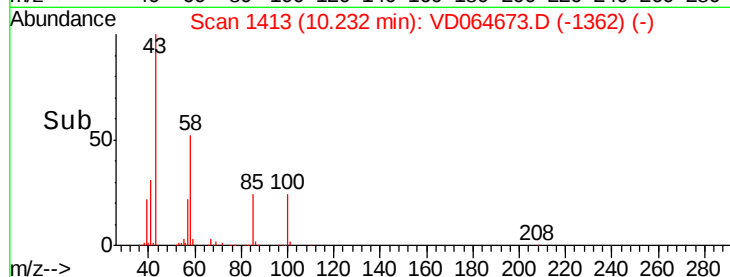
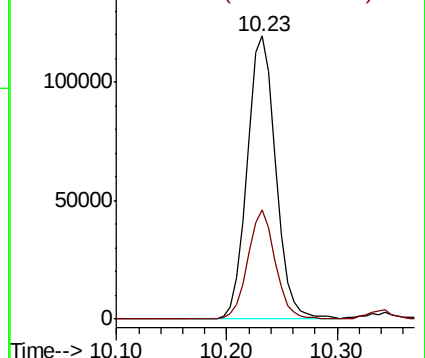
43 100

58 36.9 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 20.925 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VD064673.D

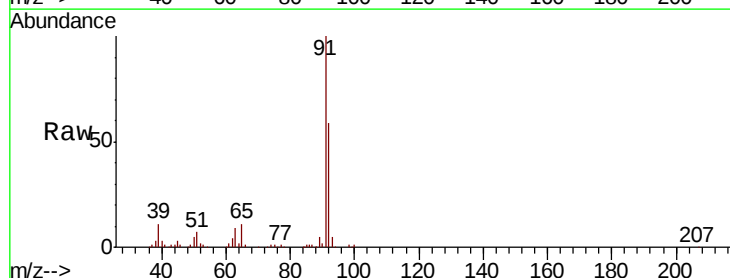
Acq: 30 Dec 2019 12:46

Tgt Ion: 92 Resp: 216653

Ion Ratio Lower Upper

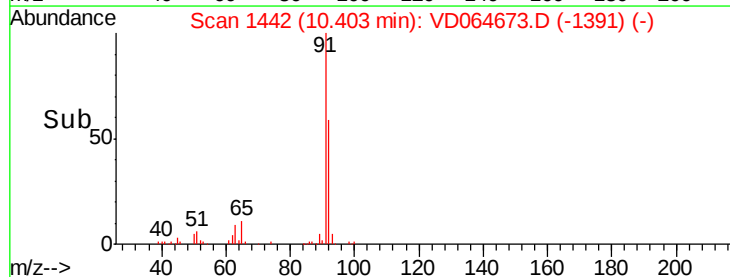
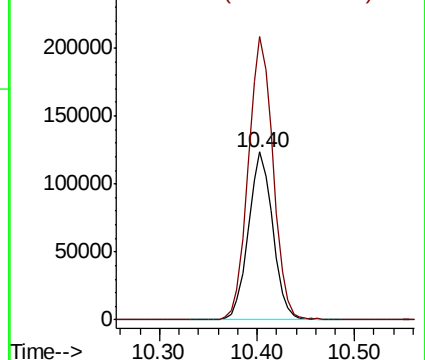
92 100

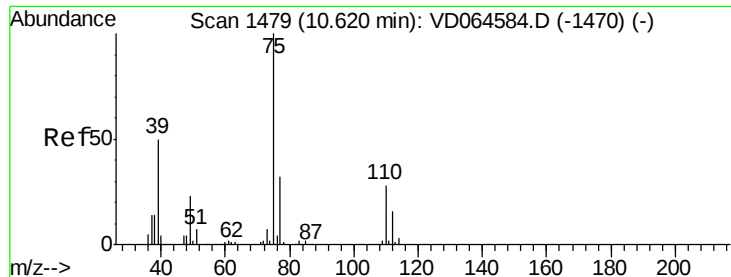
91 171.5 138.7 208.1



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC





#53

t-1,3-Dichloropropene

Concen: 20.596 ug/l

RT: 10.62 min Scan# 1479

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

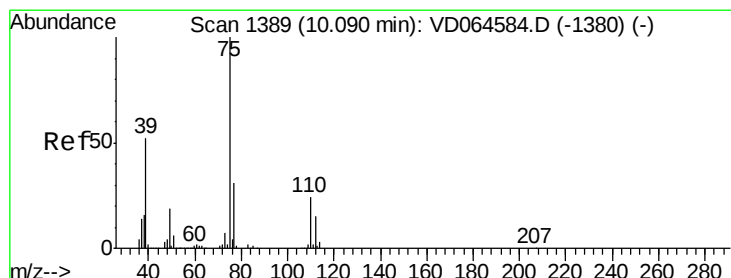
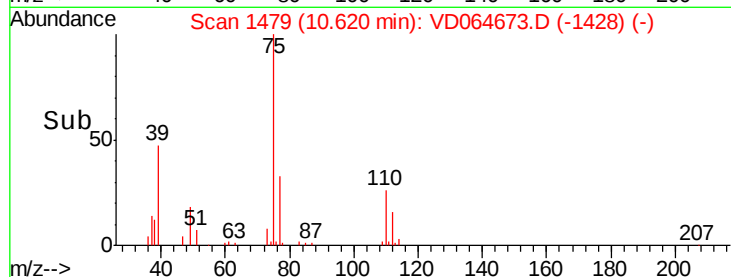
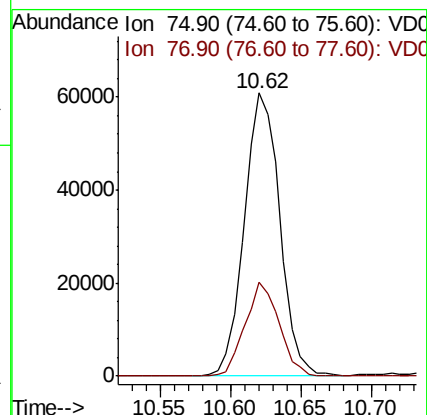
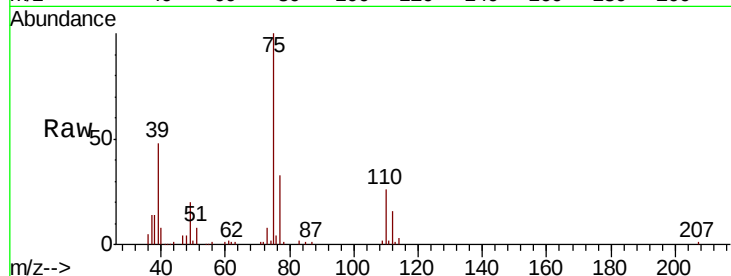
VD1230SBS01

Tot Ion: 75 Resp: 107339

Ion Ratio Lower Upper

75 100

77 33.1 25.4 38.2



#54

cis-1,3-Dichloropropene

Concen: 20.902 ug/l

RT: 10.09 min Scan# 1389

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

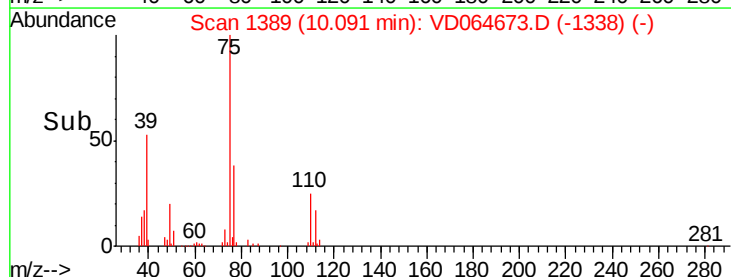
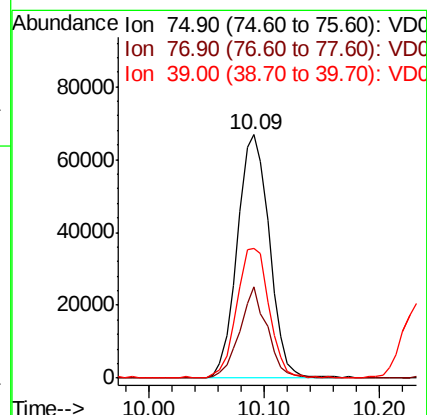
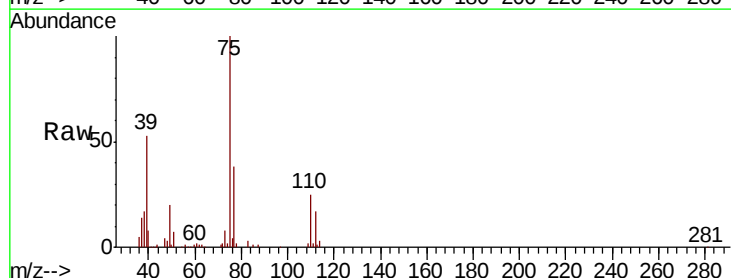
Tgt Ion: 75 Resp: 128452

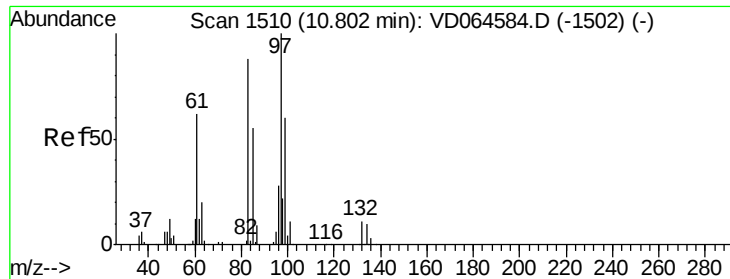
Ion Ratio Lower Upper

75 100

77 37.7 24.6 36.8#

39 53.1 41.4 62.2

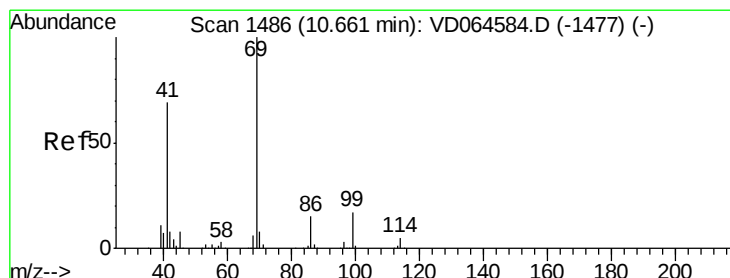
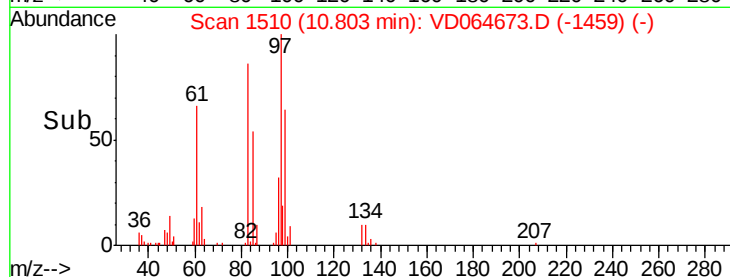
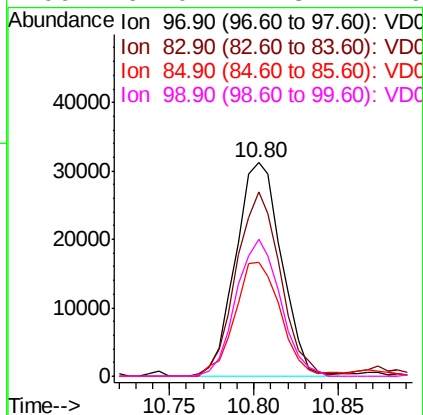
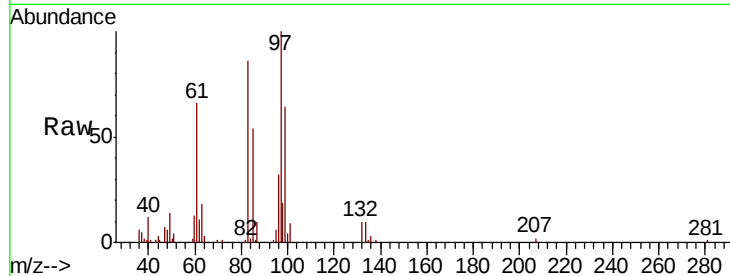




#55
 1,1,2-Trichloroethane
 Concen: 20.740 ug/l
 RT: 10.80 min Scan# 1510
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

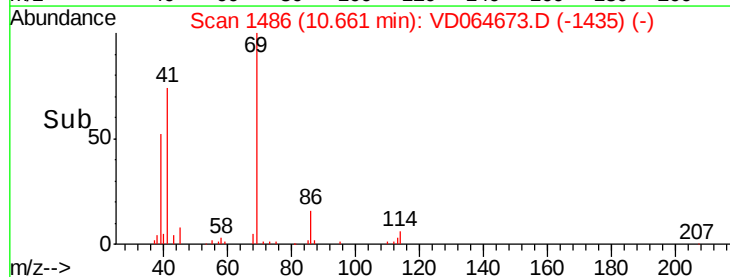
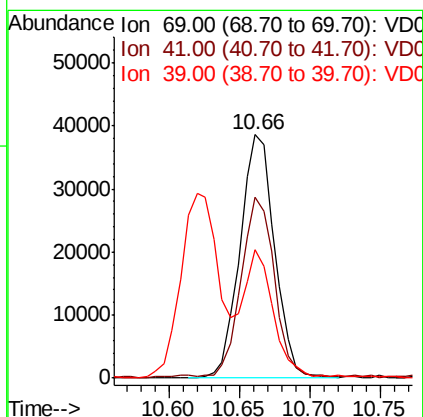
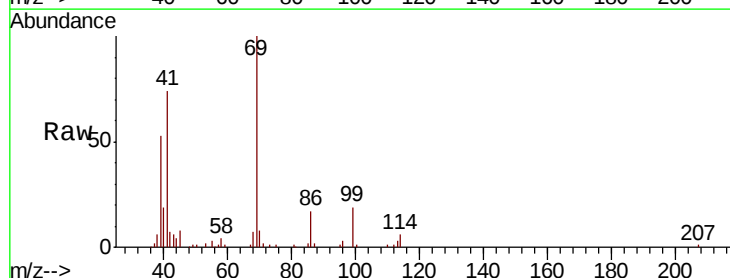
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

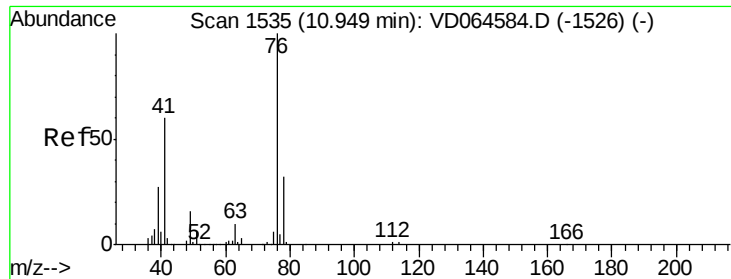
Tot Ion: 97 Resp: 58717
 Ion Ratio Lower Upper
 97 100
 83 86.1 70.2 105.4
 85 53.6 44.0 66.0
 99 64.0 47.8 71.6



#56
 Ethyl methacrylate
 Concen: 18.778 ug/l
 RT: 10.66 min Scan# 1486
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Tgt Ion: 69 Resp: 66394
 Ion Ratio Lower Upper
 69 100
 41 70.1 55.3 82.9
 39 46.7 33.8 50.8

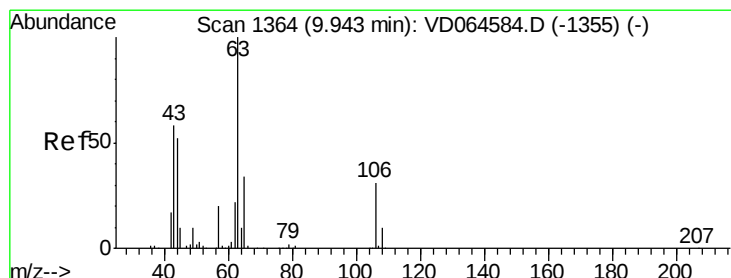
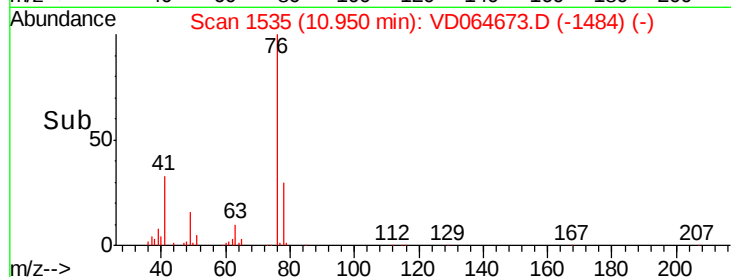
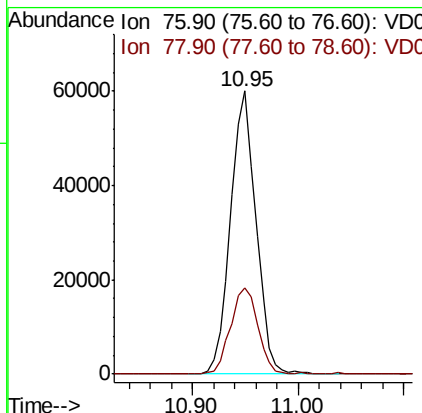
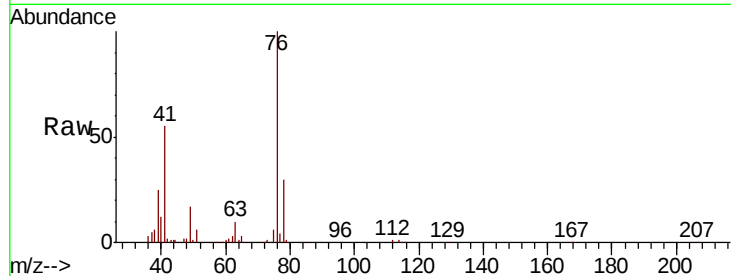




#57
 1,3-Dichloropropane
 Concen: 20.518 ug/l
 RT: 10.95 min Scan# 1535
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

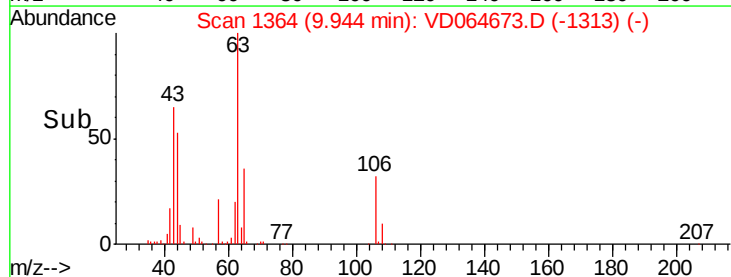
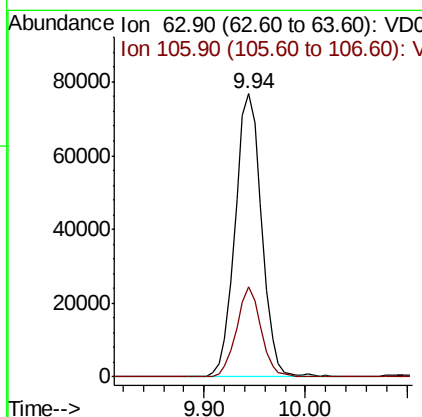
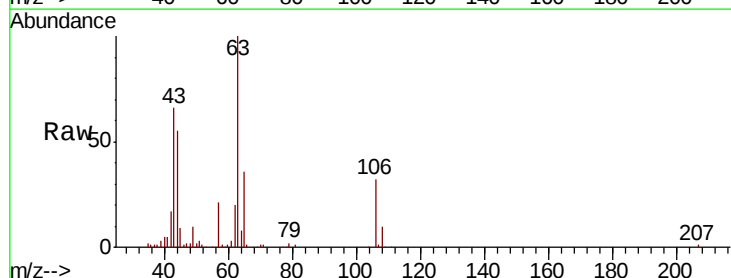
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

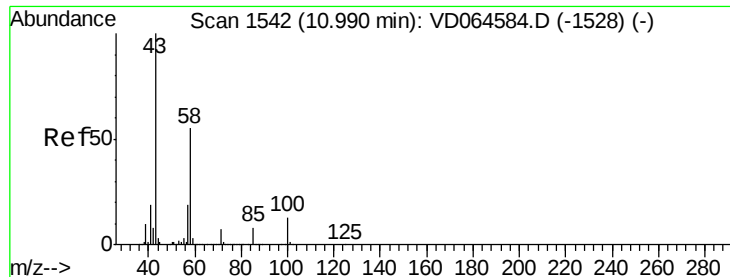
Tot Ion: 76 Resp: 100018
 Ion Ratio Lower Upper
 76 100
 78 32.7 26.2 39.4



#58
 2-Chloroethyl Vinyl ether
 Concen: 103.476 ug/l
 RT: 9.94 min Scan# 1364
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Tgt Ion: 63 Resp: 139391
 Ion Ratio Lower Upper
 63 100
 106 29.4 23.8 35.8

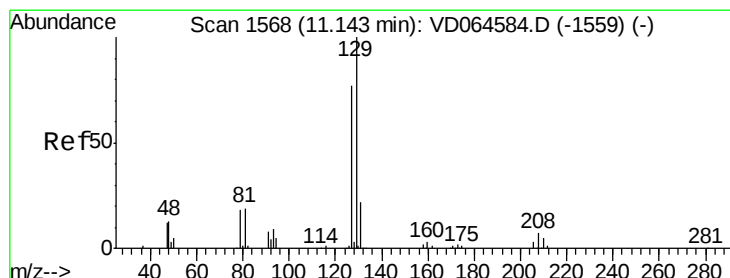
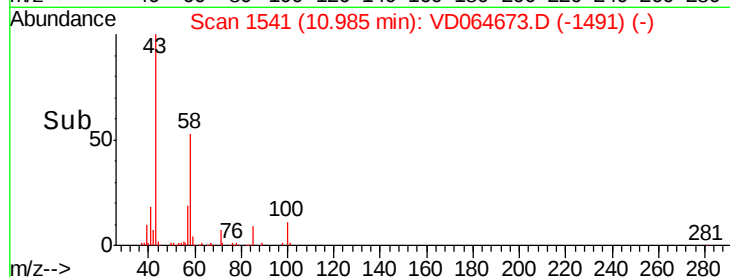
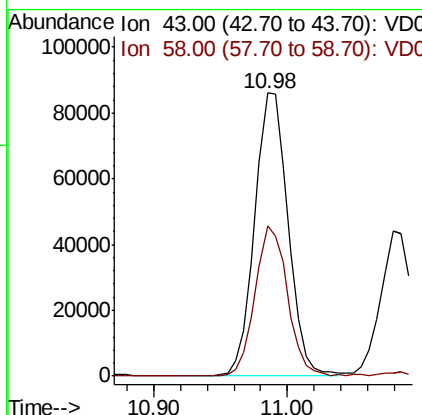
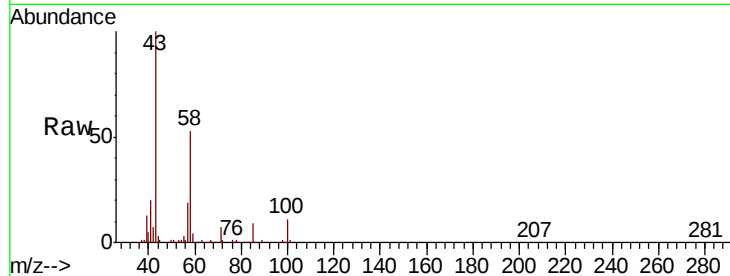




#59
2-Hexanone
Concen: 98.128 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

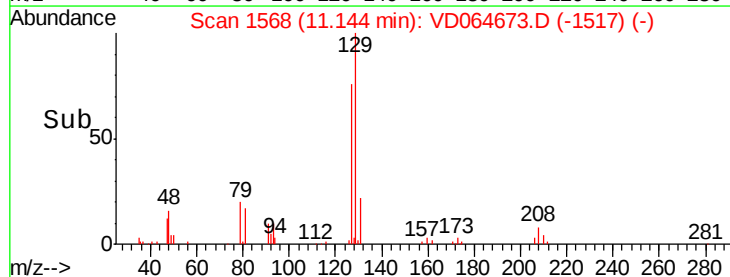
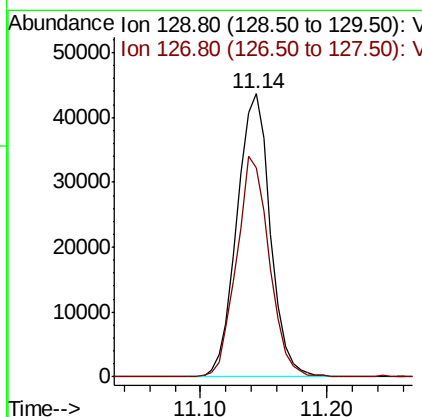
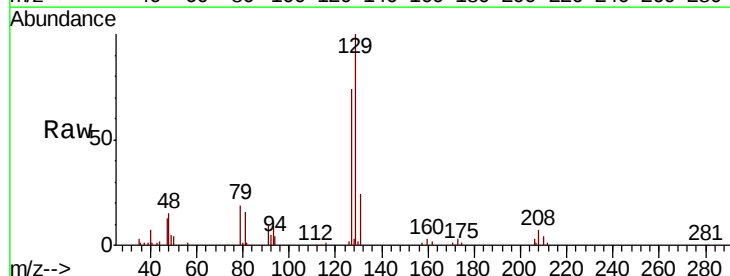
Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

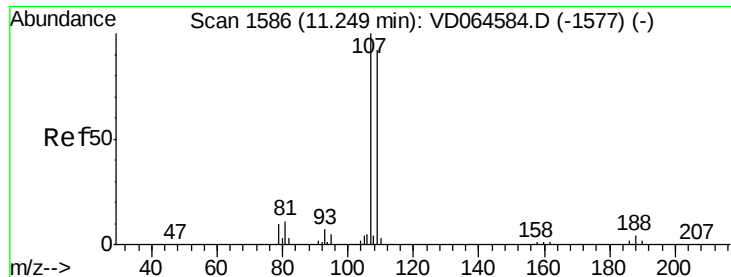
Tot Ion: 43 Resp: 148807
Ion Ratio Lower Upper
43 100
58 51.5 26.4 79.0



#60
Dibromochloromethane
Concen: 20.394 ug/l
RT: 11.14 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion: 129 Resp: 79844
Ion Ratio Lower Upper
129 100
127 76.4 38.4 115.2

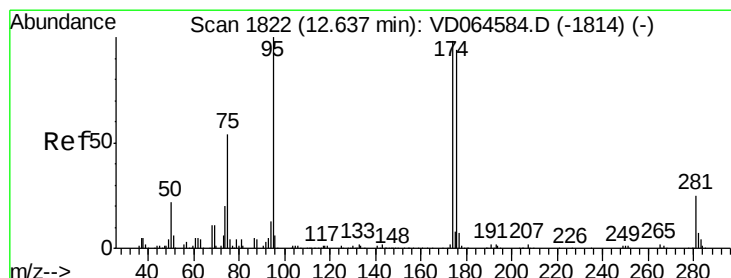
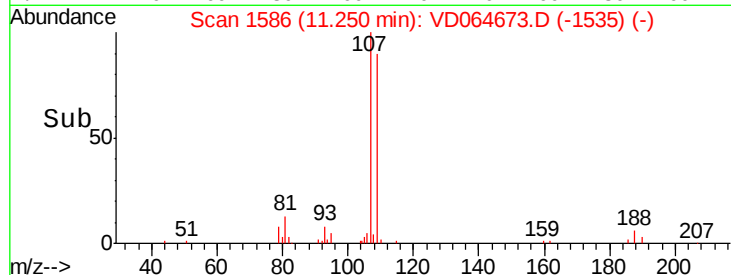
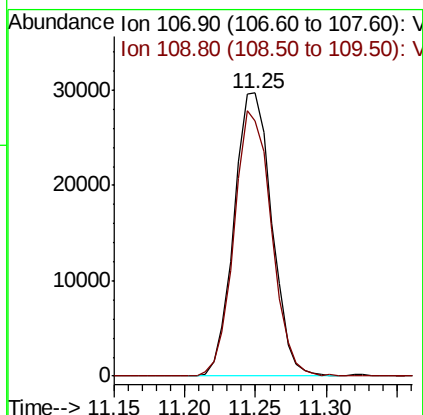
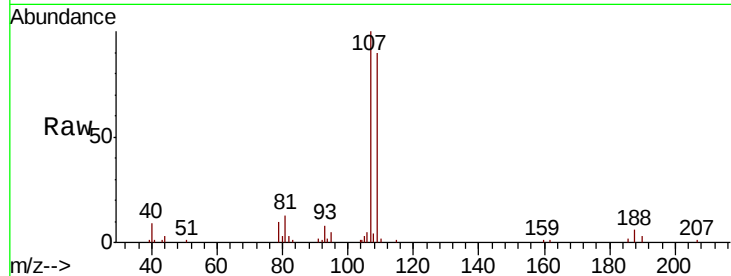




#61
 1,2-Dibromoethane
 Concen: 19.936 ug/l
 RT: 11.25 min Scan# 1586
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

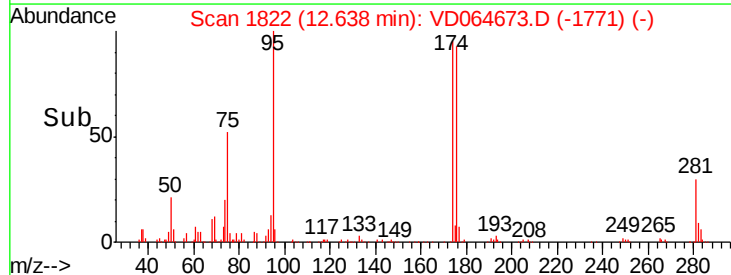
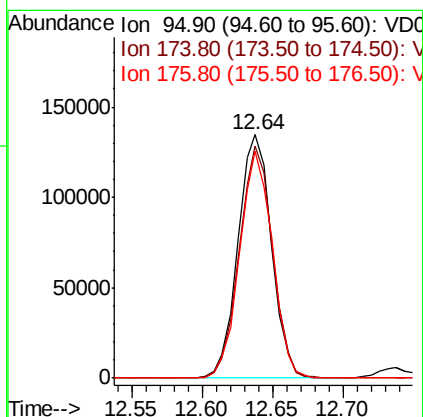
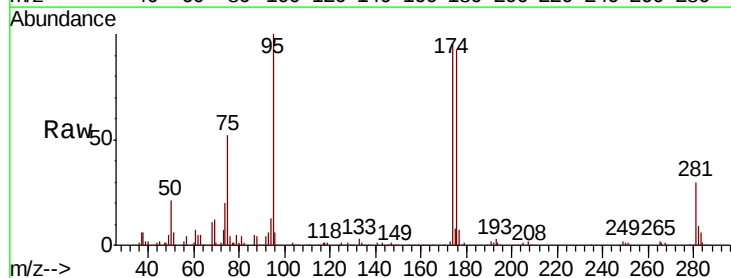
Instrument :
 MSVOA_D
 ClientSampleId :
 VD1230SBS01

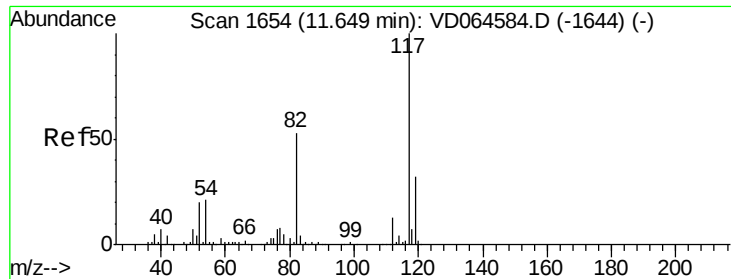
Tot Ion:107 Resp: 55668
 Ion Ratio Lower Upper
 107 100
 109 92.7 75.6 113.4



#62
 4-Bromofluorobenzene
 Concen: 49.949 ug/l
 RT: 12.64 min Scan# 1822
 Delta R.T. 0.00 min
 Lab File: VD064673.D
 Acq: 30 Dec 2019 12:46

Tgt Ion: 95 Resp: 222901
 Ion Ratio Lower Upper
 95 100
 174 94.5 0.0 193.2
 176 91.7 0.0 184.2

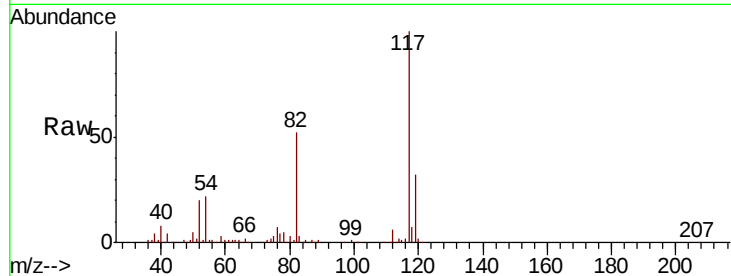




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.9	42.2	63.4
119	32.2	26.0	39.0

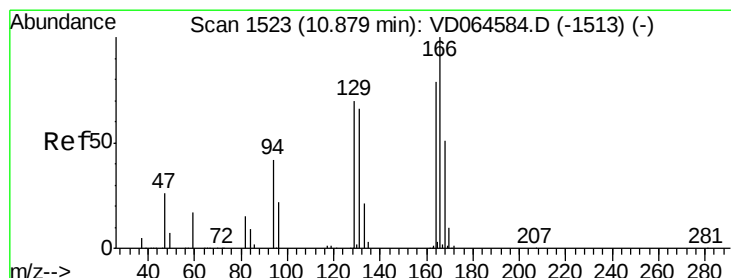
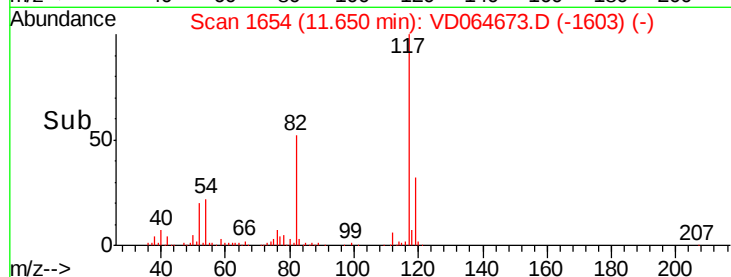
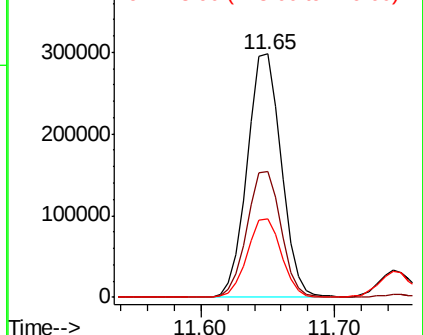


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 21.266 ug/l
RT: 10.87 min Scan# 1522
Delta R.T. -0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.9	101.3	151.9
129	88.8	70.5	105.7
131	85.5	66.6	99.8

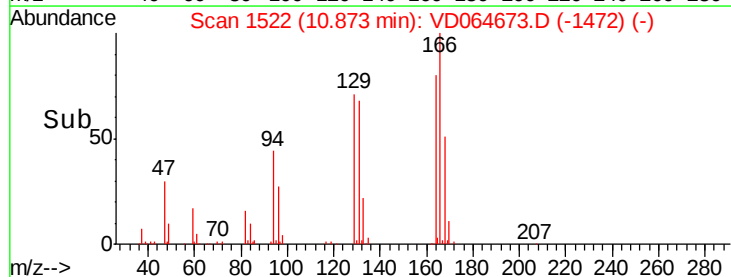
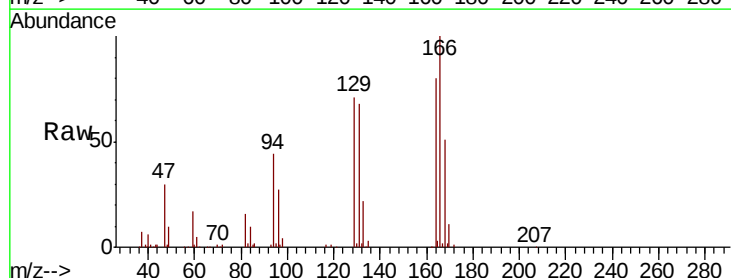
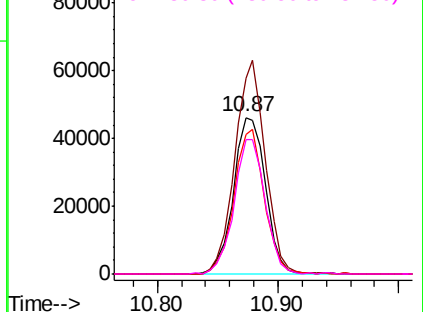
Abundance

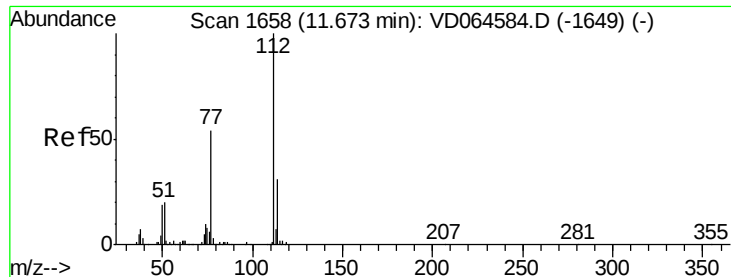
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V

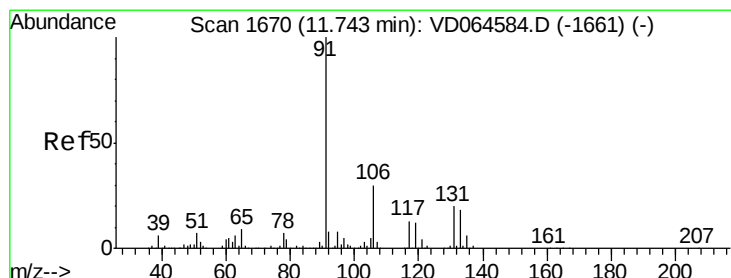
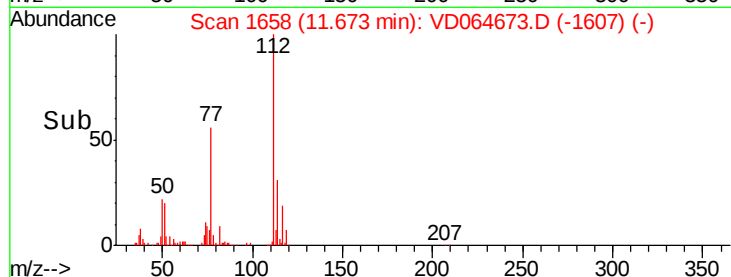
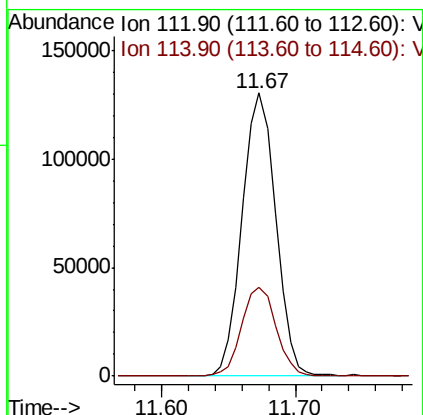
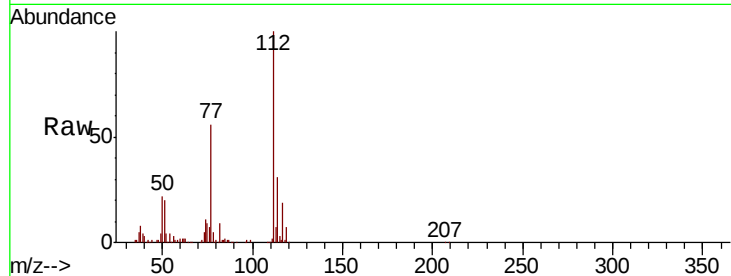




#65
Chlorobenzene
Concen: 20.849 ug/l
RT: 11.67 min Scan# 1658
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

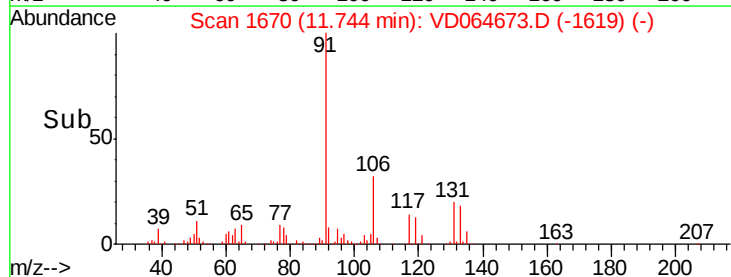
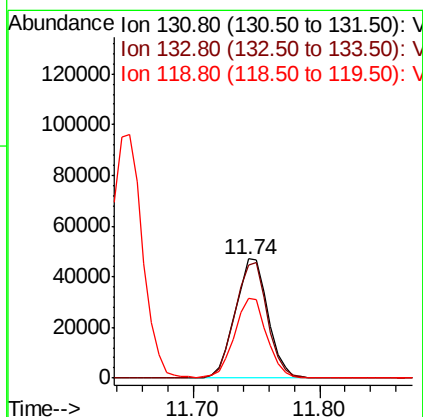
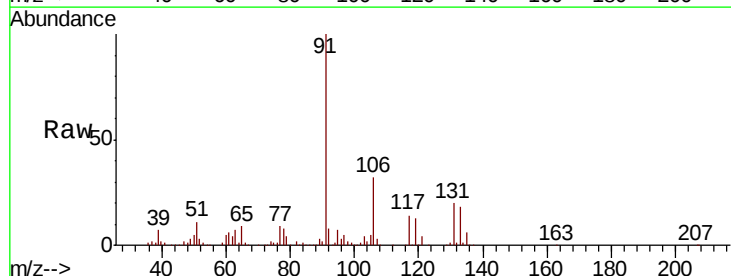
Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

Tot Ion:112 Resp: 227350
Ion Ratio Lower Upper
112 100
114 31.4 24.8 37.2



#66
1,1,1,2-Tetrachloroethane
Concen: 20.499 ug/l
RT: 11.74 min Scan# 1670
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion:131 Resp: 84271
Ion Ratio Lower Upper
131 100
133 96.4 48.3 144.8
119 65.8 32.1 96.3





#67

Ethyl Benzene

Concen: 20.820 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

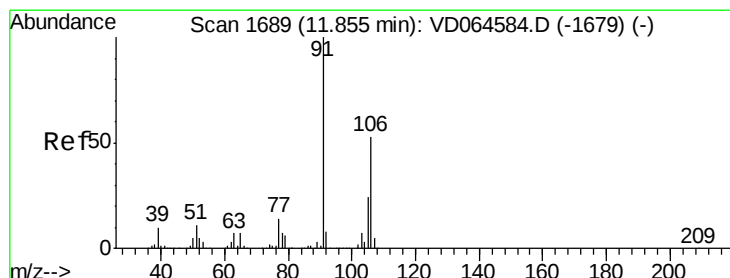
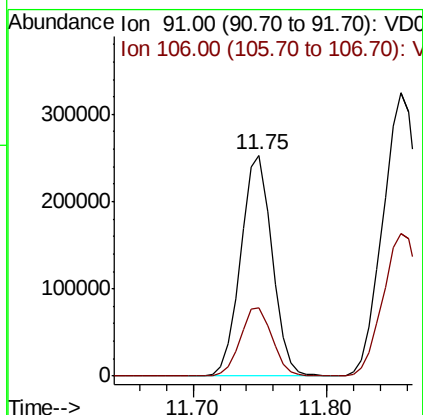
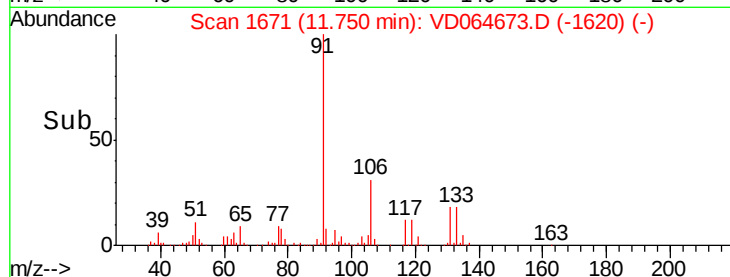
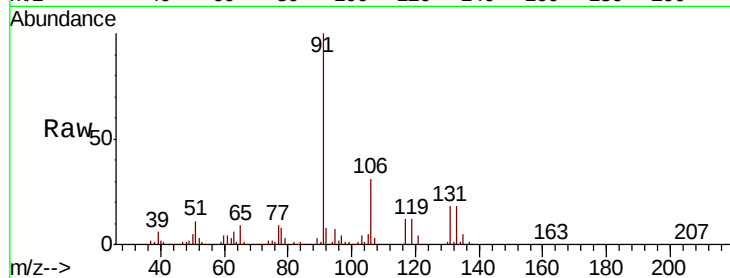
VD1230SBS01

Tot Ion: 91 Resp: 412086

Ion Ratio Lower Upper

91 100

106 30.8 24.6 36.8



#68

m/p-Xylenes

Concen: 41.735 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VD064673.D

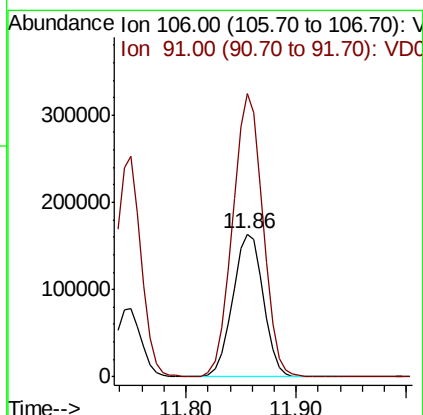
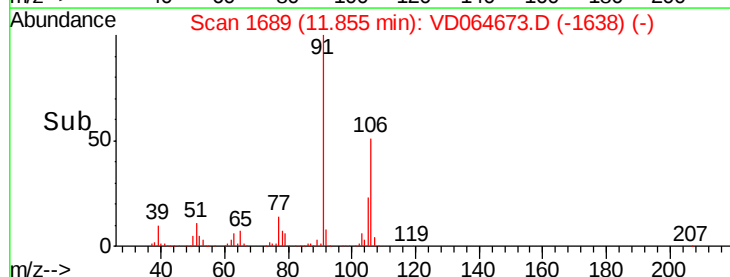
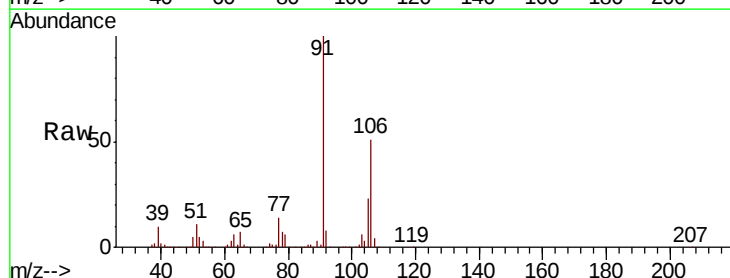
Acq: 30 Dec 2019 12:46

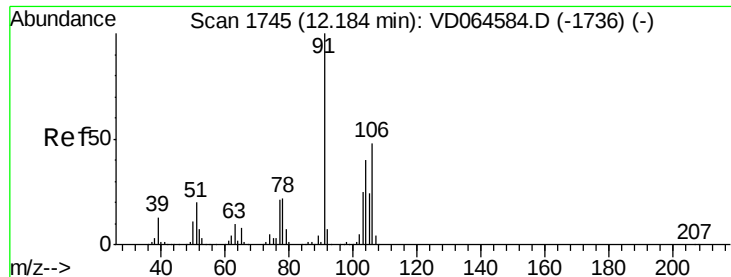
Tgt Ion: 106 Resp: 318835

Ion Ratio Lower Upper

106 100

91 195.9 156.3 234.5

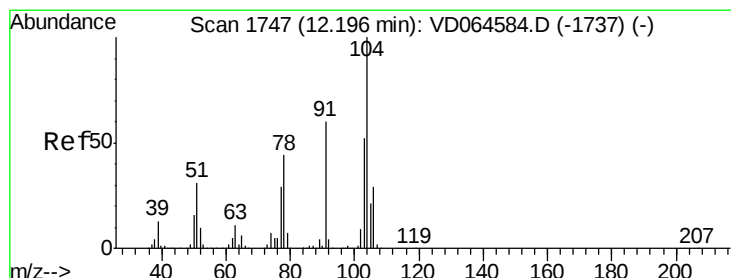
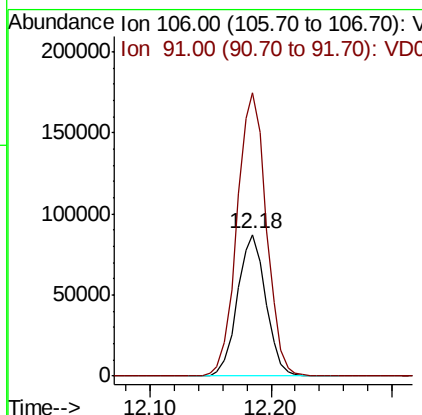
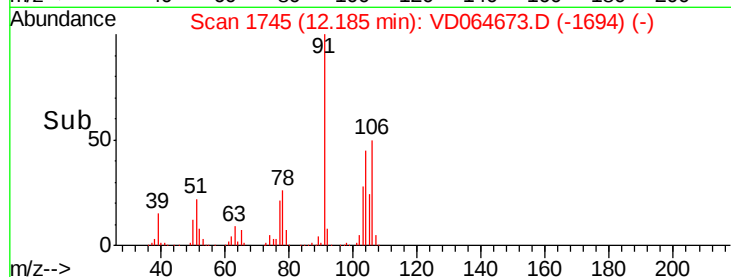
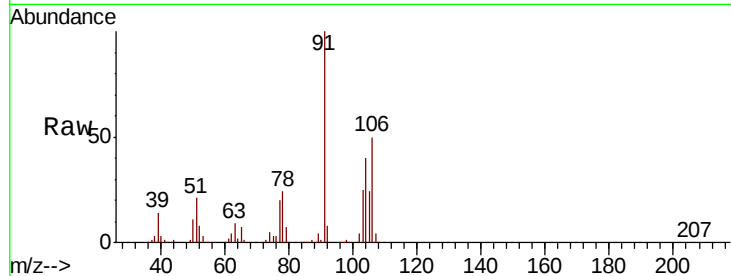




#69
o-Xylene
Concen: 20.744 ug/l
RT: 12.18 min Scan# 1745
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

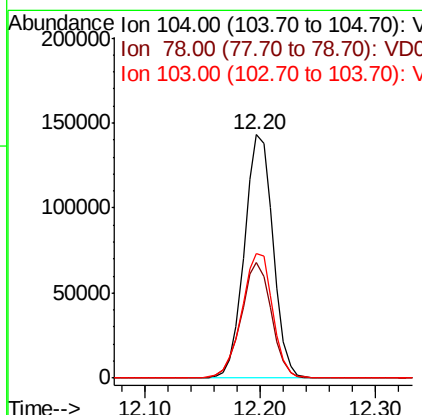
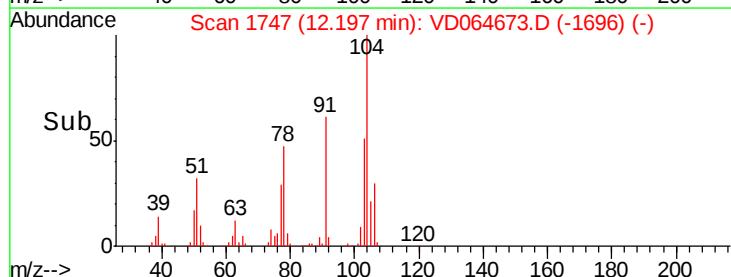
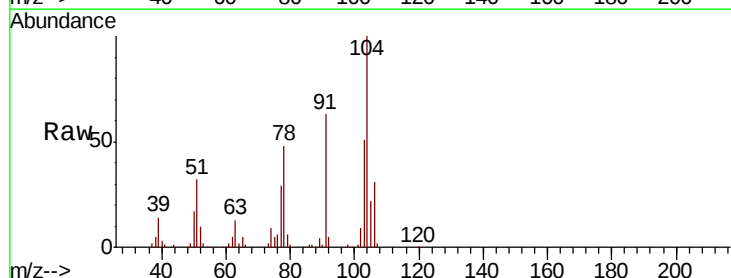
Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

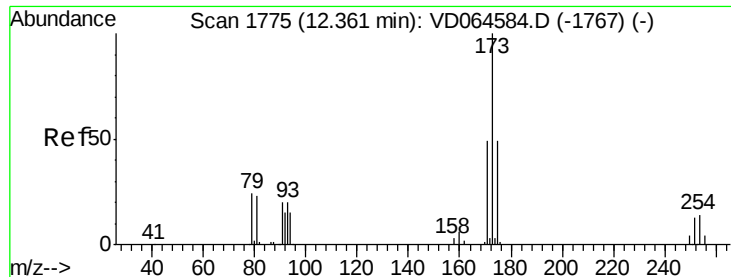
Tot Ion:106 Resp: 143141
Ion Ratio Lower Upper
106 100
91 206.8 104.8 314.4



#70
Styrene
Concen: 20.351 ug/l
RT: 12.20 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion:104 Resp: 246490
Ion Ratio Lower Upper
104 100
78 50.1 38.2 57.2
103 55.2 44.6 67.0

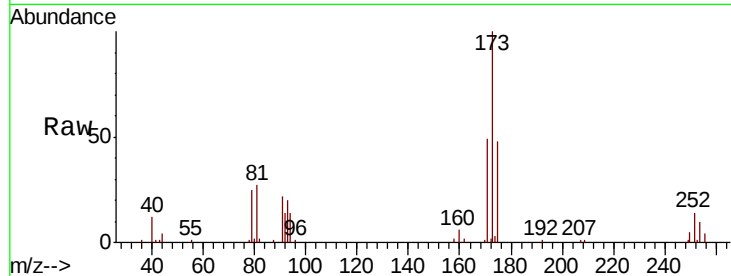




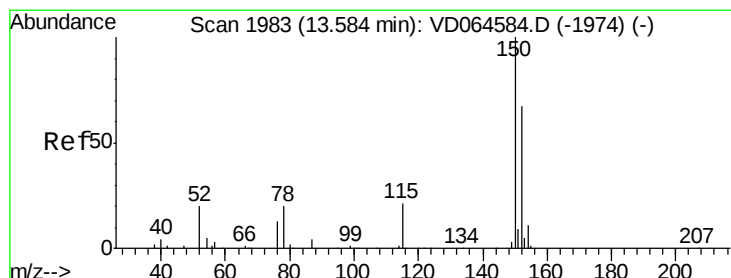
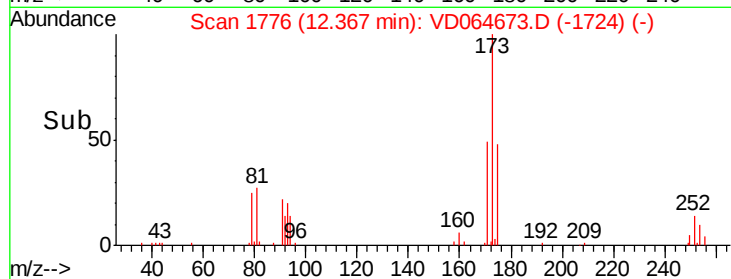
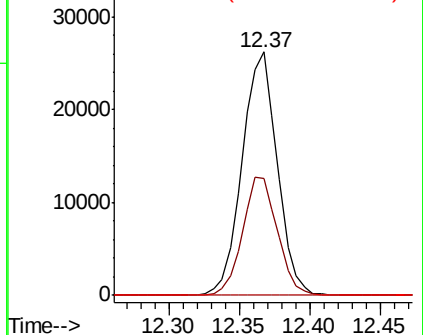
#71
Bromoform
Concen: 19.432 ug/l
RT: 12.37 min Scan# 1776
Delta R.T. 0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

Tot Ion:173 Resp: 45555
Ion Ratio Lower Upper
173 100
175 48.2 24.6 73.8
254 0.0 0.1 0.1#

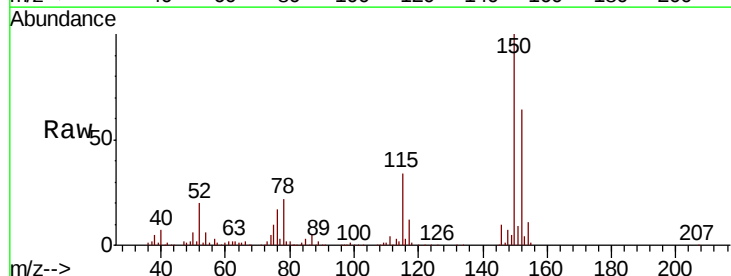


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

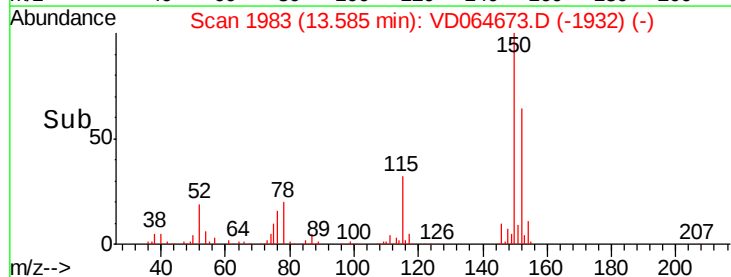
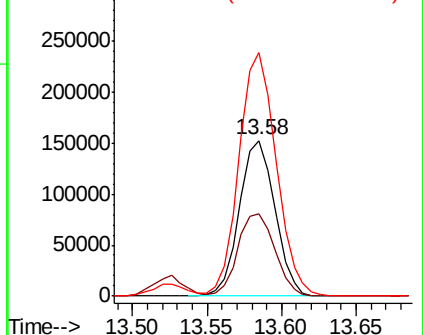


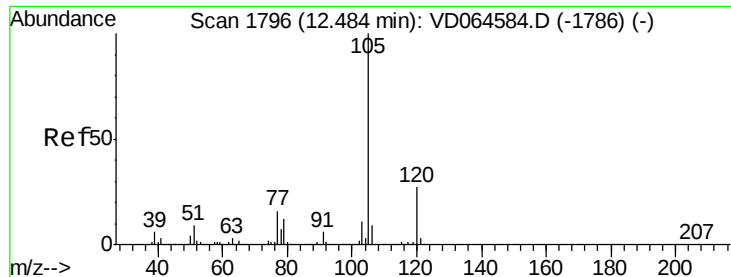
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion:152 Resp: 251799
Ion Ratio Lower Upper
152 100
115 55.2 27.8 83.4
150 164.4 0.0 351.4



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: 22.066 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

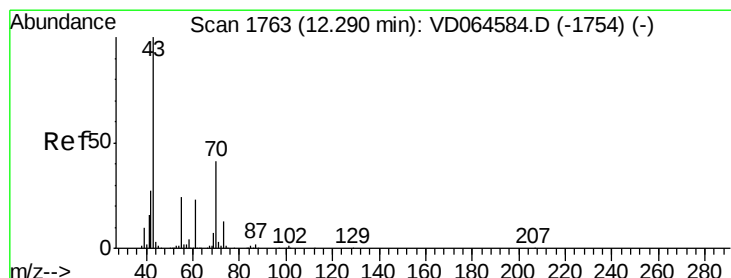
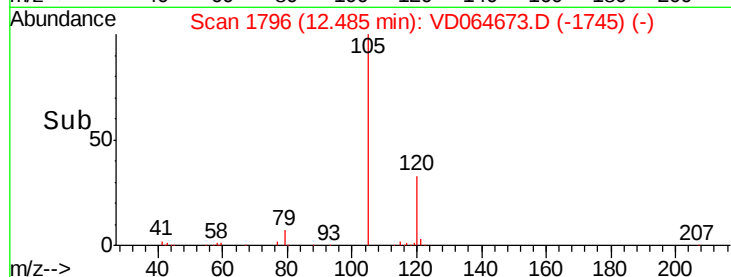
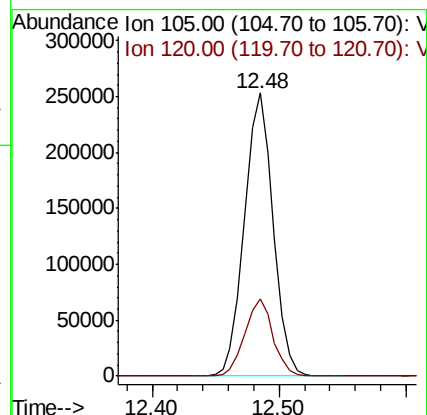
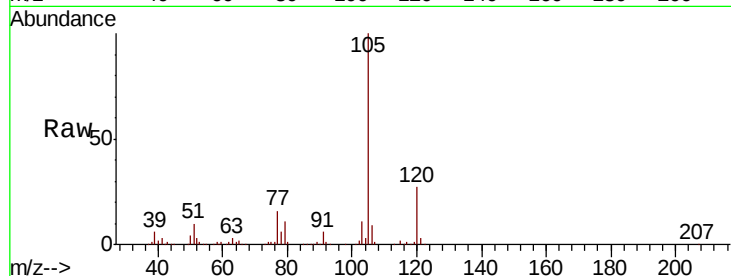
VD1230SBS01

Tot Ion:105 Resp: 397060

Ion Ratio Lower Upper

105 100

120 26.8 13.5 40.5



#74

N-ethyl acetate

Concen: 20.339 ug/l

RT: 12.29 min Scan# 1763

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Tgt Ion: 43 Resp: 78232

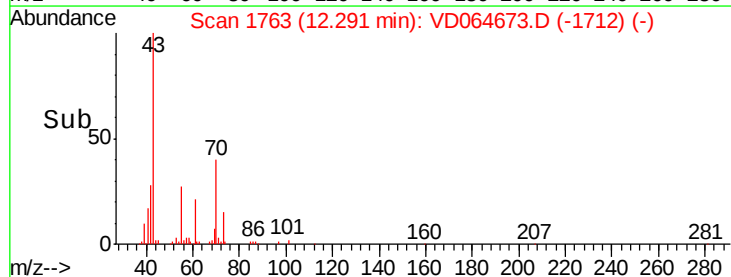
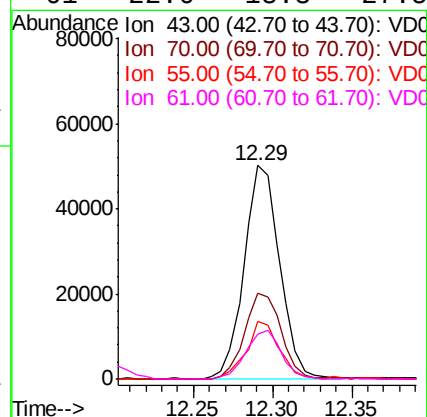
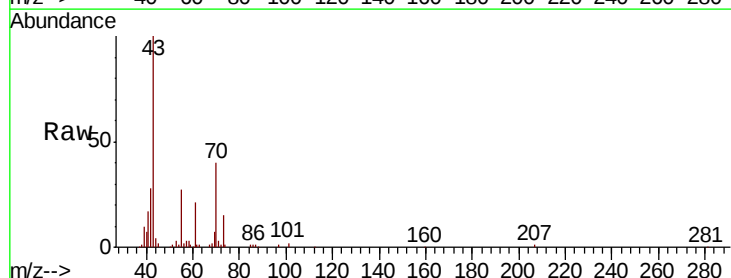
Ion Ratio Lower Upper

43 100

70 41.5 33.4 50.0

55 25.0 19.4 29.0

61 22.6 18.3 27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.646 ug/l

RT: 12.74 min Scan# 1839

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

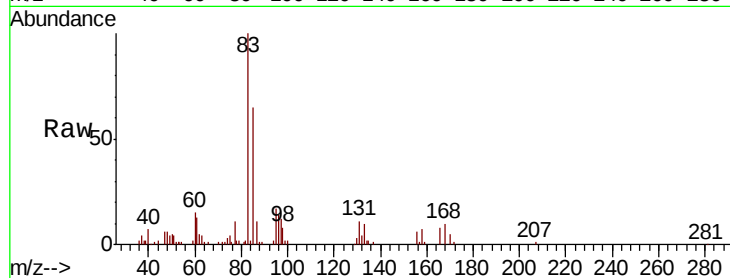
Tot Ion: 83 Resp: 61188

Ion Ratio Lower Upper

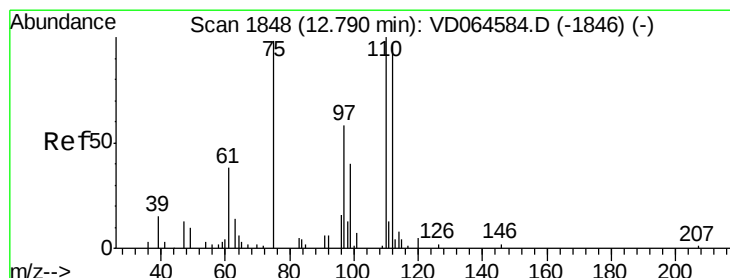
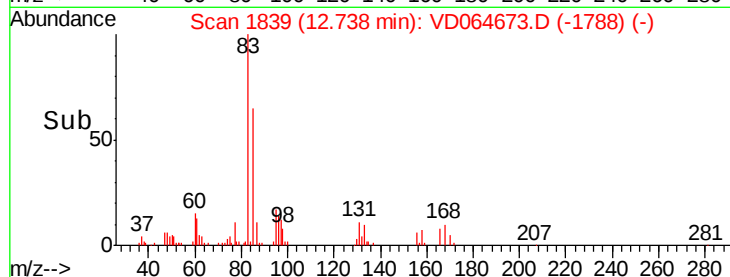
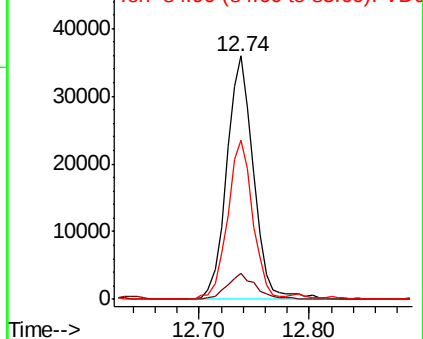
83 100

131 11.4 5.8 17.4

85 61.7 32.3 96.9



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: 40.645 ug/l

RT: 12.79 min Scan# 1848

Delta R.T. 0.00 min

Lab File: VD064673.D

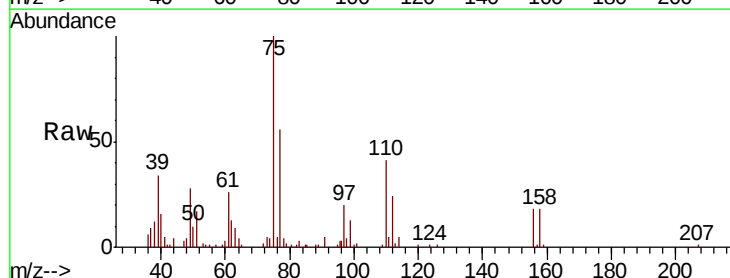
Acq: 30 Dec 2019 12:46

Tgt Ion: 75 Resp: 80816

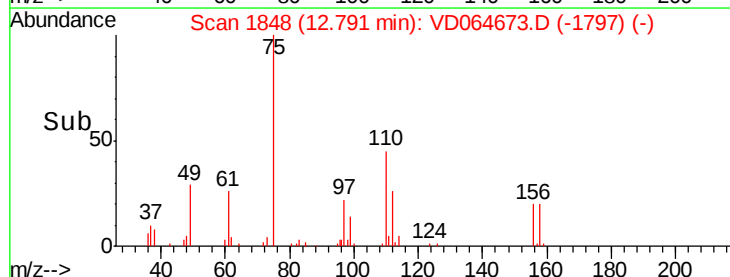
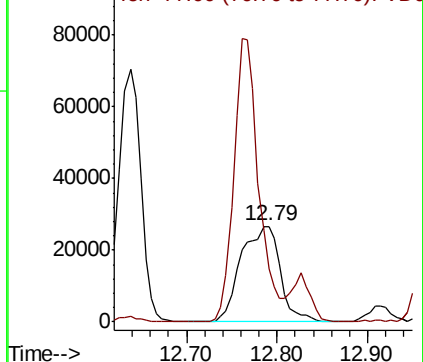
Ion Ratio Lower Upper

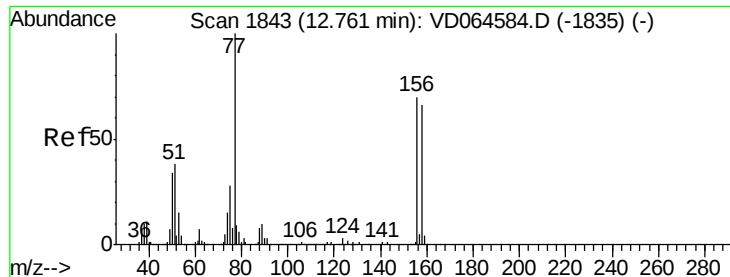
75 100

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: 21.524 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

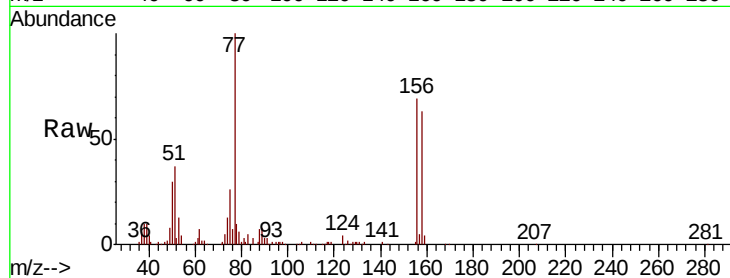
Tot Ion:156 Resp: 95168

Ion Ratio Lower Upper

156 100

77 157.8 80.9 242.7

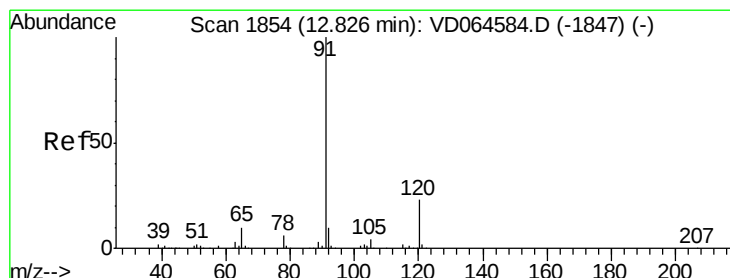
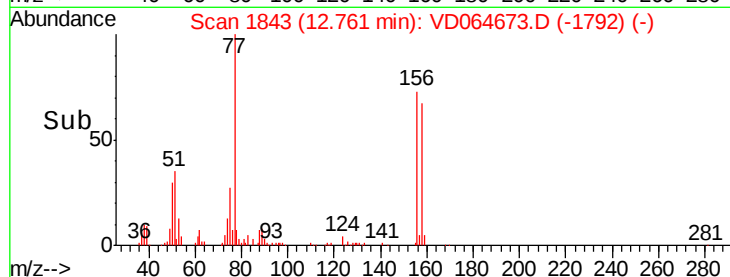
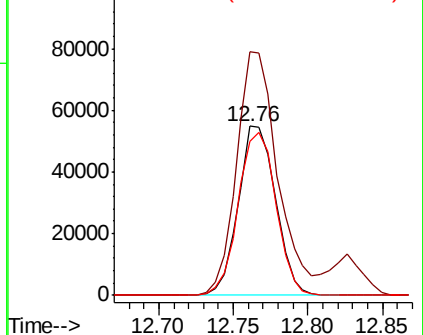
158 97.5 48.0 144.2



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: 22.244 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD064673.D

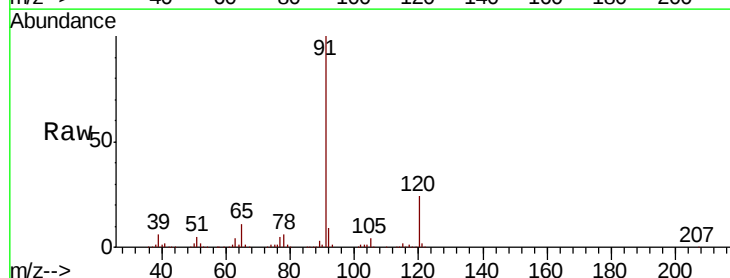
Acq: 30 Dec 2019 12:46

Tgt Ion: 91 Resp: 466956

Ion Ratio Lower Upper

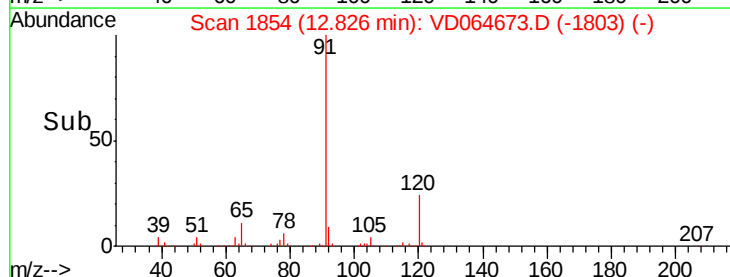
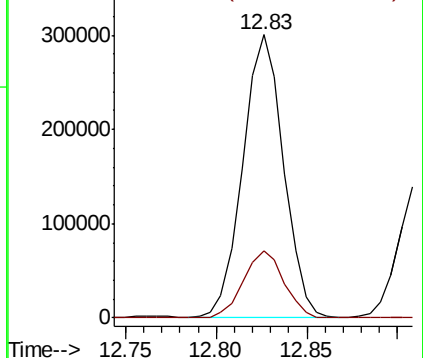
91 100

120 23.5 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.090 ug/l

RT: 12.91 min Scan# 1869

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

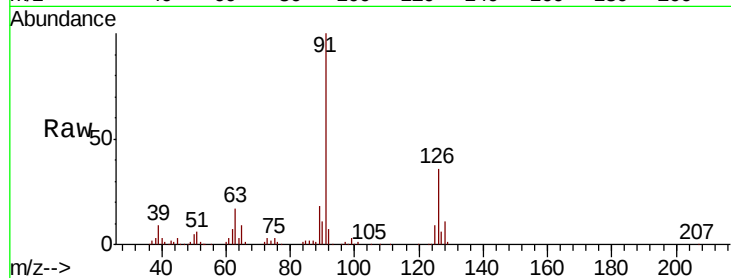
VD1230SBS01

Tot Ion: 91 Resp: 254746

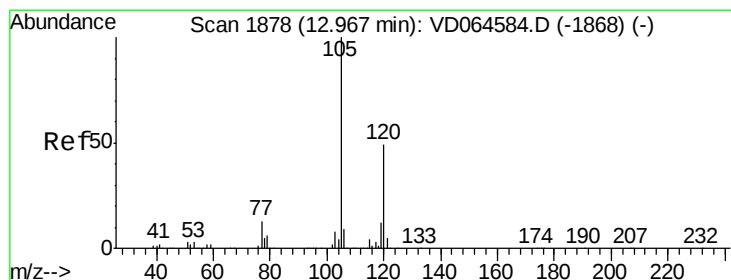
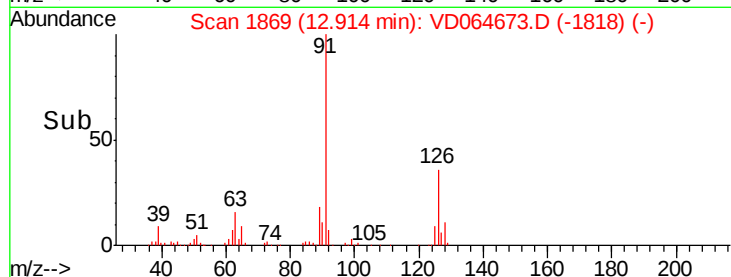
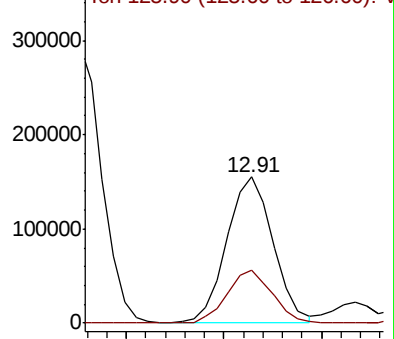
Ion Ratio Lower Upper

91 100

126 35.4 17.8 53.5



Abundance Ion 91.00 (90.70 to 91.70): V



#80

1,3,5-Trimethylbenzene

Concen: 22.018 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD064673.D

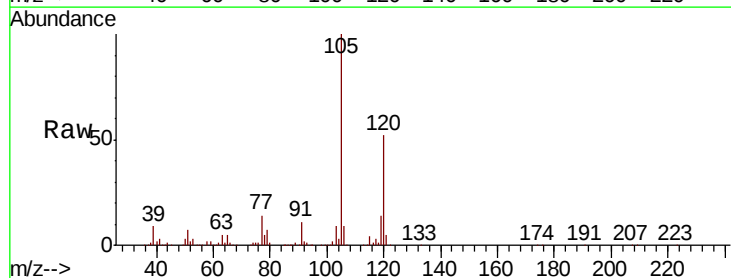
Acq: 30 Dec 2019 12:46

Tgt Ion:105 Resp: 325450

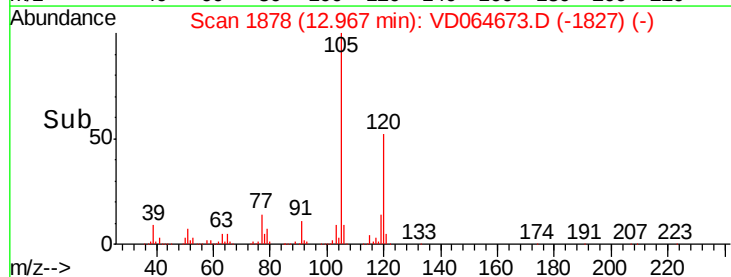
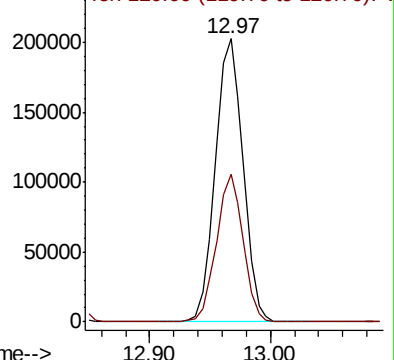
Ion Ratio Lower Upper

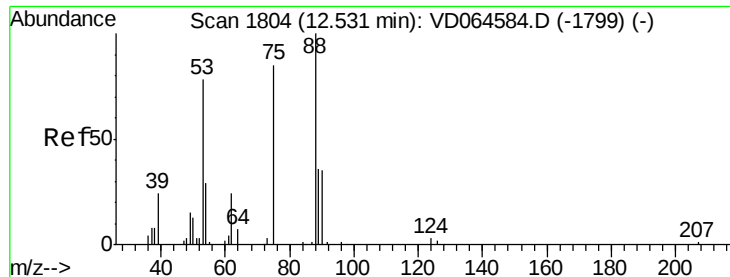
105 100

120 50.0 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 20.432 ug/l

RT: 12.53 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

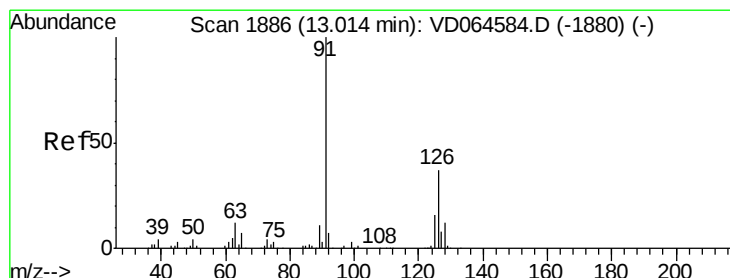
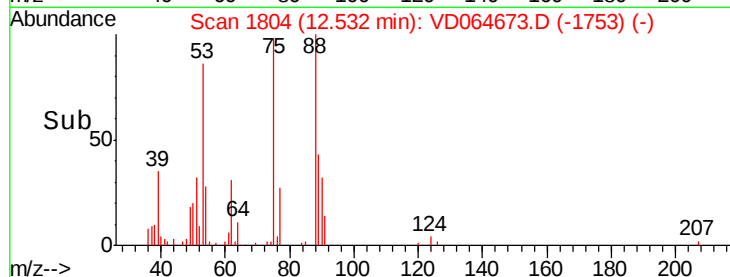
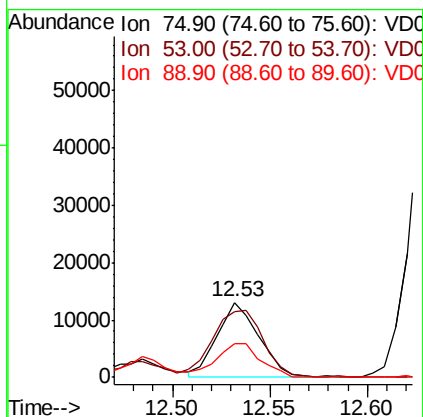
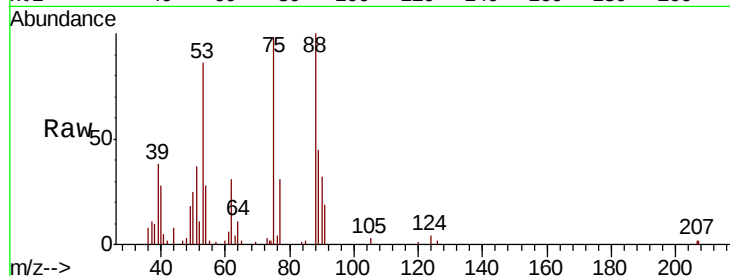
Tot Ion: 75 Resp: 19425

Ion Ratio Lower Upper

75 100

53 108.4 78.8 118.2

89 50.0 38.3 57.5



#82

4-Chlorotoluene

Concen: 21.901 ug/l

RT: 13.01 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VD064673.D

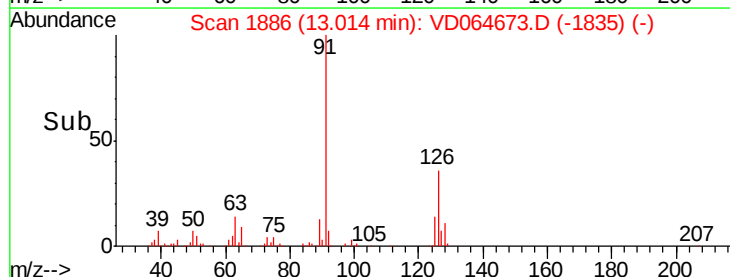
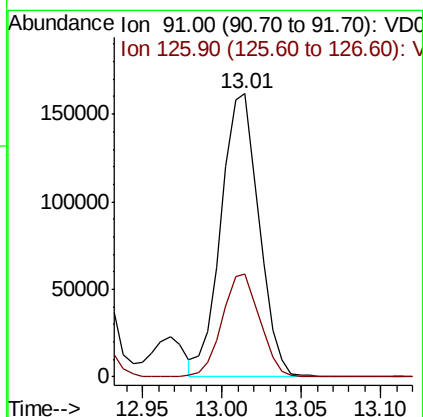
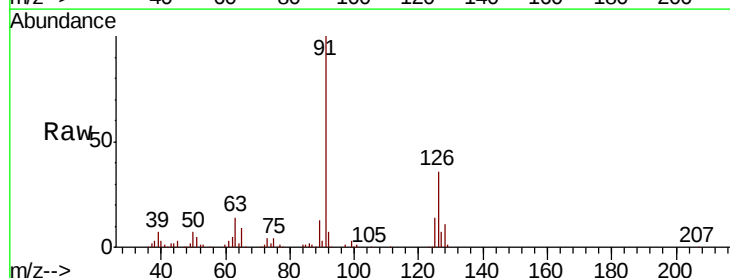
Acq: 30 Dec 2019 12:46

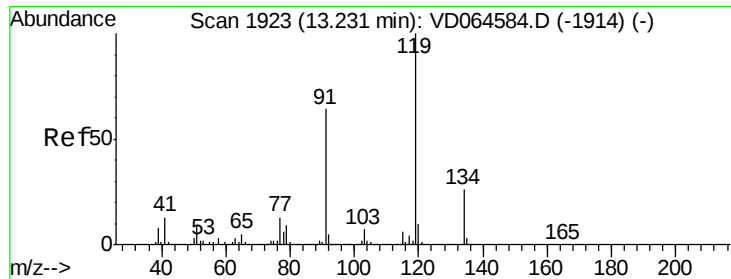
Tgt Ion: 91 Resp: 268778

Ion Ratio Lower Upper

91 100

126 36.1 17.8 53.5

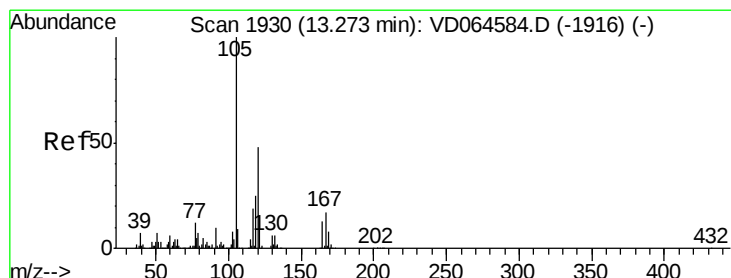
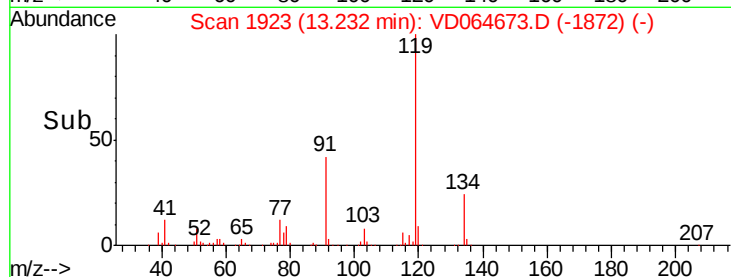
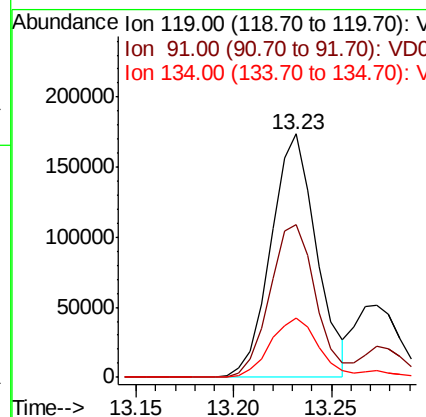
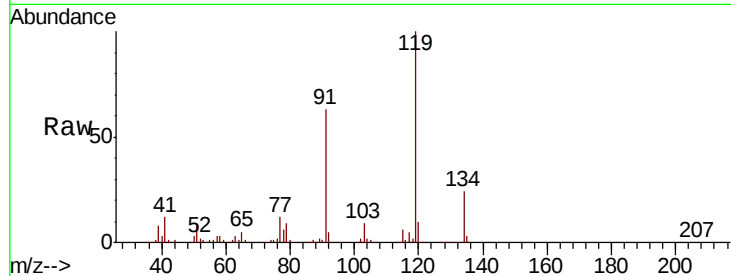




#83
tert-Butylbenzene
Concen: 21.827 ug/l
RT: 13.23 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

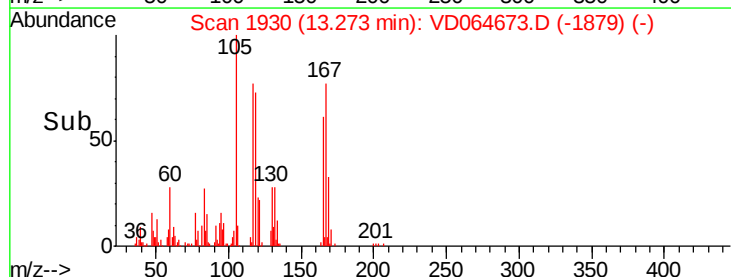
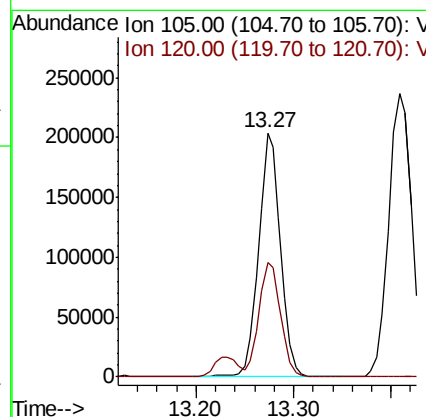
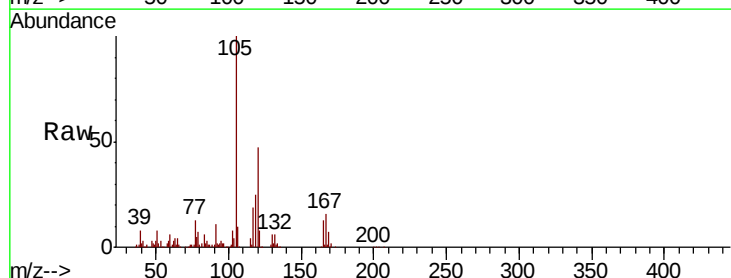
Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

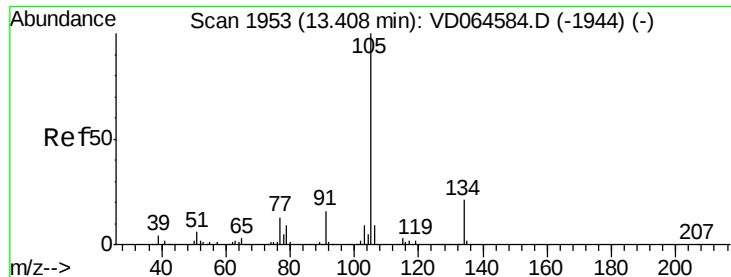
Tot Ion:119 Resp: 280123
Ion Ratio Lower Upper
119 100
91 62.9 30.8 92.4
134 25.5 12.8 38.3



#84
1,2,4-Trimethylbenzene
Concen: 21.743 ug/l
RT: 13.27 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion:105 Resp: 320086
Ion Ratio Lower Upper
105 100
120 46.9 23.8 71.2





#85

sec-Butylbenzene

Concen: 22.094 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

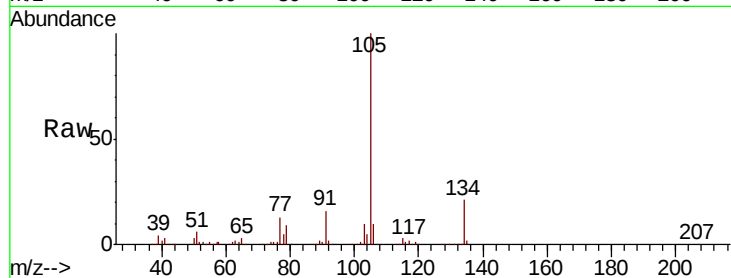
VD1230SBS01

Tot Ion:105 Resp: 388730

Ion Ratio Lower Upper

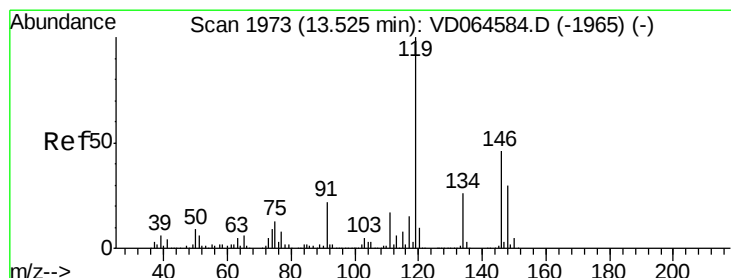
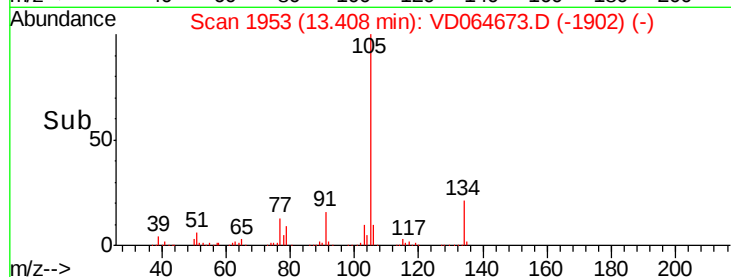
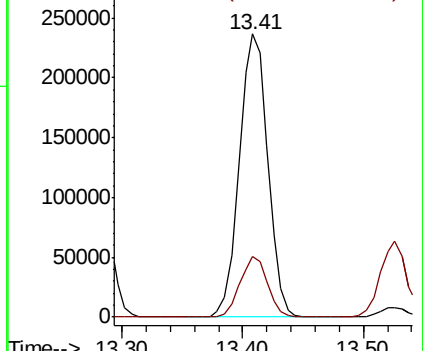
105 100

134 20.7 10.6 31.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 21.752 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

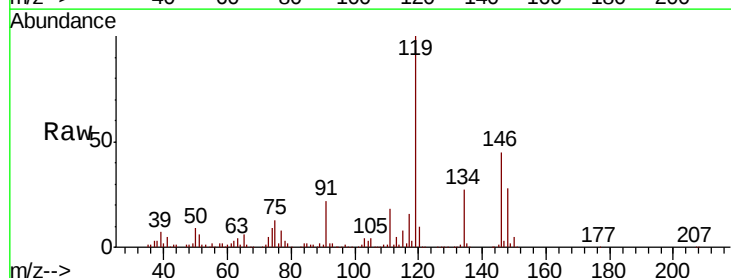
Tgt Ion:119 Resp: 365955

Ion Ratio Lower Upper

119 100

134 26.3 13.4 40.1

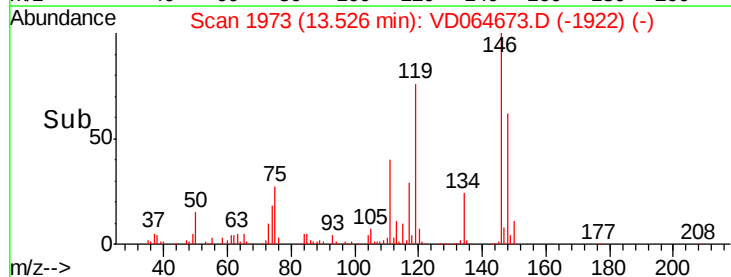
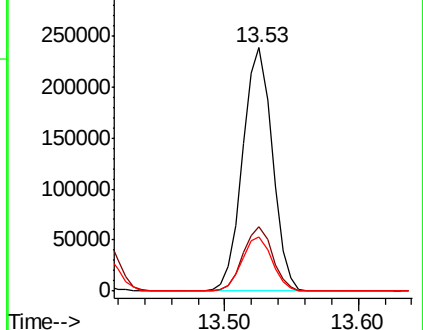
91 22.6 11.2 33.6

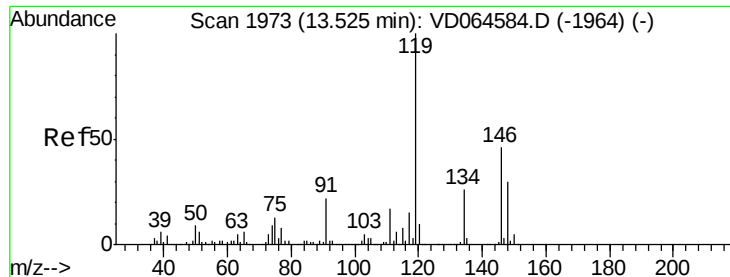


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 21.154 ug/l

RT: 13.53 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

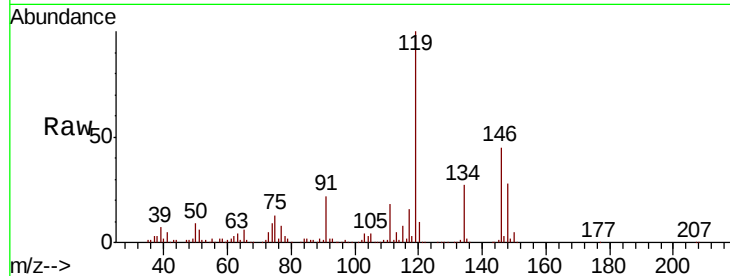
Tot Ion:146 Resp: 178302

Ion Ratio Lower Upper

146 100

111 37.8 18.8 56.4

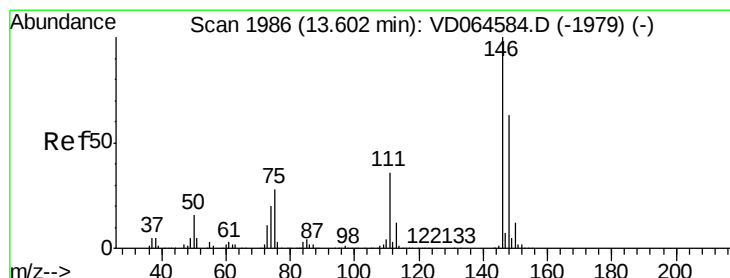
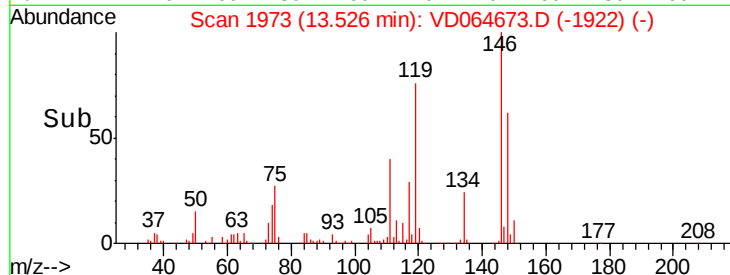
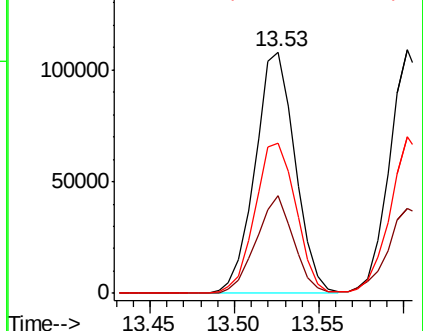
148 64.0 32.5 97.5



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 21.345 ug/l

RT: 13.60 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

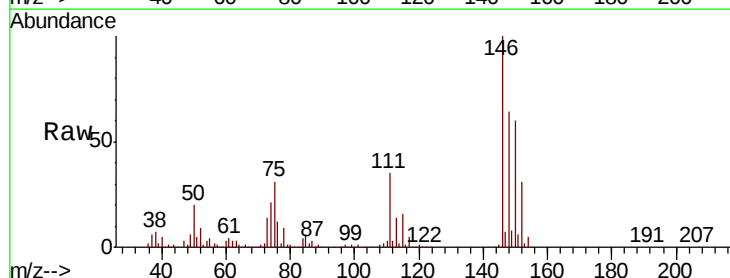
Tgt Ion:146 Resp: 176743

Ion Ratio Lower Upper

146 100

111 37.2 18.1 54.1

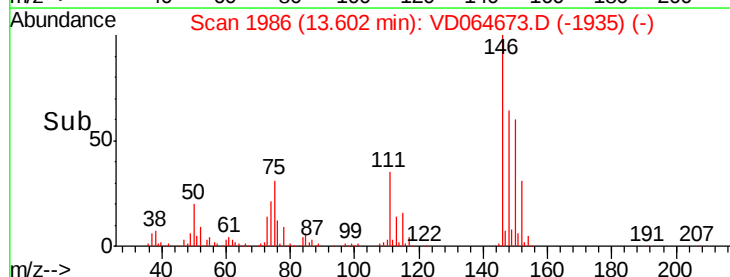
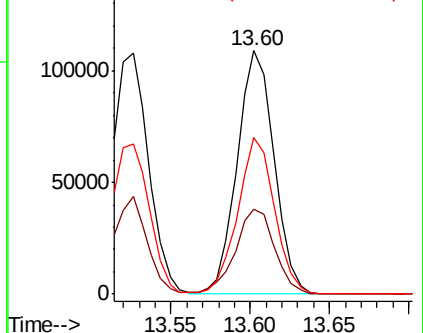
148 64.0 32.3 96.9

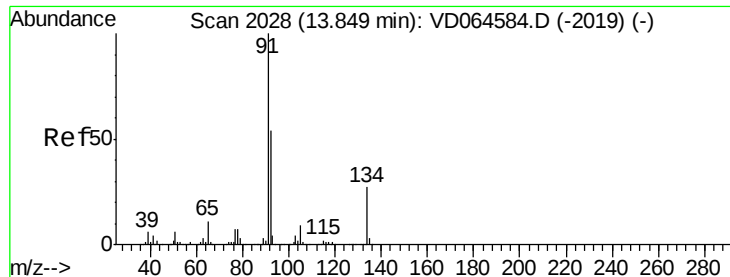


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

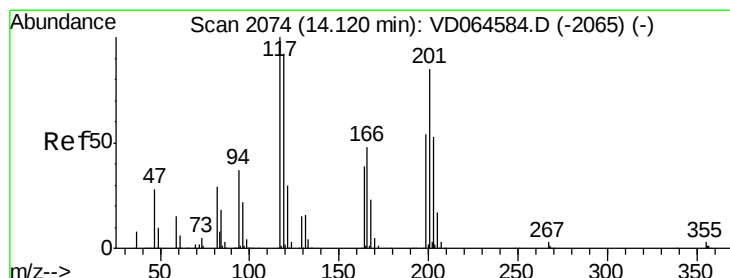
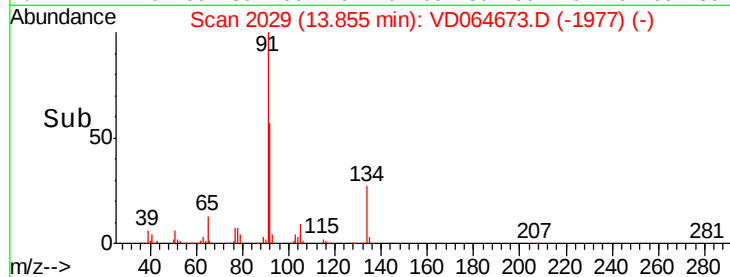
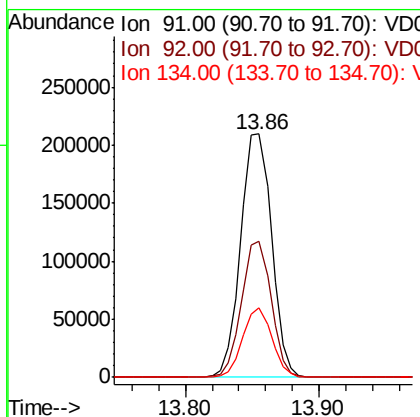
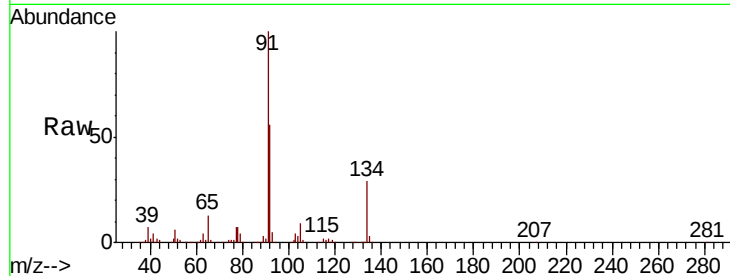




#89
n-Butylbenzene
Concen: 22.208 ug/l
RT: 13.86 min Scan# 2029
Delta R.T. 0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

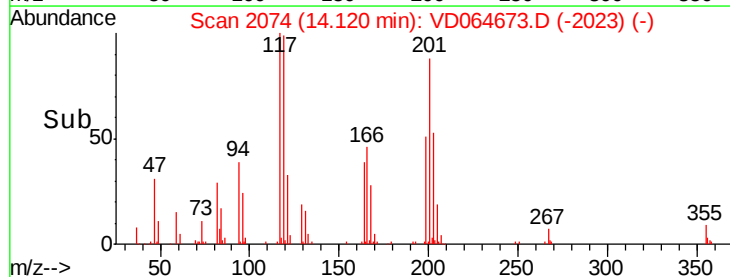
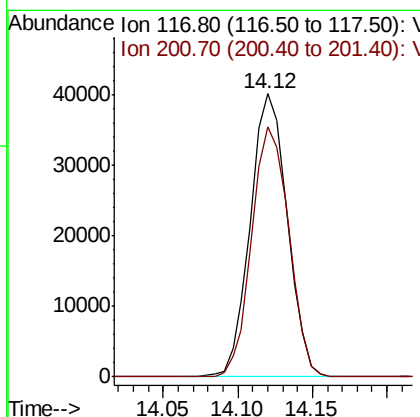
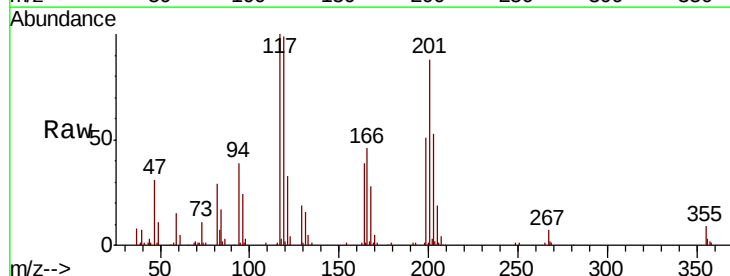
Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

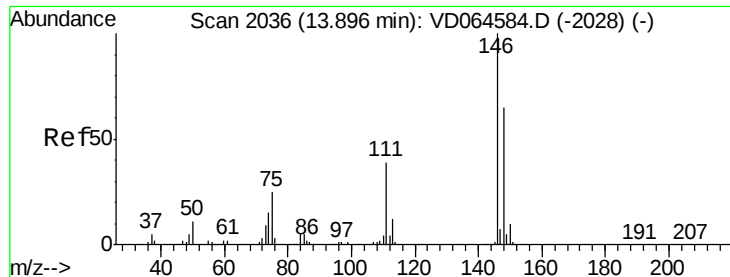
Tot Ion: 91 Resp: 336461
Ion Ratio Lower Upper
91 100
92 53.8 26.8 80.4
134 27.0 14.0 41.9



#90
Hexachloroethane
Concen: 21.439 ug/l
RT: 14.12 min Scan# 2074
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion: 117 Resp: 68897
Ion Ratio Lower Upper
117 100
201 88.3 44.0 131.8





#91

1,2-Dichlorobenzene

Concen: 21.042 ug/l

RT: 13.90 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

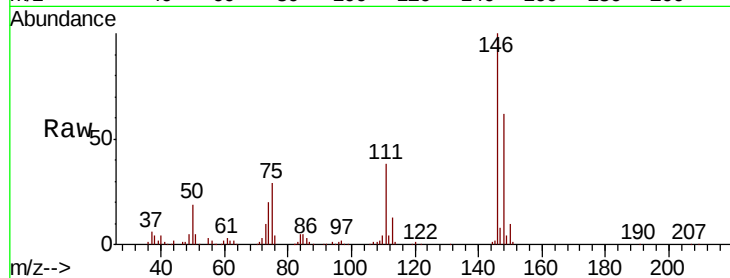
Tot Ion:146 Resp: 151233

Ion Ratio Lower Upper

146 100

111 38.7 19.3 57.9

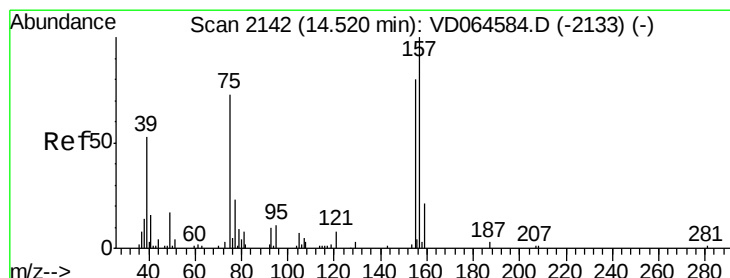
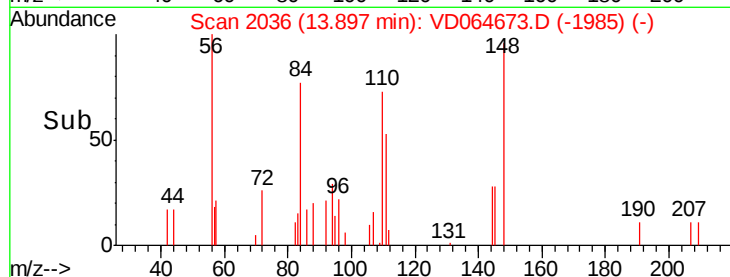
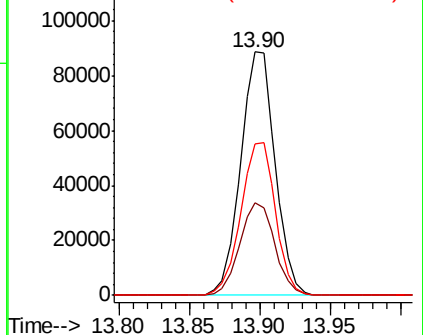
148 63.1 31.9 95.5



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: 21.371 ug/l

RT: 14.51 min Scan# 2141

Delta R.T. -0.01 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

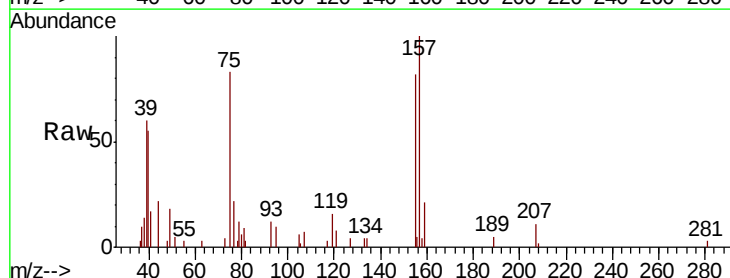
Tgt Ion: 75 Resp: 9793

Ion Ratio Lower Upper

75 100

155 88.4 48.0 144.0

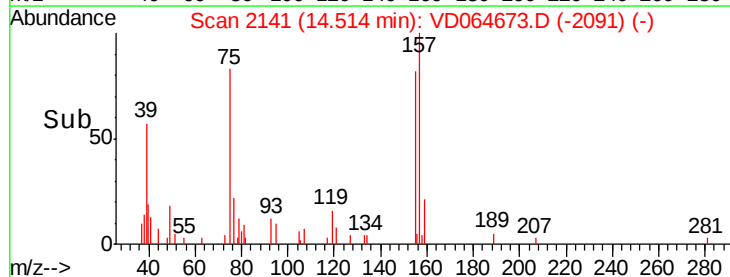
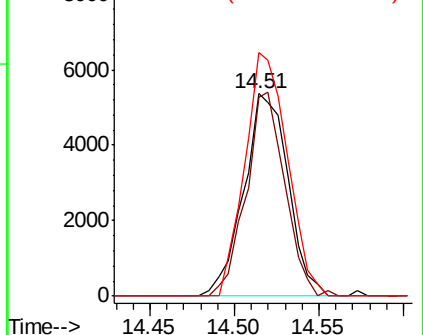
157 115.8 64.1 192.3

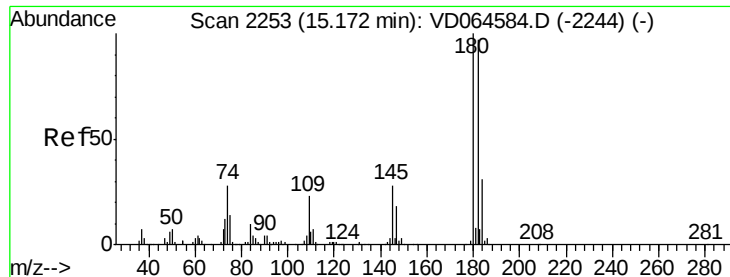


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

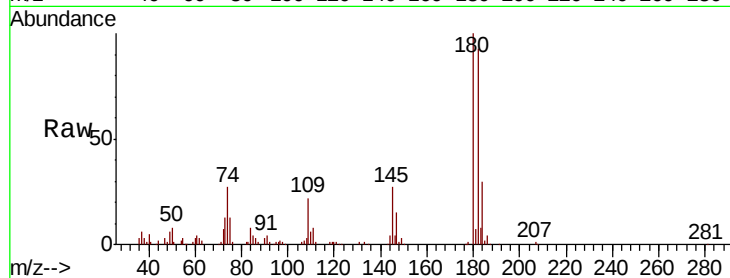




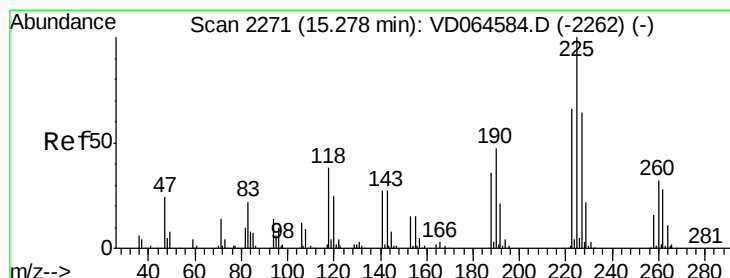
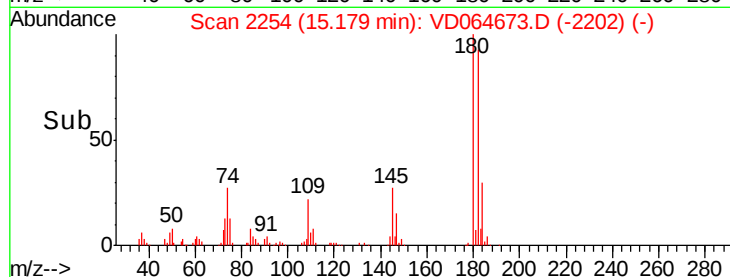
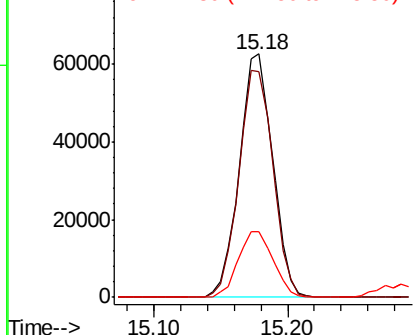
#93
1,2,4-Trichlorobenzene
Concen: 20.414 ug/l
RT: 15.18 min Scan# 2254
Delta R.T. 0.01 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Instrument :
MSVOA_D
ClientSampleId :
VD1230SBS01

Tot Ion:180 Resp: 108033
Ion Ratio Lower Upper
180 100
182 95.5 48.0 144.2
145 28.3 13.8 41.4

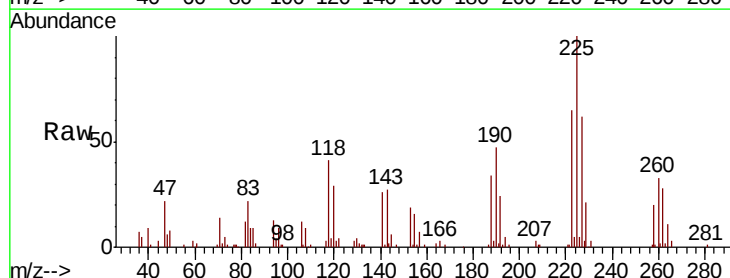


Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V

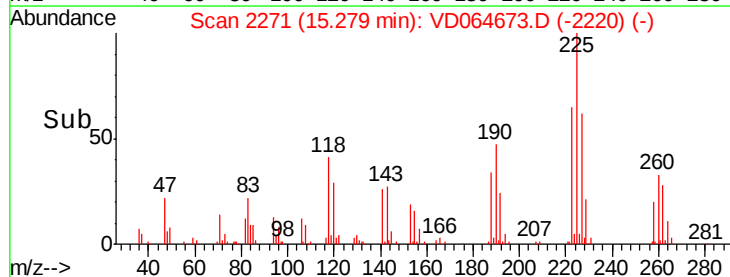
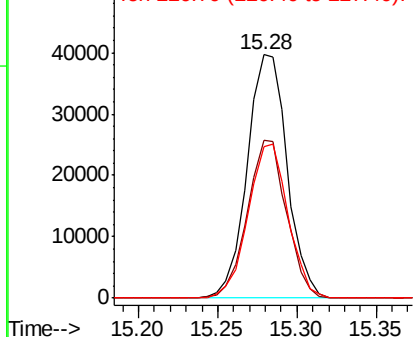


#94
Hexachlorobutadiene
Concen: 20.892 ug/l
RT: 15.28 min Scan# 2271
Delta R.T. 0.00 min
Lab File: VD064673.D
Acq: 30 Dec 2019 12:46

Tgt Ion:225 Resp: 69572
Ion Ratio Lower Upper
225 100
223 63.6 31.1 93.2
227 63.3 30.9 92.7



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: 19.347 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

Instrument :

MSVOA_D

ClientSampleId :

VD1230SBS01

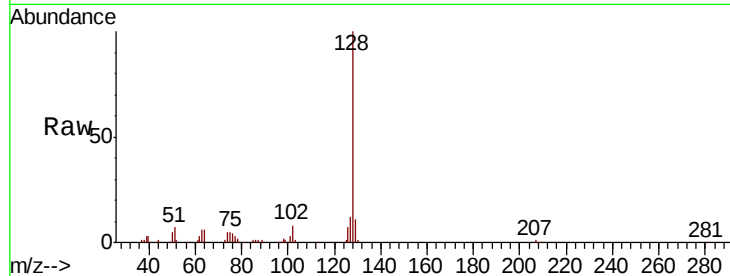
Tot Ion:128 Resp: 161972

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

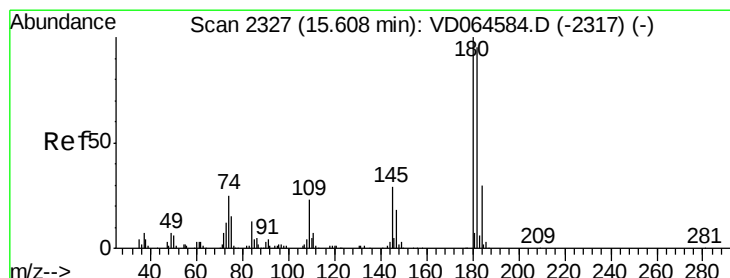
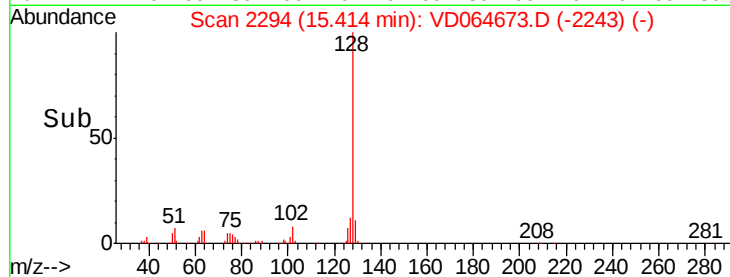
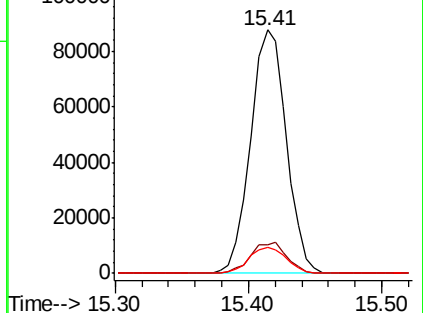
129 11.2 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 20.472 ug/l

RT: 15.61 min Scan# 2327

Delta R.T. 0.00 min

Lab File: VD064673.D

Acq: 30 Dec 2019 12:46

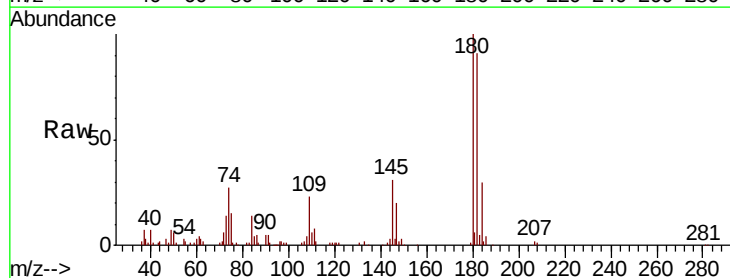
Tgt Ion:180 Resp: 92487

Ion Ratio Lower Upper

180 100

182 91.7 47.9 143.7

145 29.7 14.9 44.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

