

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112019\
 Data File : VD064317.D
 Acq On : 20 Nov 2019 17:13
 Operator : VA/SY
 Sample : K5957-04
 Misc : 5.20G/5.00ml/MSVOA D/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 21 07:04:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 12 02:43:24 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	8.00	168	974373	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	8.88	114	1497420	50.00	ug/l	0.01
63) Chlorobenzene-d5	11.65	117	1068688	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	2566338	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	472665	58.98	ug/l	0.00
Spiked Amount			Recovery	=	117.96%	
35) Dibromofluoromethane	7.93	113	484535	56.37	ug/l	0.01
Spiked Amount			Recovery	=	112.74%	
50) Toluene-d8	10.36	98	4968431	153.23	ug/l	0.01
Spiked Amount			Recovery	=	306.46%	
62) 4-Bromofluorobenzene	12.77	95	17533036	1561.38	ug/l	0.13
Spiked Amount			Recovery	=	3122.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	4.30	142	78	2.039	ug/l #	53
11) Tert butyl alcohol	5.26	59	1004	1.794	ug/l #	69
13) Acrolein	3.91	56	616	1.301	ug/l #	15
15) Acrylonitrile	5.48	53	4811	2.731	ug/l #	26
16) Acetone	4.17	43	44653	23.521	ug/l	97
17) Carbon Disulfide	4.41	76	86283	3.384	ug/l	98
20) Methylene Chloride	4.97	84	23850	2.487	ug/l	90
25) 2-Butanone	7.23	43	39911	16.272	ug/l #	69
28) Bromochloromethane	7.73	49	6071	1.118	ug/l #	10
29) Tetrahydrofuran	7.59	42	4961	3.367	ug/l #	52
30) Chloroform	7.73	83	81071	5.082	ug/l #	67
31) Cyclohexane	8.00	56	2531544	160.955	ug/l	94
36) 1,1-Dichloropropene	8.00	75	66705	4.827	ug/l #	60
37) Ethyl Acetate	7.23	43	39911	6.850	ug/l #	80
38) Carbon Tetrachloride	7.99	117	88730	6.000	ug/l #	16
39) Methylcyclohexane	9.37	83	23744383	1357.821	ug/l	94
40) Benzene	8.37	78	72505	1.920	ug/l	99
41) Methacrylonitrile	7.58	41	4344	1.186	ug/l #	25
43) Isopropyl Acetate	8.47	43	419255	34.926	ug/l #	53
44) Trichloroethene	9.13	130	107846	9.514	ug/l	98
45) 1,2-Dichloropropane	9.37	63	236744	25.752	ug/l #	1
47) Bromodichloromethane	9.65	83	178037	13.430	ug/l #	55
48) Methyl methacrylate	9.55	41	681643	116.127	ug/l #	51
49) 1,4-Dioxane	9.37	88	352	5.955	ug/l #	1
51) 4-Methyl-2-Pentanone	10.14	43	11759329	2042.772	ug/l #	42
52) Toluene	10.42	92	54023	2.175	ug/l #	1
55) 1,1,2-Trichloroethane	10.79	97	13112708	1964.005	ug/l #	22
56) Ethyl methacrylate	10.70	69	6769807	724.851	ug/l #	63
58) 2-Chloroethyl Vinyl ether	9.94	63	3806	1.006	ug/l #	45
59) 2-Hexanone	10.97	43	26077695	6367.456	ug/l #	32
60) Dibromochloromethane	10.98	129	205782	22.089	ug/l #	44
61) 1,2-Dibromoethane	11.27	107	28857	4.315	ug/l #	1
64) Tetrachloroethene	10.89	164	717935	87.349	ug/l	98
65) Chlorobenzene	11.81	112	2717025	125.025	ug/l #	43

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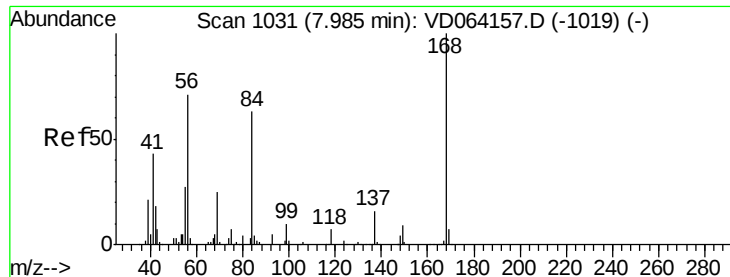
Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 21 07:04:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D110819S.M
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 Response via : Initial Calibration

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

67) Ethyl Benzene	11.85	91	1715546	43.642	ug/l #	1
68) m/p-Xylenes	11.86	106	2748312	182.403	ug/l #	9
70) Styrene	12.39	104	35834	1.469	ug/l #	1
74) N-ethyl acetate	12.45	43	15713552	353.252	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.77	83	9219178	324.805	ug/l #	30
76) 1,2,3-Trichloropropane	12.76	75	75053	3.631	ug/l #	100
77) Bromobenzene	12.78	156	312213	6.822	ug/l #	1
78) n-propylbenzene	12.77	91	1722143	8.002	ug/l #	52
79) 2-Chlorotoluene	12.77	91	1722143	14.173	ug/l #	39
80) 1,3,5-Trimethylbenzene	13.15	105	1757819	11.357	ug/l	70
81) trans-1,4-Dichloro-2-buten	12.53	75	874012	83.988	ug/l #	1
82) 4-Chlorotoluene	13.10	91	392691	3.099	ug/l #	39
83) tert-Butylbenzene	13.28	119	31502423	230.814	ug/l #	40
84) 1,2,4-Trimethylbenzene	13.15	105	1757819	11.503	ug/l	75
85) sec-Butylbenzene	13.48	105	2206199	12.035	ug/l #	1
86) p-Isopropyltoluene	13.69	119	11338717	65.063	ug/l	94
88) 1,4-Dichlorobenzene	13.62	146	113490	1.369	ug/l #	1
89) n-Butylbenzene	13.85	91	26287430	166.962	ug/l #	80
90) Hexachloroethane	14.13	117	2102366	65.276	ug/l #	4
92) 1,2-Dibromo-3-Chloropropan	14.48	75	23805	4.691	ug/l #	1
95) Naphthalene	15.41	128	2059395	22.650	ug/l	100

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 8.00 min Scan# 1033

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

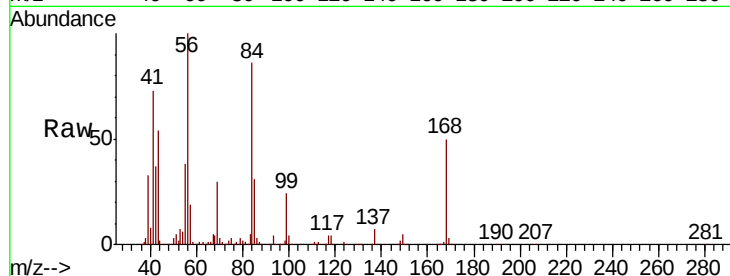
ClientSampleId :

Tot Ion:168 Resp: 974373

Ion Ratio Lower Upper

168 100

99 48.1 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

8.00

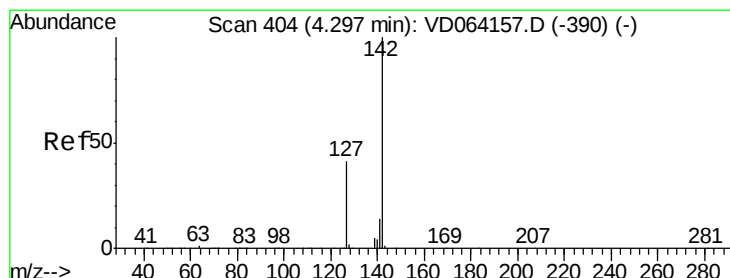
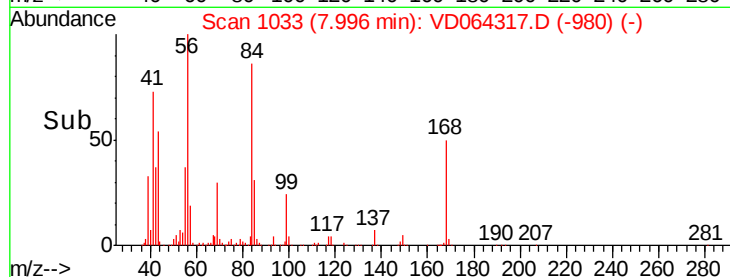
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 2.039 ug/l

RT: 4.30 min Scan# 404

Delta R.T. 0.00 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

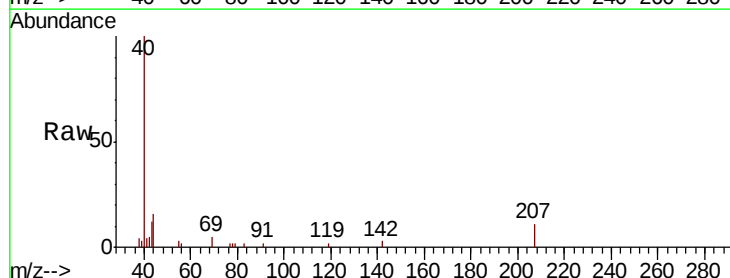
Tgt Ion:142 Resp: 78

Ion Ratio Lower Upper

142 100

127 75.6 34.4 51.6#

141 0.0 11.2 16.8#



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

4.30

300

250

200

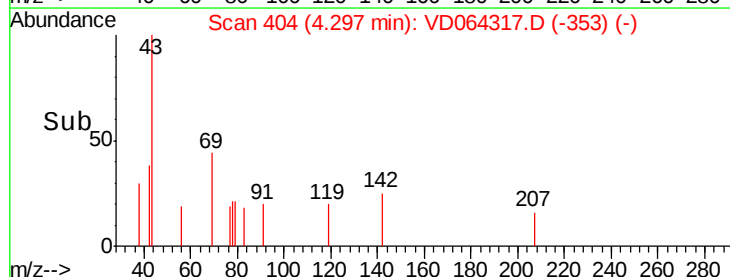
150

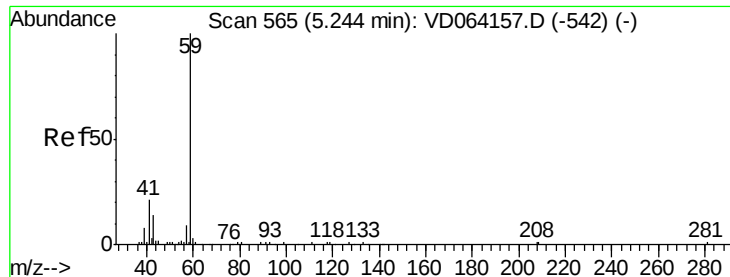
100

50

0

Time-->



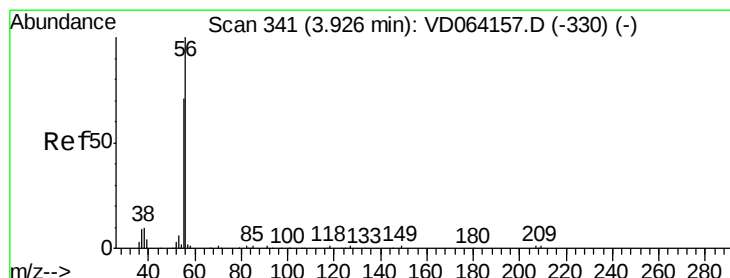
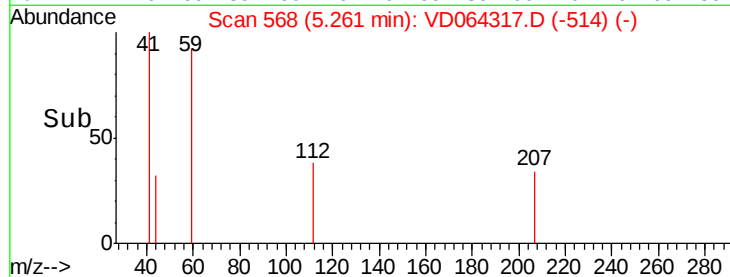
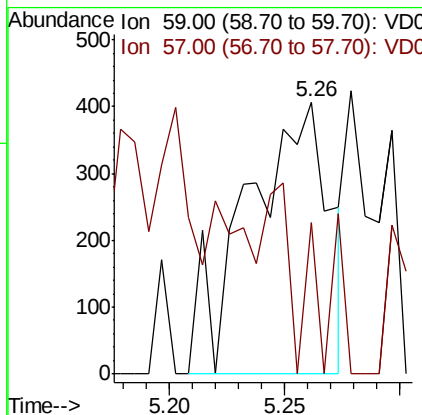
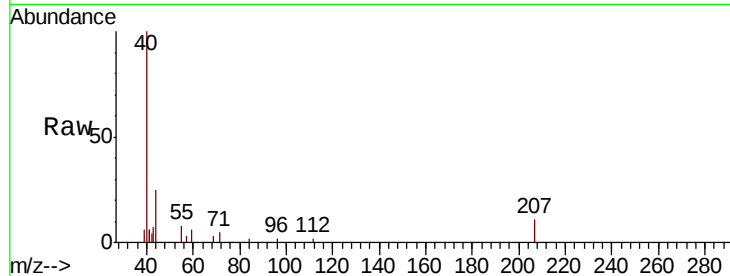


#11

Tert butyl alcohol
 Concen: 1.794 ug/l
 RT: 5.26 min Scan# 568
 Delta R.T. 0.02 min
 Lab File: VD064317.D
 Acq: 20 Nov 2019 17:13

Instrument :
 MSVOA_D
 ClientSampled :

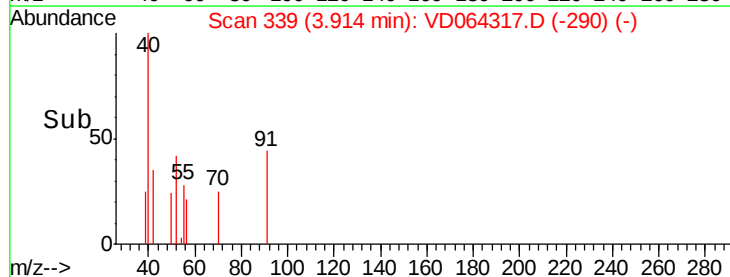
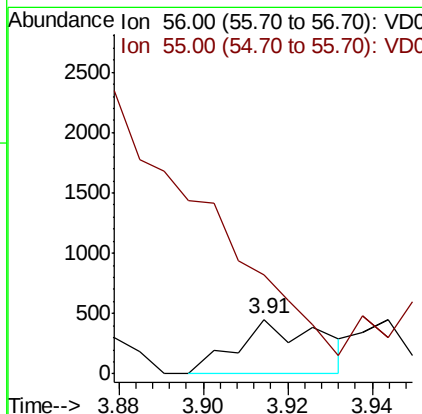
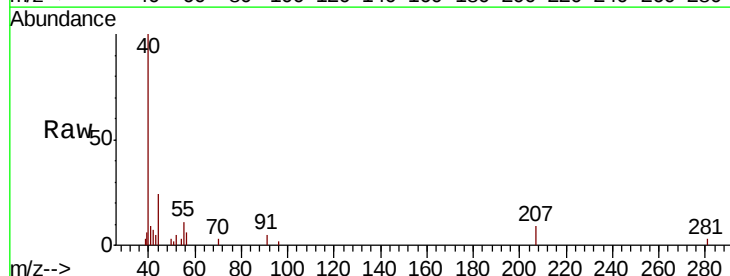
Tot Ion: 59 Resp: 1004
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.4 14.2#

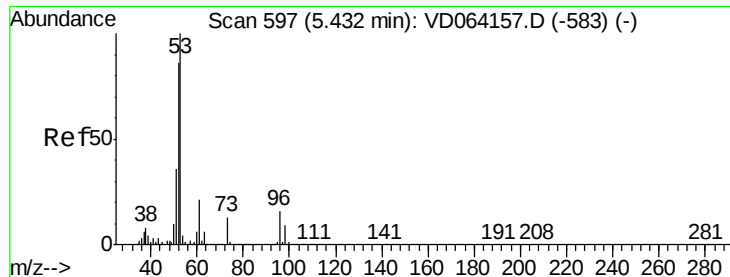


#13

Acrolein
 Concen: 1.301 ug/l
 RT: 3.91 min Scan# 339
 Delta R.T. -0.01 min
 Lab File: VD064317.D
 Acq: 20 Nov 2019 17:13

Tgt Ion: 56 Resp: 616
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.1 84.1#





#15

Acrylonitrile

Concen: 2.731 ug/l

RT: 5.48 min Scan# 606

Delta R.T. 0.05 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

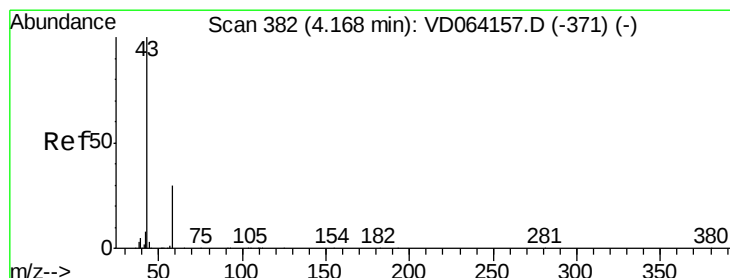
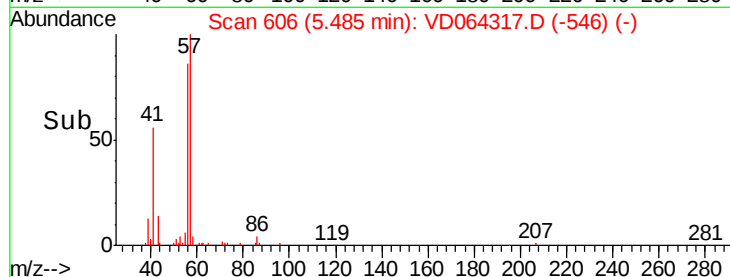
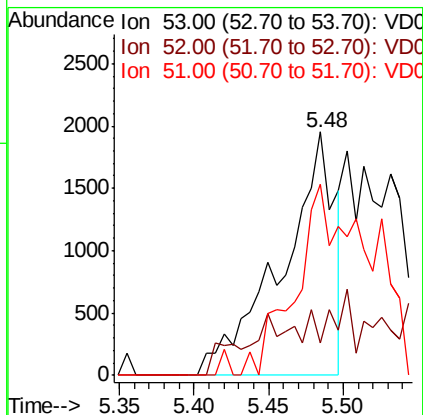
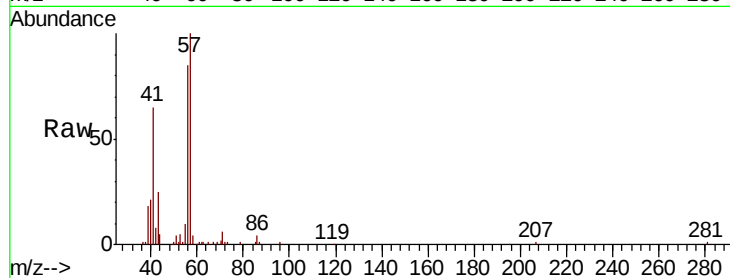
Tot Ion: 53 Resp: 4811

Ion Ratio Lower Upper

53 100

52 5.7 66.7 100.1#

51 67.7 30.6 46.0#



#16

Acetone

Concen: 23.521 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.00 min

Lab File: VD064317.D

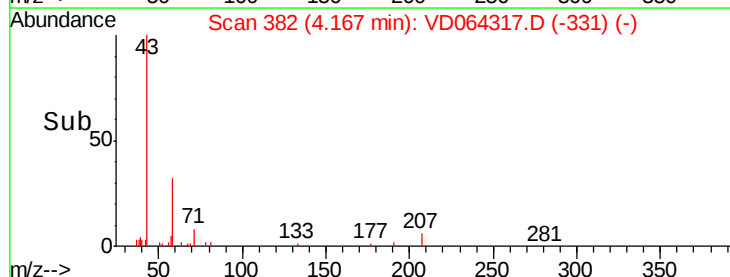
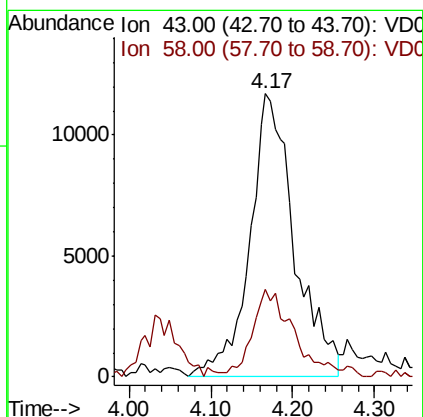
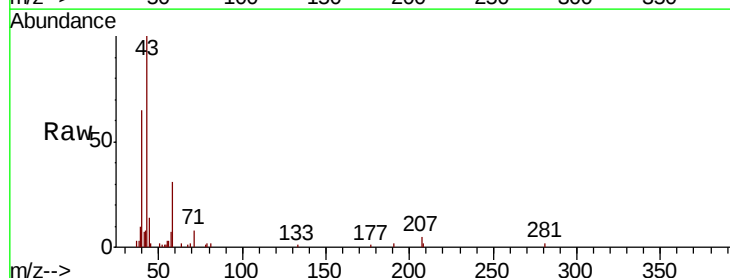
Acq: 20 Nov 2019 17:13

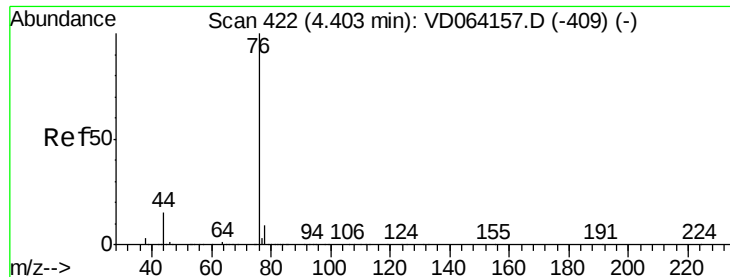
Tgt Ion: 43 Resp: 44653

Ion Ratio Lower Upper

43 100

58 28.3 24.1 36.1





#17

Carbon Disulfide

Concen: 3.384 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

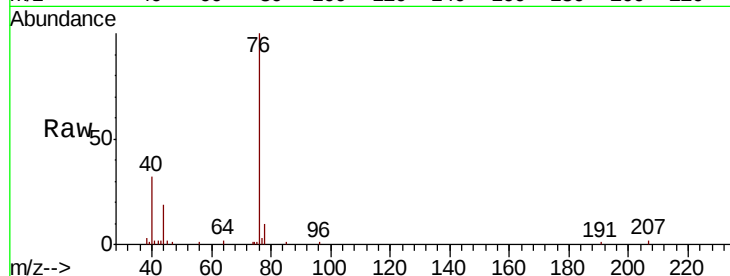
ClientSampled :

Tot Ion: 76 Resp: 86283

Ion Ratio Lower Upper

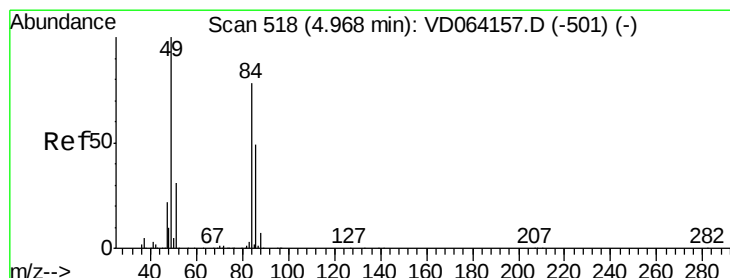
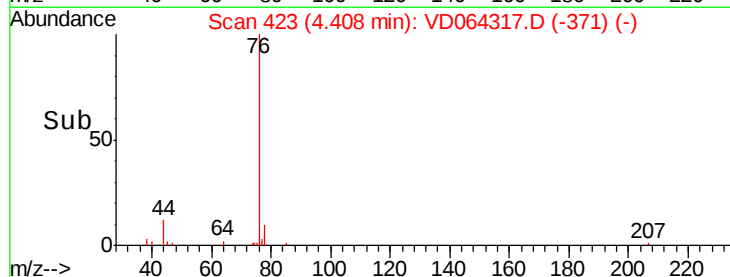
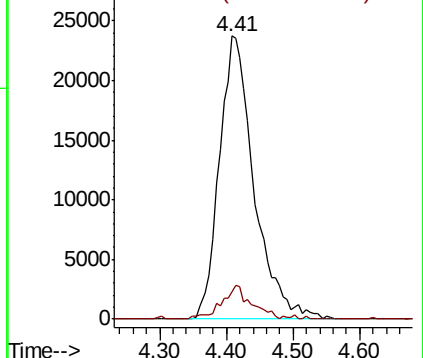
76 100

78 9.8 7.2 10.8



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#20

Methylene Chloride

Concen: 2.487 ug/l

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Tgt Ion: 84 Resp: 23850

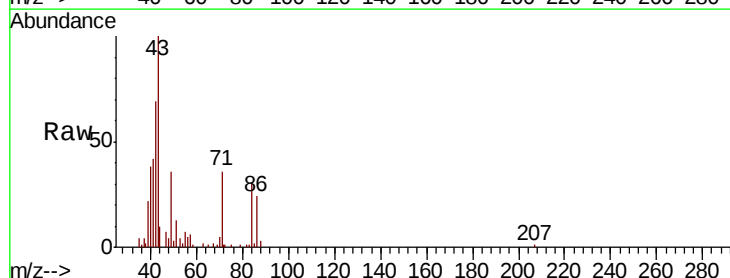
Ion Ratio Lower Upper

84 100

49 116.9 102.1 153.1

51 41.4 32.2 48.2

86 74.3 49.9 74.9

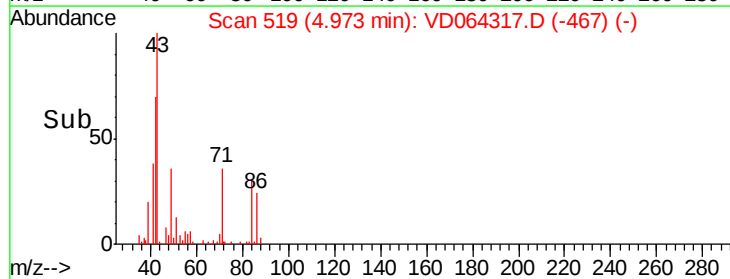
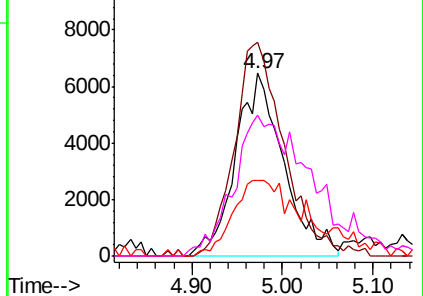


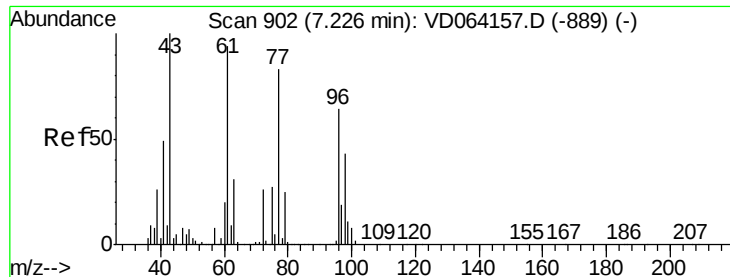
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 16.272 ug/l

RT: 7.23 min Scan# 903

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

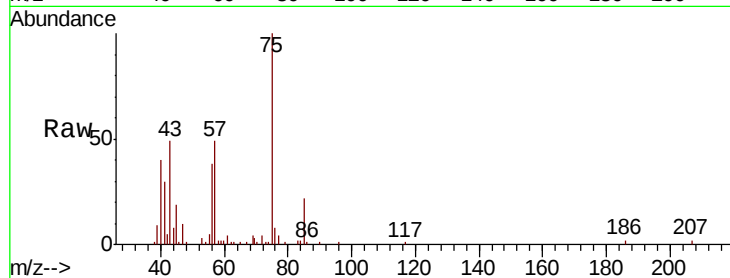
ClientSampleId :

Tot Ion: 43 Resp: 39911

Ion Ratio Lower Upper

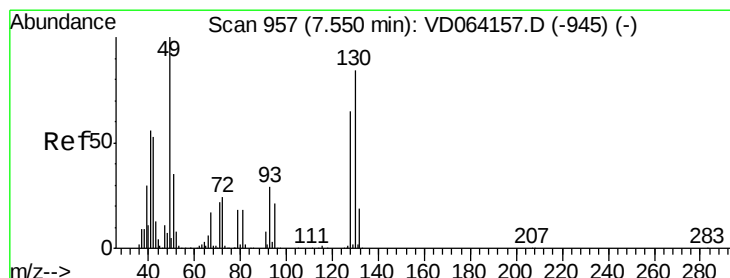
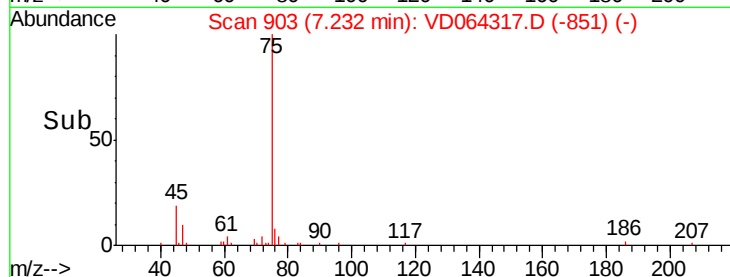
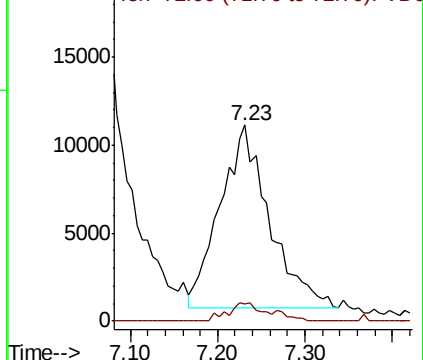
43 100

72 9.7 20.6 30.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC



#28

Bromochloromethane

Concen: 1.118 ug/l

RT: 7.73 min Scan# 988

Delta R.T. 0.18 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

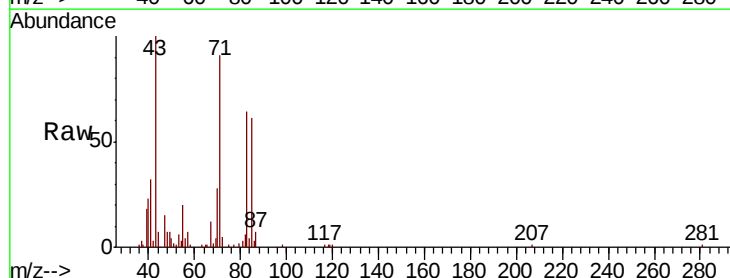
Tgt Ion: 49 Resp: 6071

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

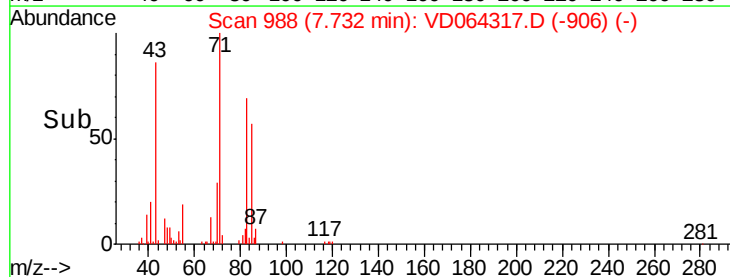
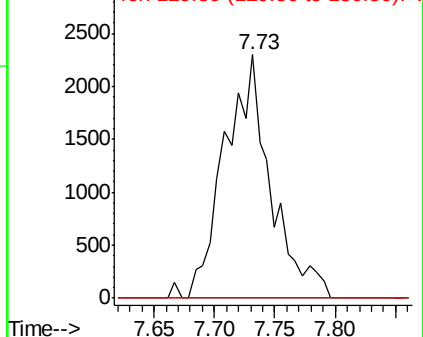
130 0.0 66.8 100.2#

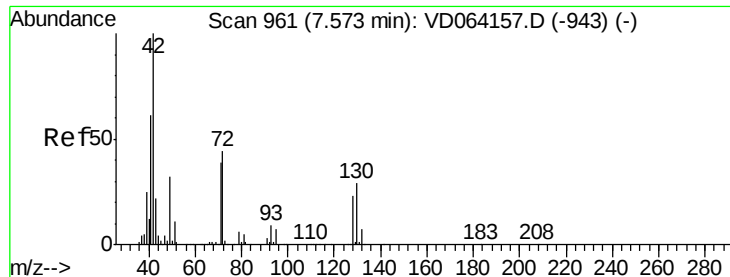


Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

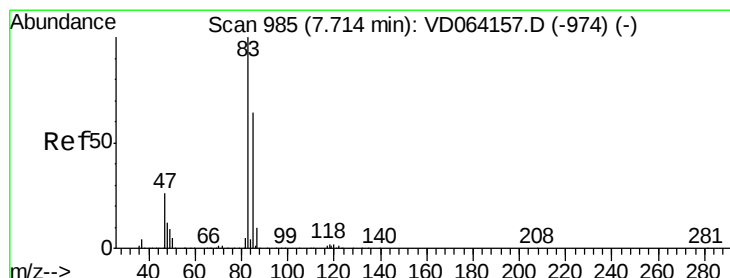
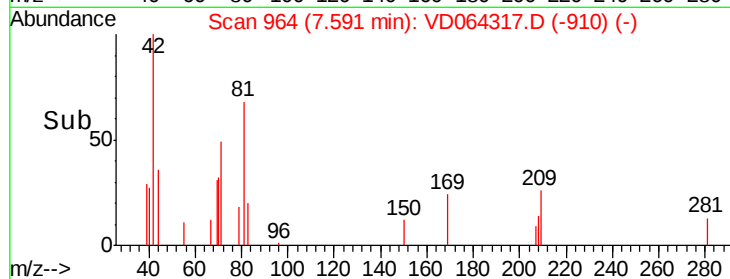
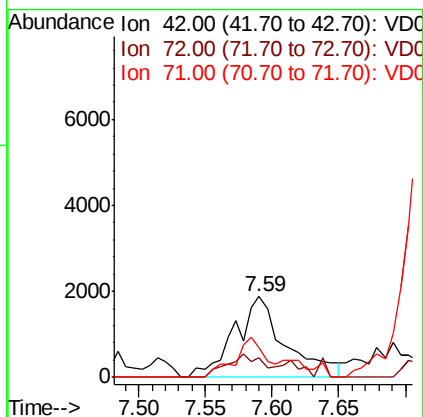
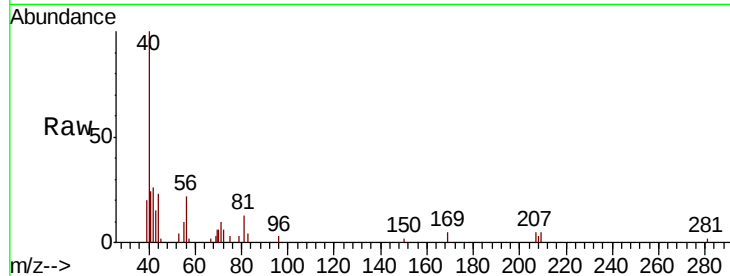




#29
Tetrahydrofuran
Concen: 3.367 ug/l
RT: 7.59 min Scan# 964
Delta R.T. 0.02 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

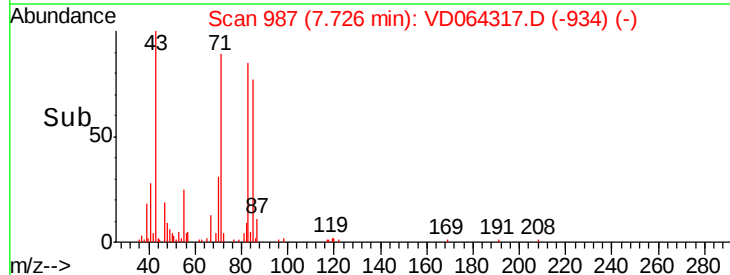
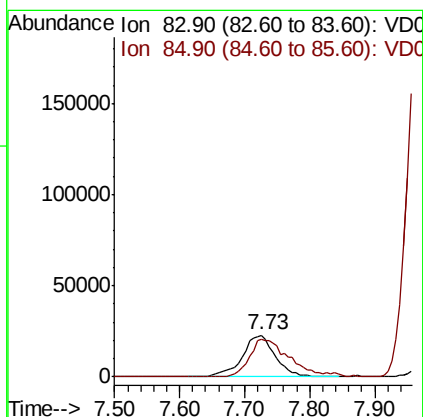
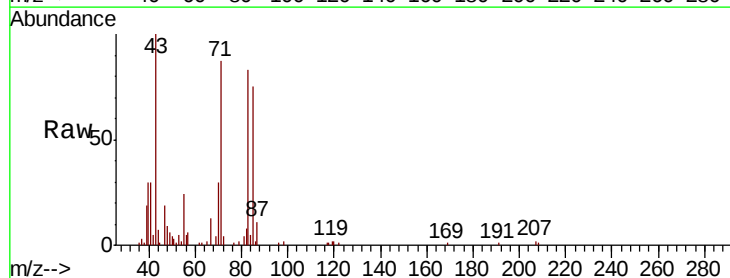
Instrument :
MSVOA_D
ClientSampleId :

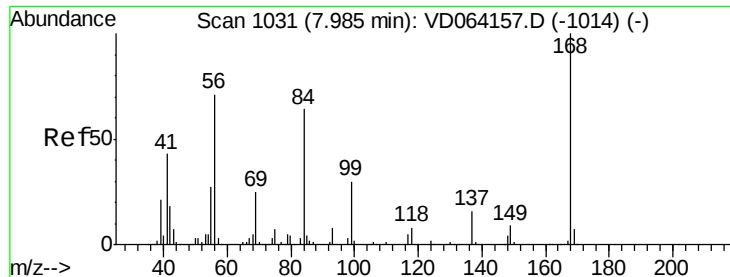
Tot Ion: 42 Resp: 4961
Ion Ratio Lower Upper
42 100
72 21.2 33.4 50.2#
71 0.0 31.0 46.4#



#30
Chloroform
Concen: 5.082 ug/l
RT: 7.73 min Scan# 987
Delta R.T. 0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion: 83 Resp: 81071
Ion Ratio Lower Upper
83 100
85 90.3 51.4 77.0#

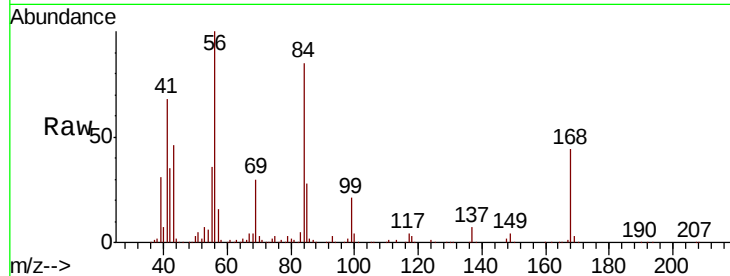




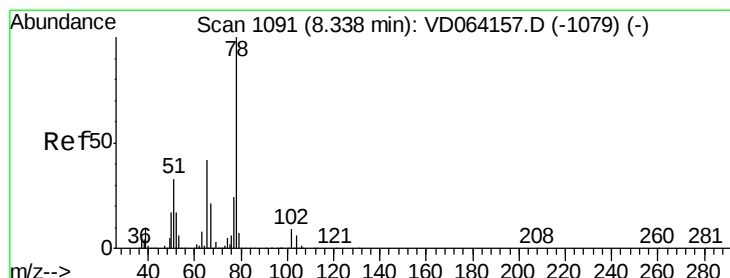
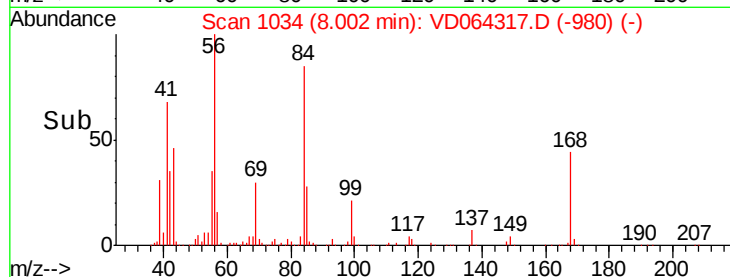
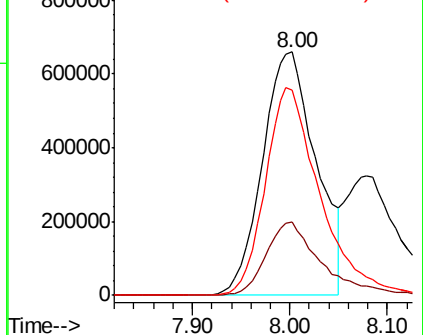
#31
Cyclohexane
Concen: 160.955 ug/l
RT: 8.00 min Scan# 1034
Delta R.T. 0.02 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 2531544
Ion Ratio Lower Upper
56 100
69 30.0 28.2 42.4
84 84.6 71.8 107.6

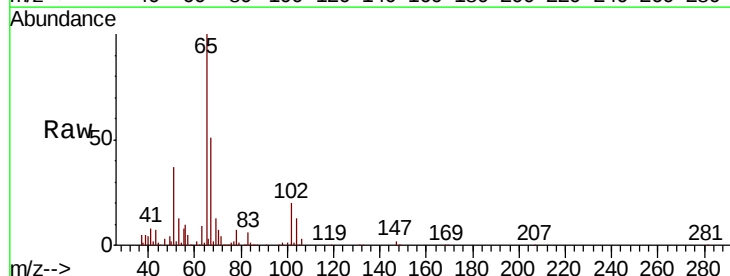


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

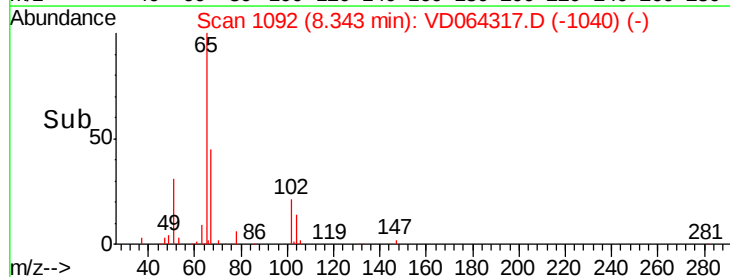
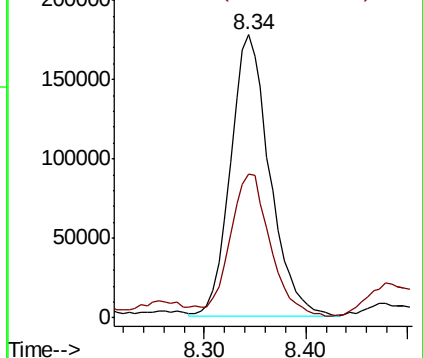


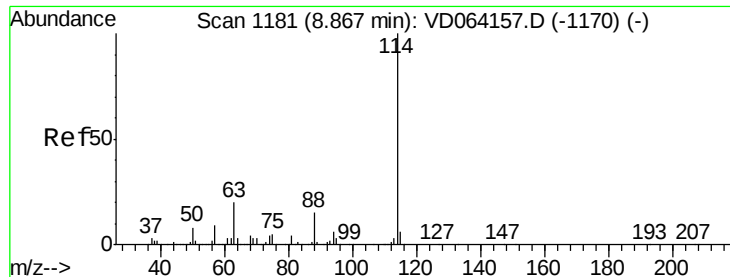
#33
1,2-Dichloroethane-d4
Concen: 58.983 ug/l
RT: 8.34 min Scan# 1092
Delta R.T. 0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion: 65 Resp: 472665
Ion Ratio Lower Upper
65 100
67 51.1 0.0 104.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.88 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :
MSVOA_D
ClientSampleId :

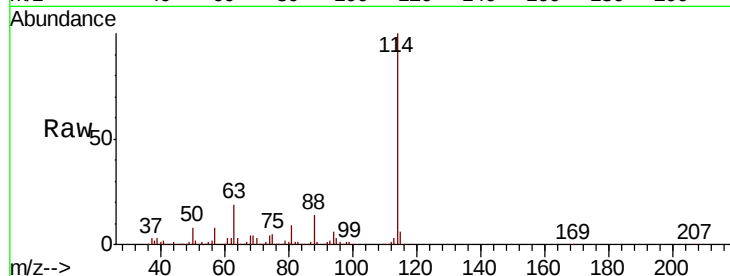
Tot Ion:114 Resp: 1497420

Ion Ratio Lower Upper

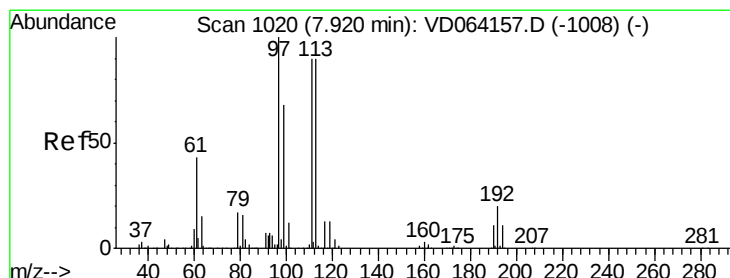
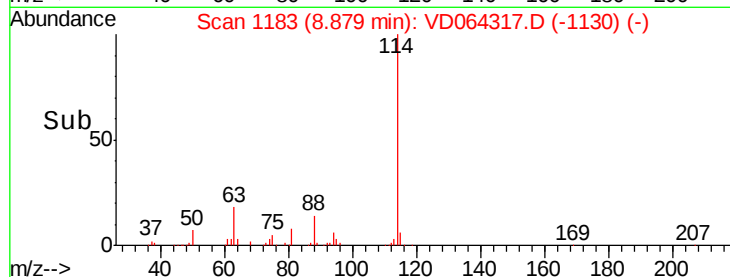
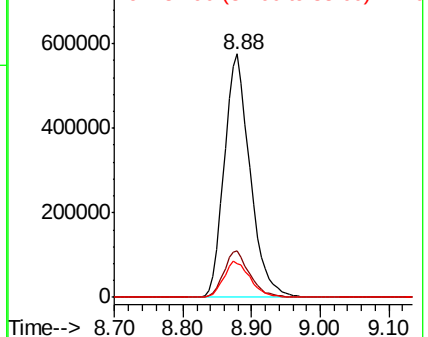
114 100

63 18.9 0.0 40.0

88 13.9 0.0 30.2



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



#35

Dibromofluoromethane

Concen: 56.371 ug/l

RT: 7.93 min Scan# 1022

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

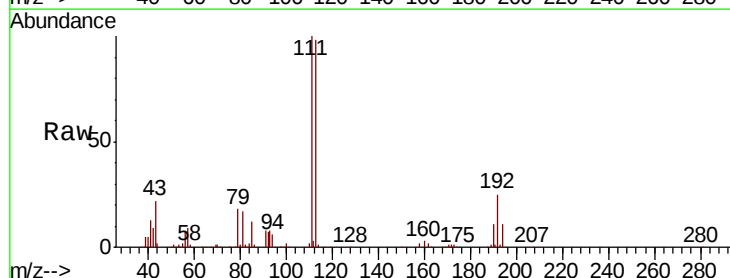
Tgt Ion:113 Resp: 484535

Ion Ratio Lower Upper

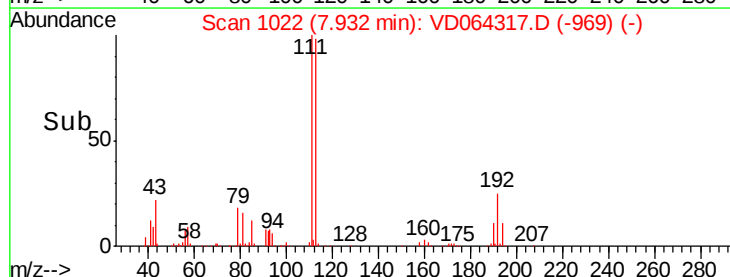
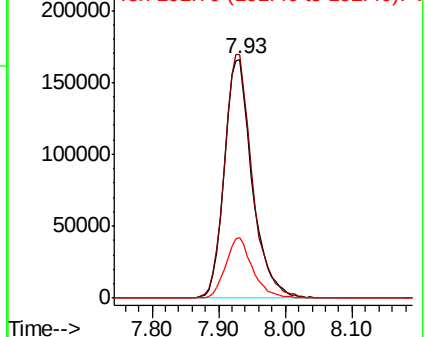
113 100

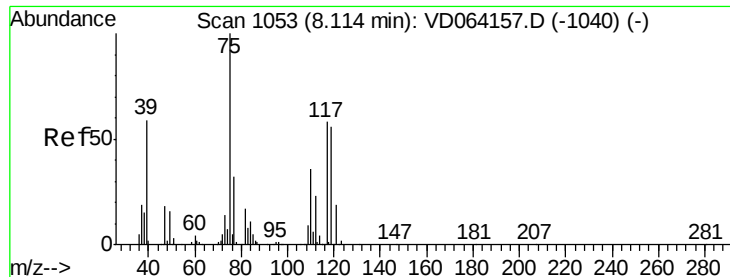
111 101.9 81.5 122.3

192 24.6 18.8 28.2



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

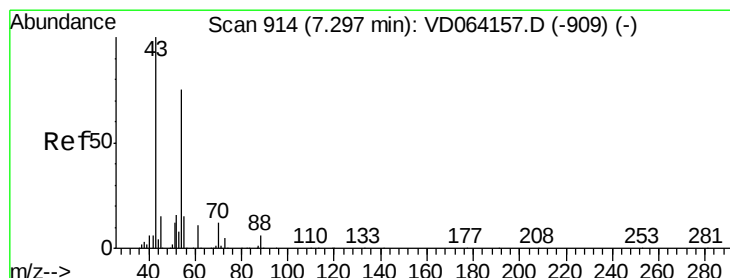
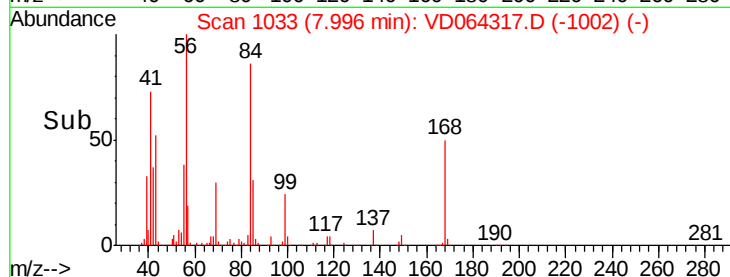
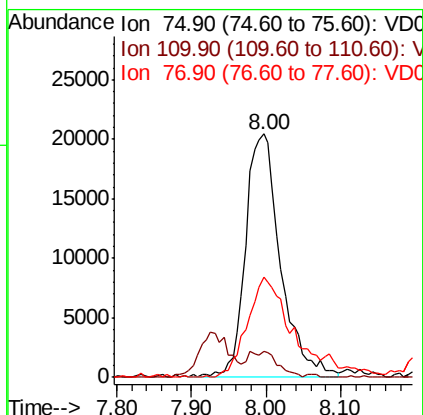
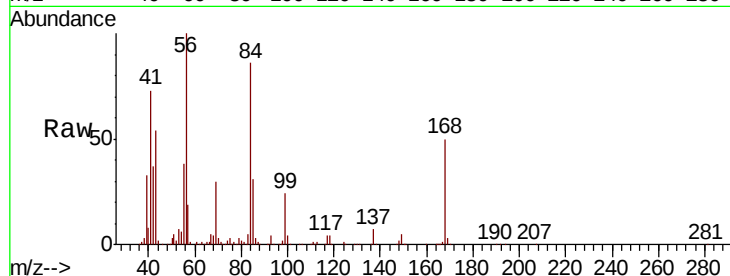




#36
 1,1-Dichloropropene
 Concen: 4.827 ug/l
 RT: 8.00 min Scan# 1033
 Delta R.T. -0.12 min
 Lab File: VD064317.D
 Acq: 20 Nov 2019 17:13

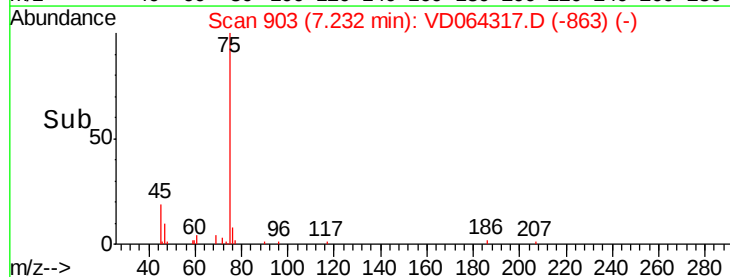
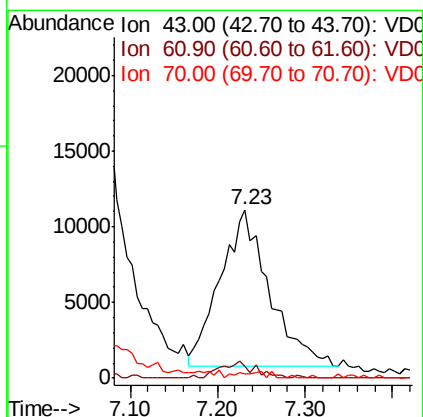
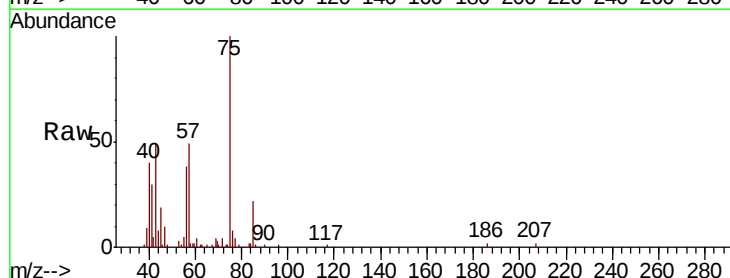
Instrument :
 MSVOA_D
 ClientSampled :

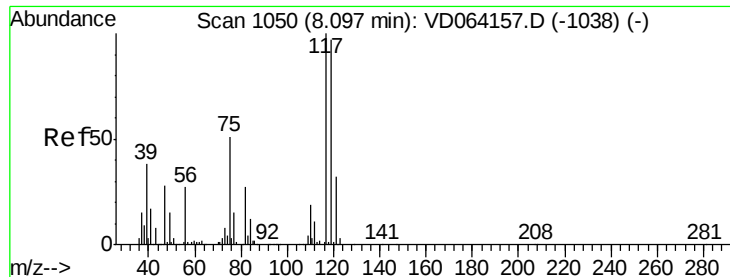
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.3	54.9#
77	49.4	25.0	37.6#



#37
 Ethyl Acetate
 Concen: 6.850 ug/l
 RT: 7.23 min Scan# 903
 Delta R.T. -0.07 min
 Lab File: VD064317.D
 Acq: 20 Nov 2019 17:13

Tgt Ion	Ratio	Lower	Upper
43	100		
61	7.5	10.2	15.2#
70	0.0	8.5	12.7#

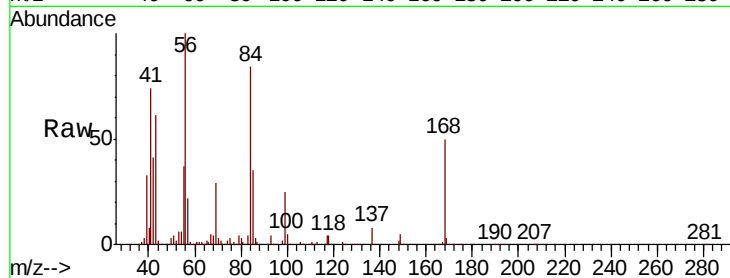




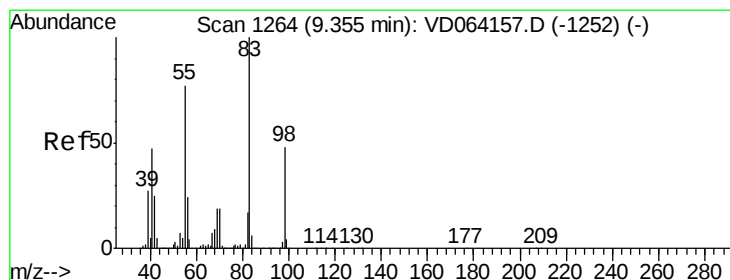
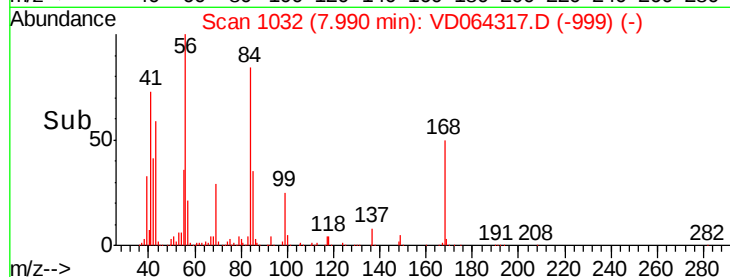
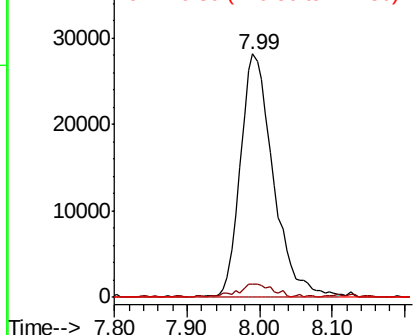
#38
Carbon Tetrachloride
Concen: 6.000 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. -0.11 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Instrument :
MSVOA_D
ClientSampled :

Tot Ion:117 Resp: 88730
Ion Ratio Lower Upper
117 100
119 5.2 77.2 115.8#
121 0.0 25.5 38.3#

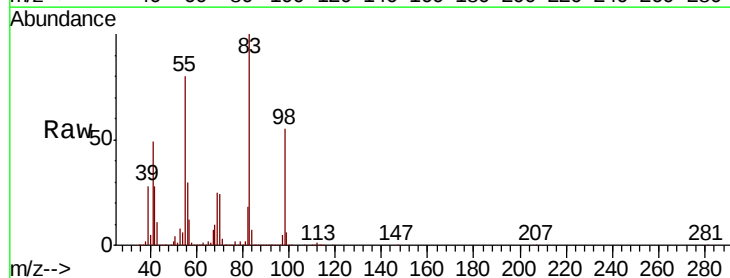


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

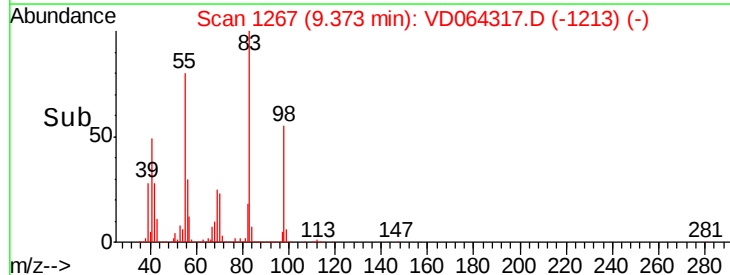
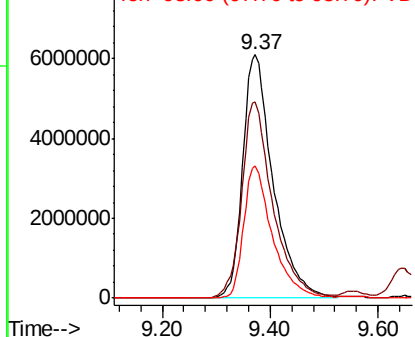


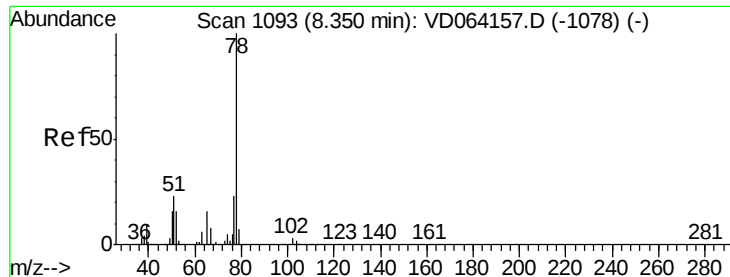
#39
Methylcyclohexane
Concen: 1357.821 ug/l
RT: 9.37 min Scan# 1267
Delta R.T. 0.02 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion: 83 Resp:23744383
Ion Ratio Lower Upper
83 100
55 80.4 61.7 92.5
98 54.5 38.6 58.0



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





#40

Benzene

Concen: 1.920 ug/l

RT: 8.37 min Scan# 1096

Delta R.T. 0.02 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

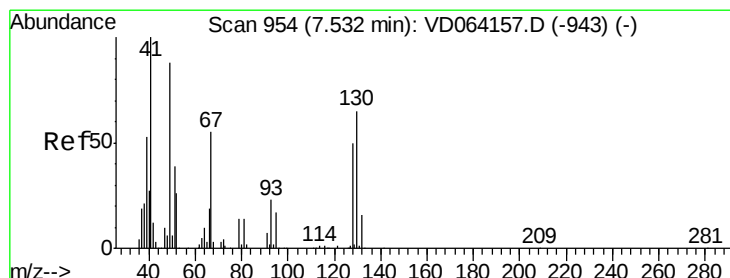
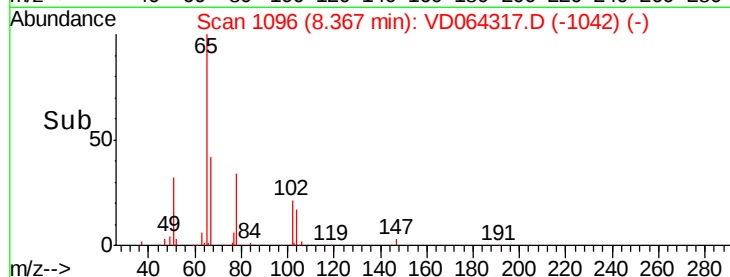
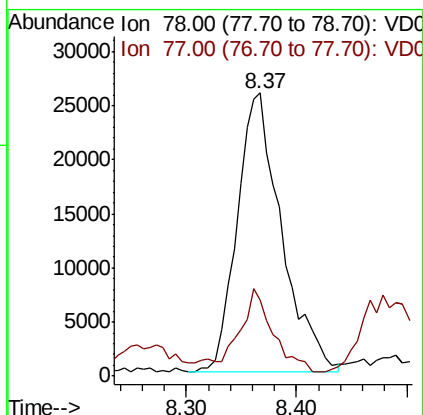
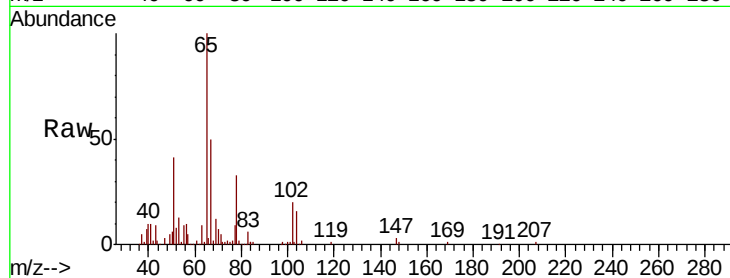
ClientSampleId :

Tot Ion: 78 Resp: 72505

Ion Ratio Lower Upper

78 100

77 23.9 18.6 28.0



#41

Methacrylonitrile

Concen: 1.186 ug/l

RT: 7.58 min Scan# 962

Delta R.T. 0.05 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Tgt Ion: 41 Resp: 4344

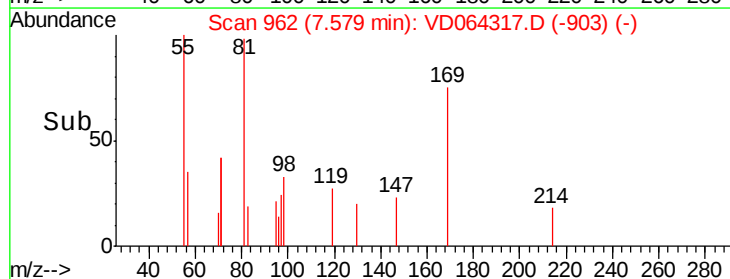
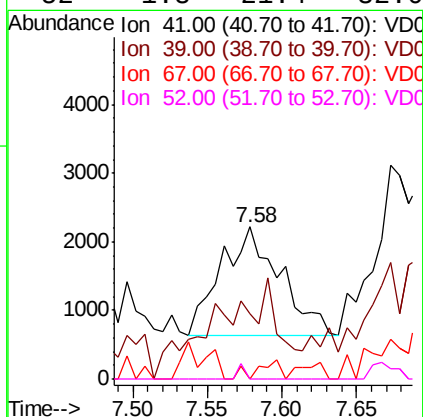
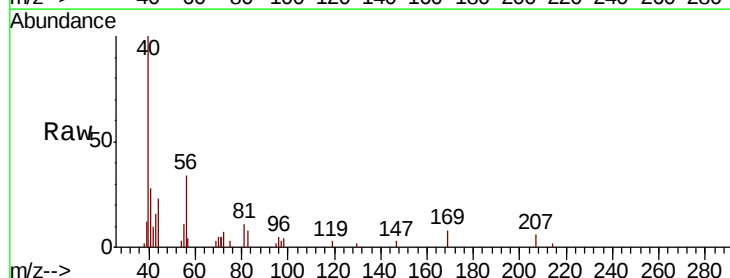
Ion Ratio Lower Upper

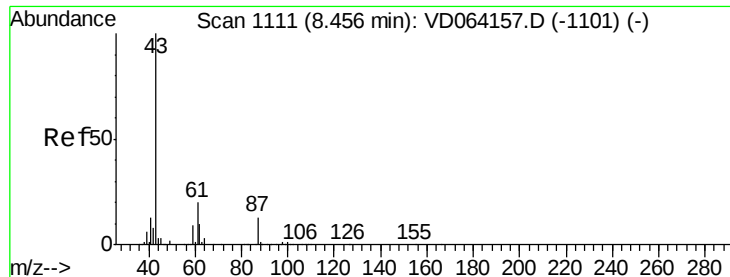
41 100

39 0.0 49.4 74.2#

67 0.0 49.6 74.4#

52 1.8 21.4 32.0#





#43

Isopropyl Acetate

Concen: 34.926 ug/l

RT: 8.47 min Scan# 1114

Delta R.T. 0.02 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

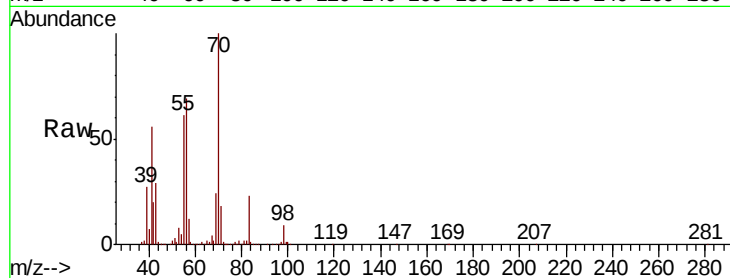
Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 419255

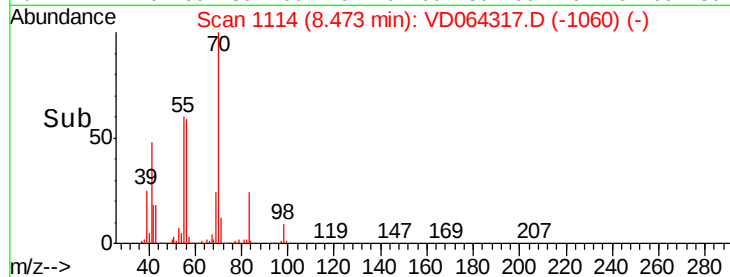
Ion	Ratio	Lower	Upper
43	100		
61	0.4	22.9	34.3#
87	0.1	10.2	15.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 61.00 (60.70 to 61.70): VDC

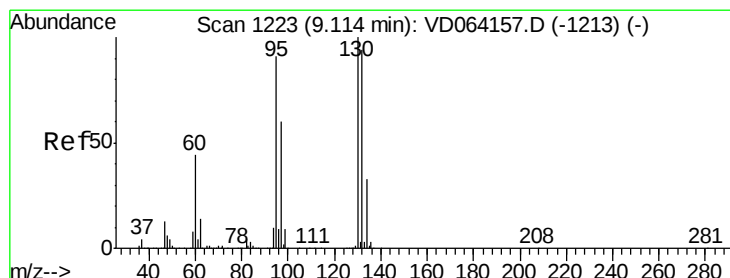
Ion 87.00 (86.70 to 87.70): VDC



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: 9.514 ug/l

RT: 9.13 min Scan# 1225

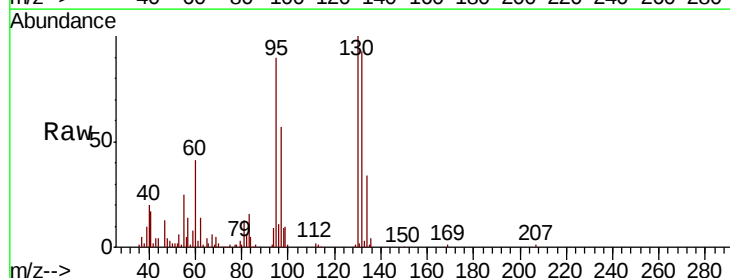
Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

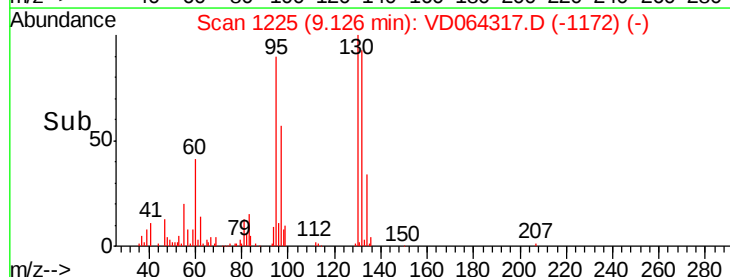
Tgt Ion:130 Resp: 107846

Ion	Ratio	Lower	Upper
130	100		
95	89.3	0.0	181.6



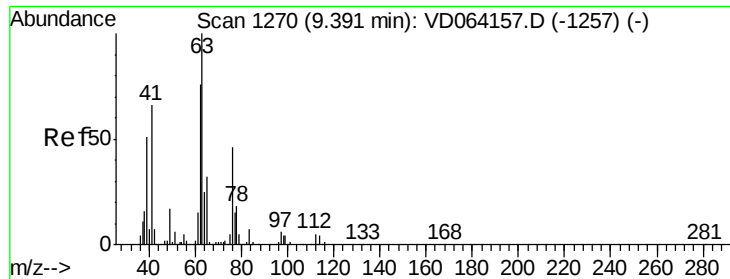
Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC



Abundance Ion 129.80 (129.50 to 130.50): VDC

Ion 94.90 (94.60 to 95.60): VDC



#45

1,2-Dichloropropane

Concen: 25.752 ug/l

RT: 9.37 min Scan# 1266

Delta R.T. -0.02 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

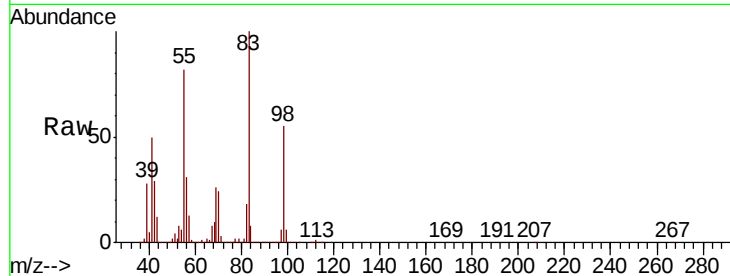
ClientSampled :

Tot Ion: 63 Resp: 236744

Ion Ratio Lower Upper

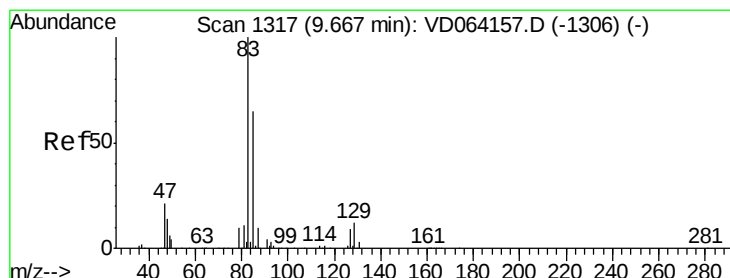
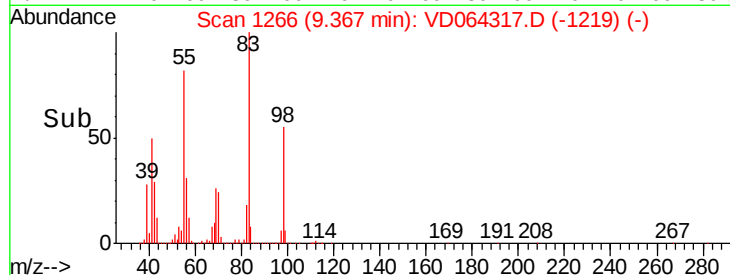
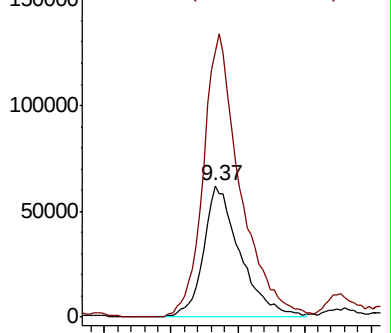
63 100

65 202.0 25.7 38.5#



Abundance Ion 62.90 (62.60 to 63.60): VDC

Ion 64.90 (64.60 to 65.60): VDC



#47

Bromodichloromethane

Concen: 13.430 ug/l

RT: 9.65 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

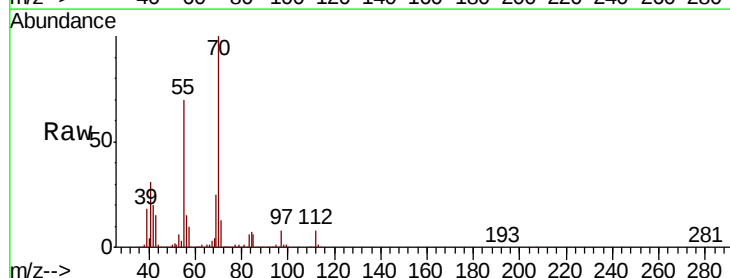
Tgt Ion: 83 Resp: 178037

Ion Ratio Lower Upper

83 100

85 103.1 52.2 78.4#

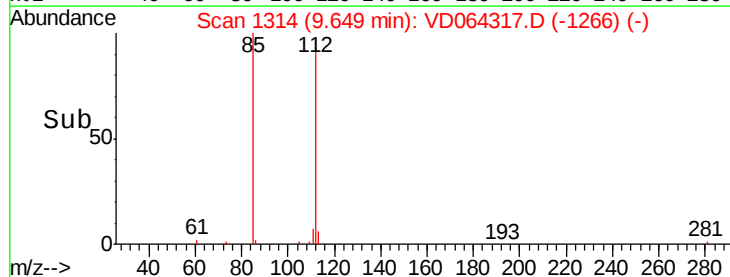
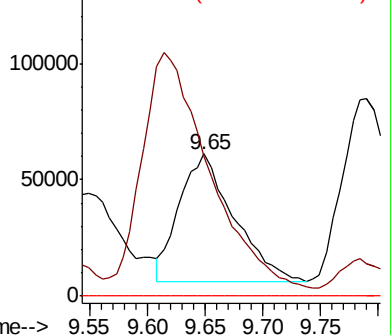
127 0.0 7.5 11.3#

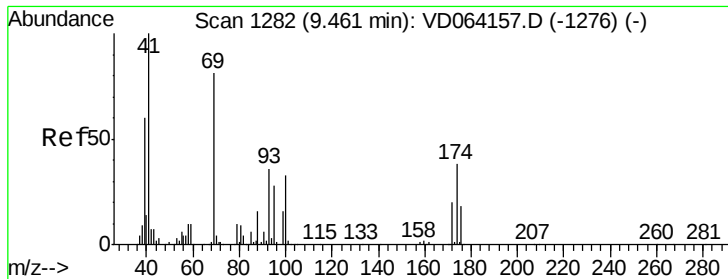


Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 126.80 (126.50 to 127.50): V





#48

Methyl methacrylate

Concen: 116.127 ug/l

RT: 9.55 min Scan# 1297

Delta R.T. 0.09 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :
MSVOA_D
ClientSampled :

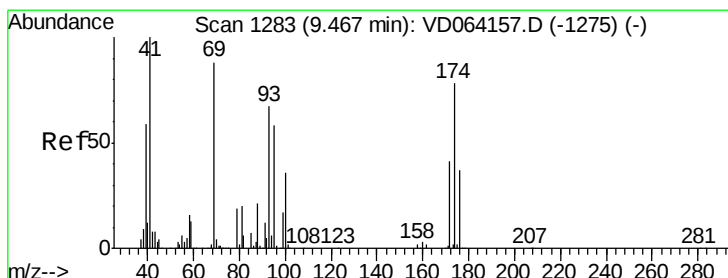
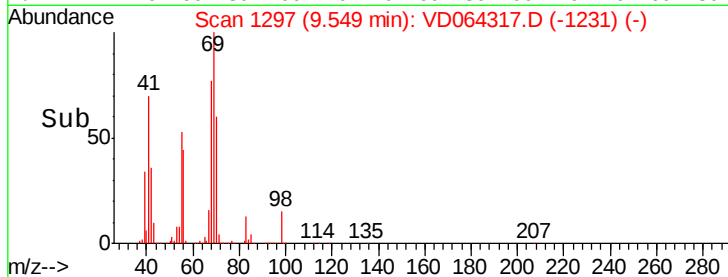
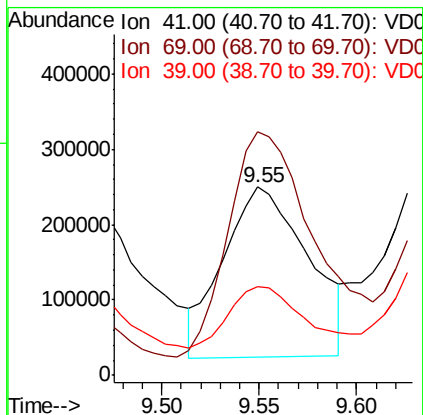
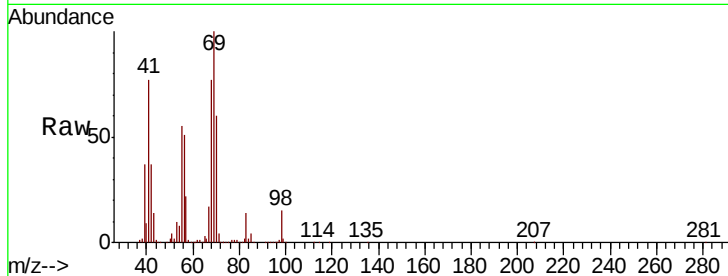
Tot Ion: 41 Resp: 681643

Ion Ratio Lower Upper

41 100

69 145.9 64.6 97.0#

39 47.5 48.2 72.2#



#49

1,4-Dioxane

Concen: 5.955 ug/l

RT: 9.37 min Scan# 1267

Delta R.T. -0.09 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

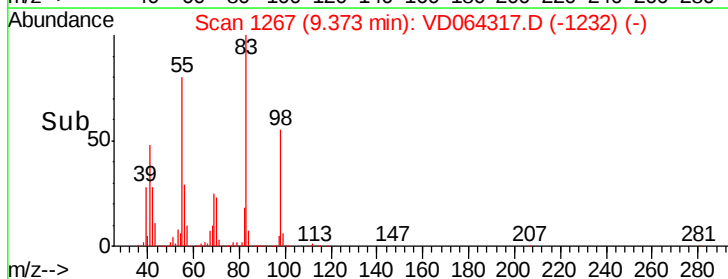
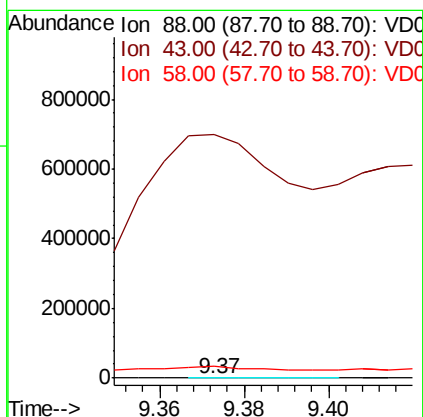
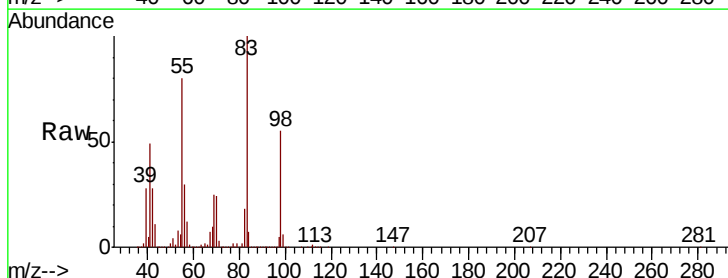
Tgt Ion: 88 Resp: 352

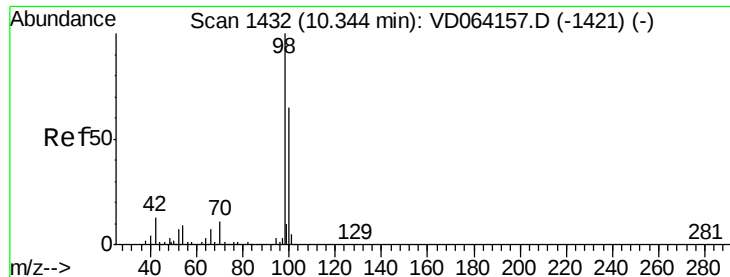
Ion Ratio Lower Upper

88 100

43 587296.9 29.8 44.8#

58 31813.1 58.1 87.1#

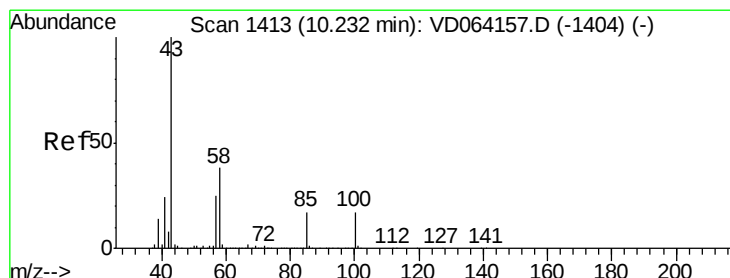
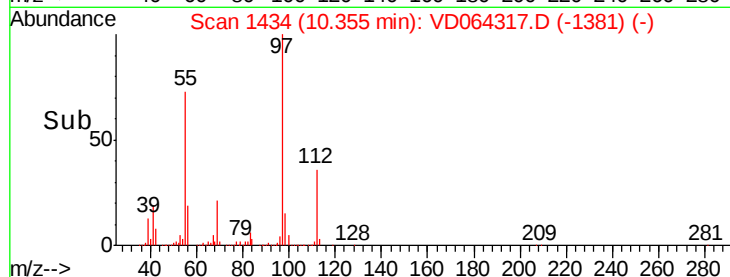
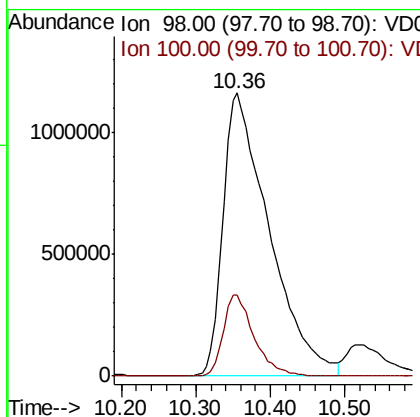
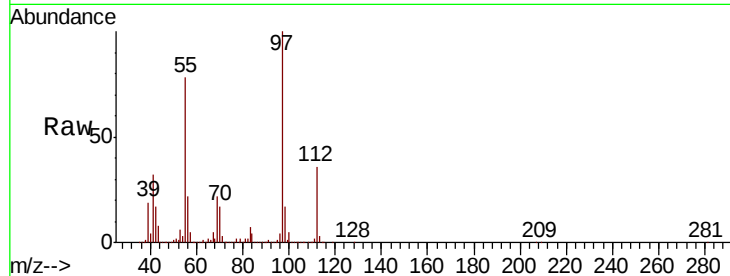




#50
Toluene-d8
Concen: 153.225 ug/l
RT: 10.36 min Scan# 1434
Delta R.T. 0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

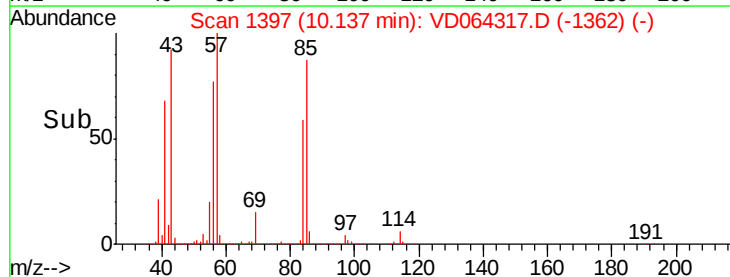
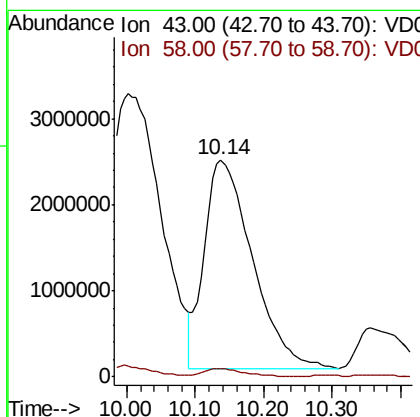
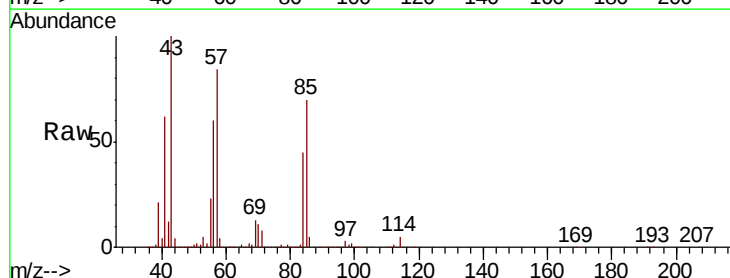
Instrument :
MSVOA_D
ClientSampleId :

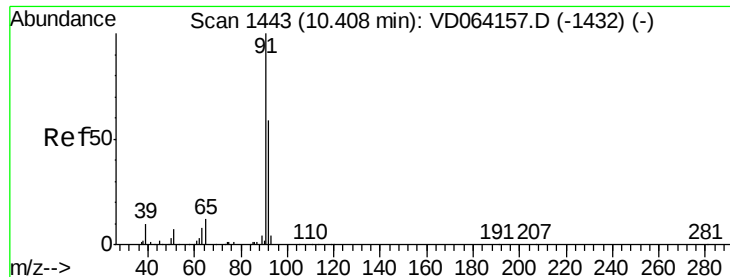
Tot Ion: 98 Resp: 4968431
Ion Ratio Lower Upper
98 100
100 19.3 52.6 78.8#



#51
4-Methyl-2-Pentanone
Concen: 2042.772 ug/l
RT: 10.14 min Scan# 1397
Delta R.T. -0.09 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion: 43 Resp: 11759329
Ion Ratio Lower Upper
43 100
58 3.1 30.2 45.4#





#52

Toluene

Concen: 2.175 ug/l

RT: 10.42 min Scan# 1445

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

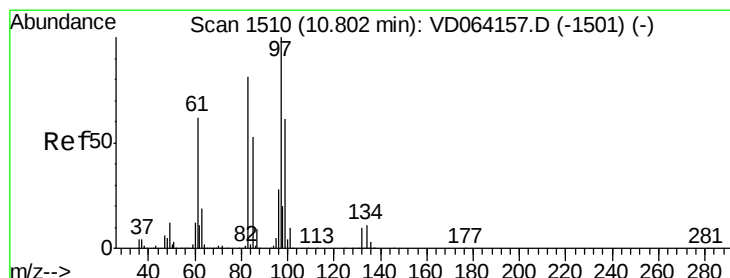
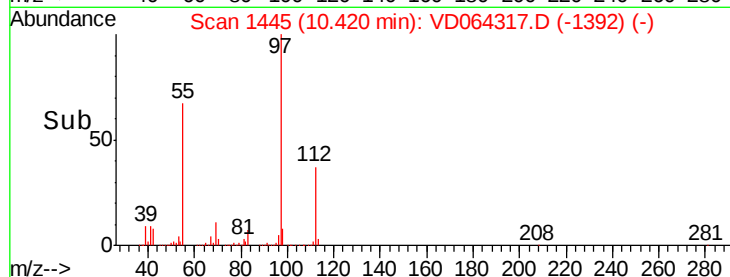
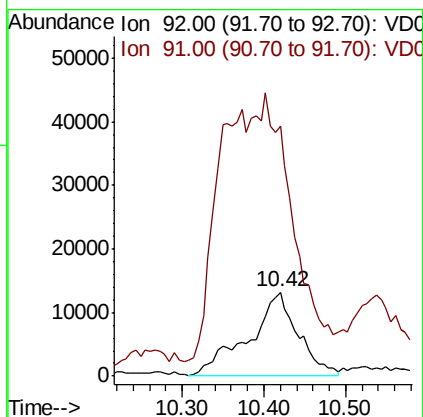
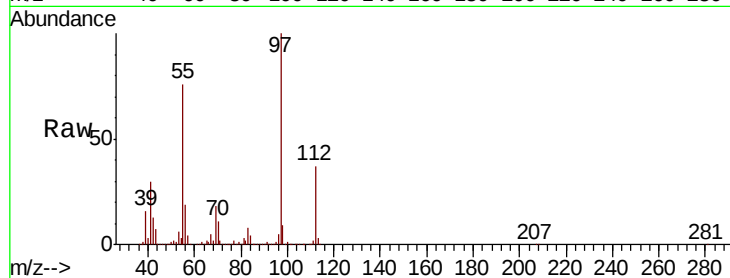
ClientSampleId :

Tot Ion: 92 Resp: 54023

Ion Ratio Lower Upper

92 100

91 0.0 136.4 204.6#



#55

1,1,2-Trichloroethane

Concen: 1964.005 ug/l

RT: 10.79 min Scan# 1508

Delta R.T. -0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Tgt Ion: 97 Resp: 13112708

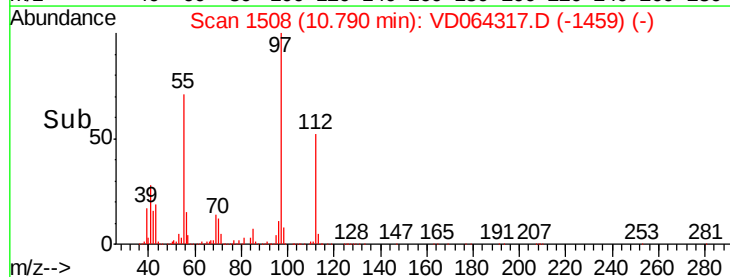
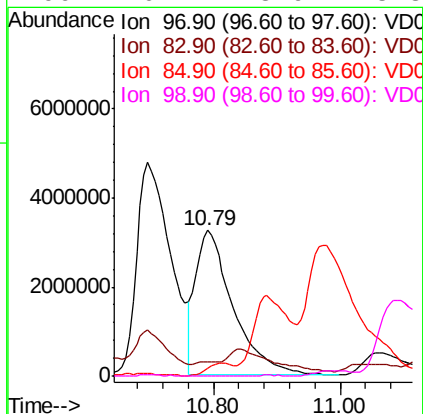
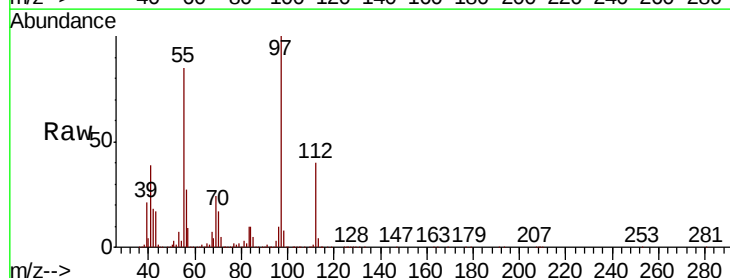
Ion Ratio Lower Upper

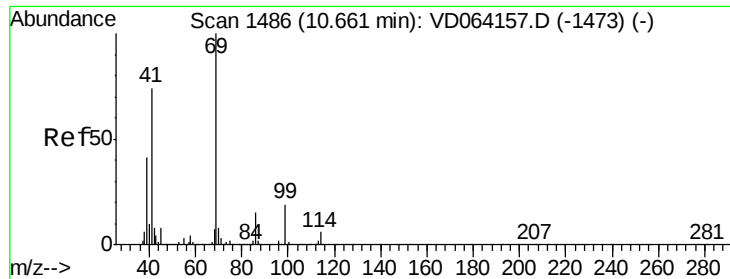
97 100

83 6.6 65.1 97.7#

85 4.9 42.0 63.0#

99 0.1 48.9 73.3#





#56

Ethyl methacrylate

Concen: 724.851 ug/l

RT: 10.70 min Scan# 1492

Delta R.T. 0.03 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampled :

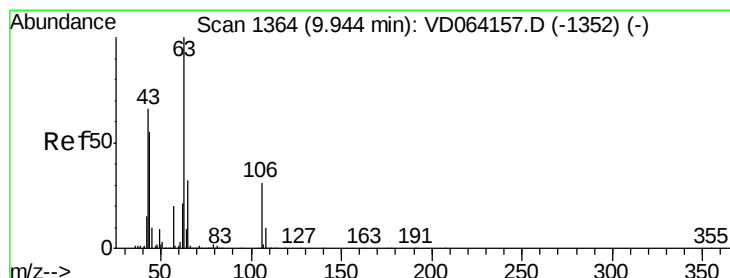
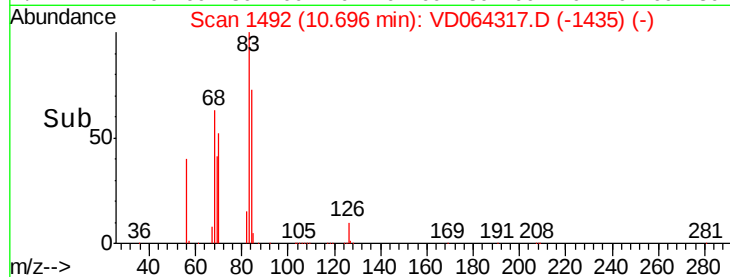
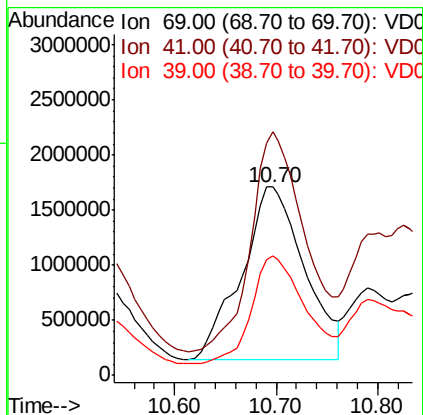
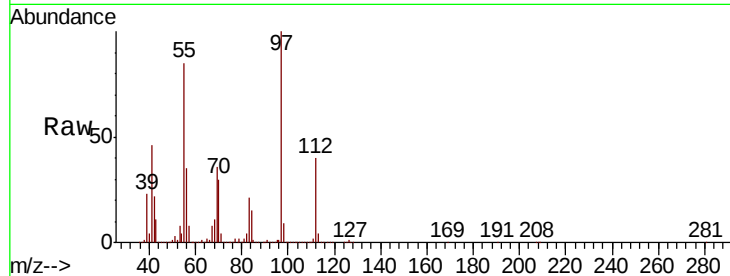
Tot Ion: 69 Resp: 6769807

Ion Ratio Lower Upper

69 100

41 107.9 57.9 86.9#

39 52.2 29.0 43.4#



#58

2-Chloroethyl Vinyl ether

Concen: 1.006 ug/l

RT: 9.94 min Scan# 1363

Delta R.T. -0.01 min

Lab File: VD064317.D

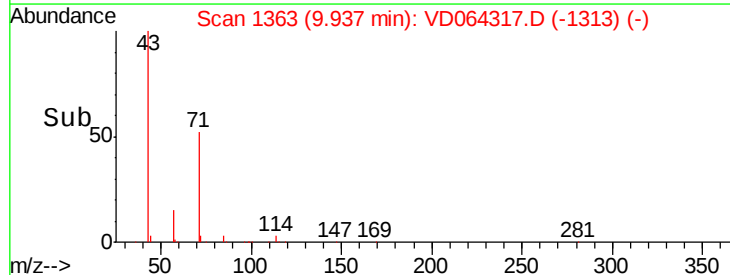
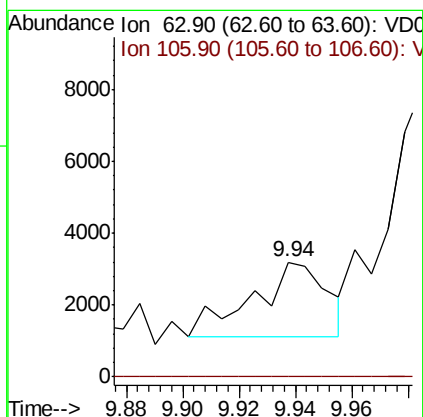
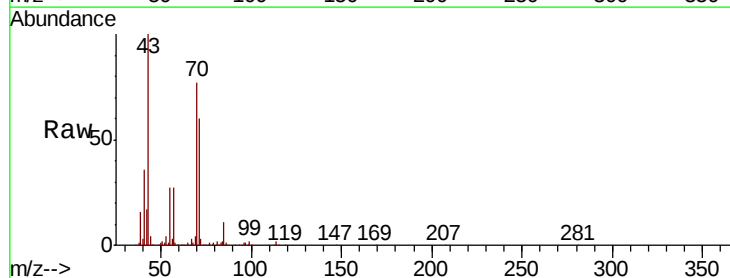
Acq: 20 Nov 2019 17:13

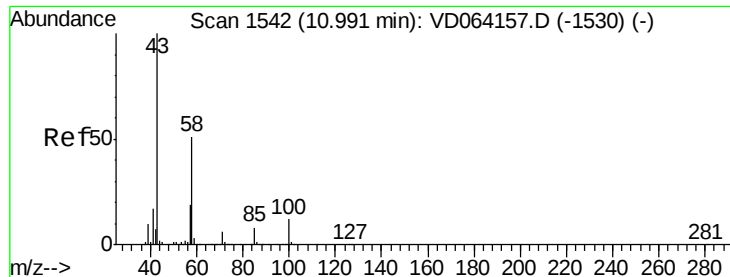
Tgt Ion: 63 Resp: 3806

Ion Ratio Lower Upper

63 100

106 0.0 24.1 36.1#

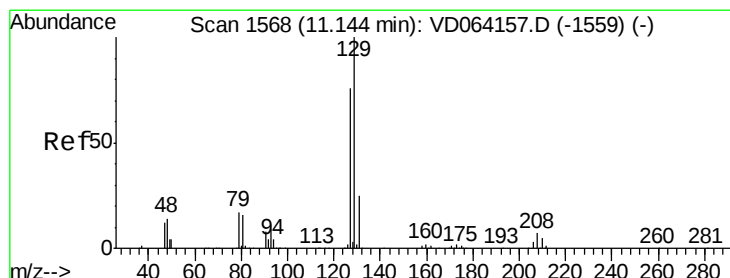
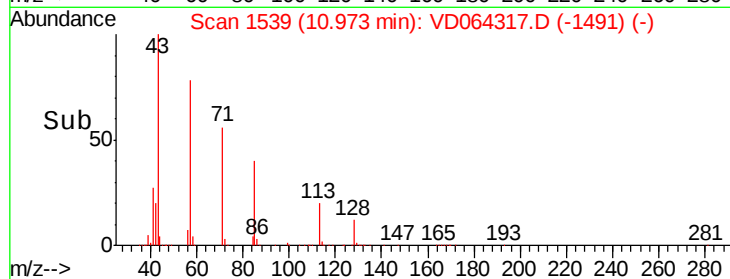
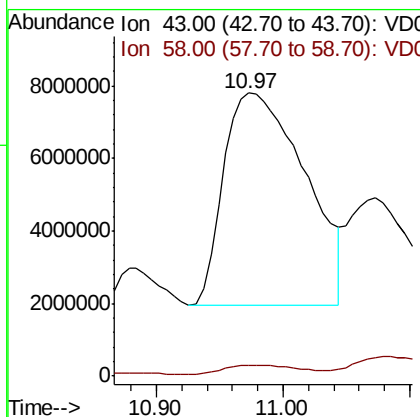
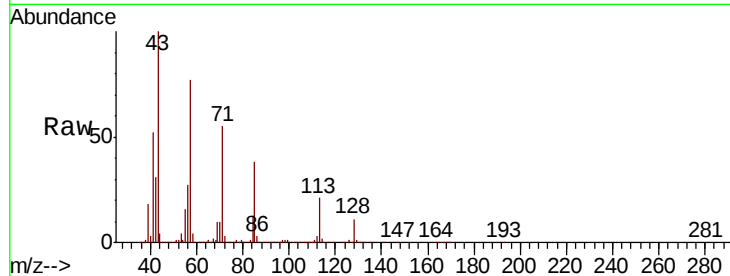




#59
2-Hexanone
Concen: 6367.456 ug/l
RT: 10.97 min Scan# 1539
Delta R.T. -0.02 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

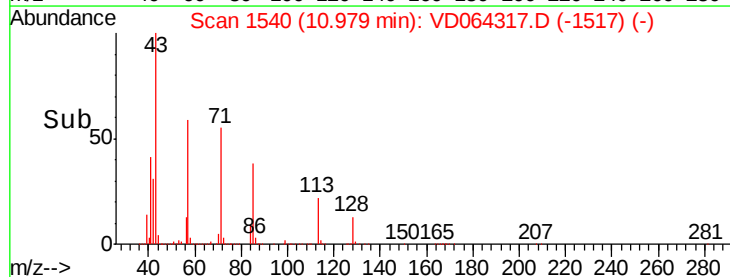
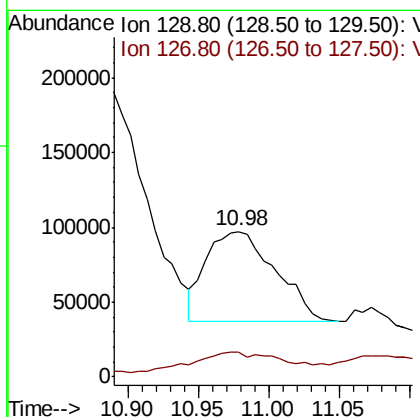
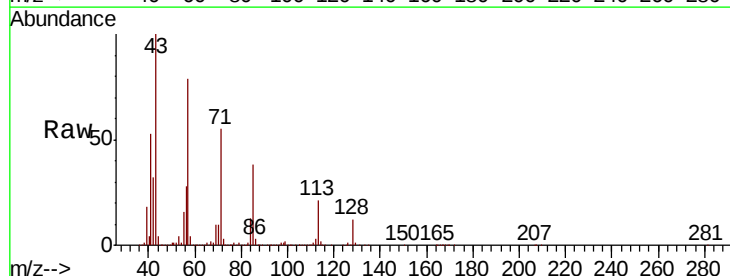
Instrument :
MSVOA_D
ClientSampled :

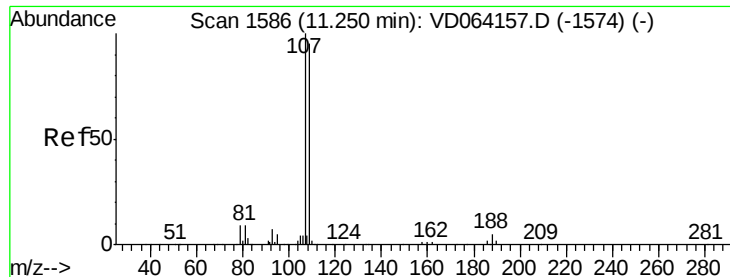
Tot Ion: 43 Resp: 26077695
Ion Ratio Lower Upper
43 100
58 4.0 25.9 77.7#



#60
Dibromochloromethane
Concen: 22.089 ug/l
RT: 10.98 min Scan# 1540
Delta R.T. -0.17 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion: 129 Resp: 205782
Ion Ratio Lower Upper
129 100
127 28.7 38.6 115.8#





#61

1,2-Dibromoethane

Concen: 4.315 ug/l

RT: 11.27 min Scan# 1590

Delta R.T. 0.02 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

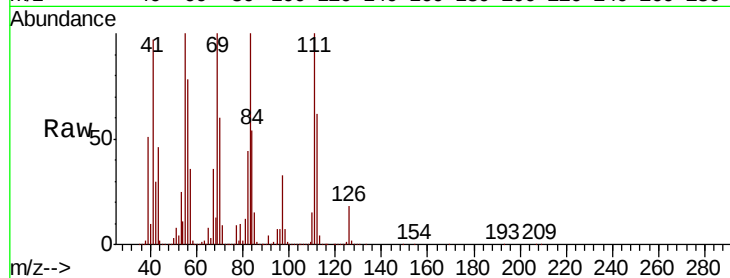
ClientSampleId :

Tot Ion:107 Resp: 28857

Ion Ratio Lower Upper

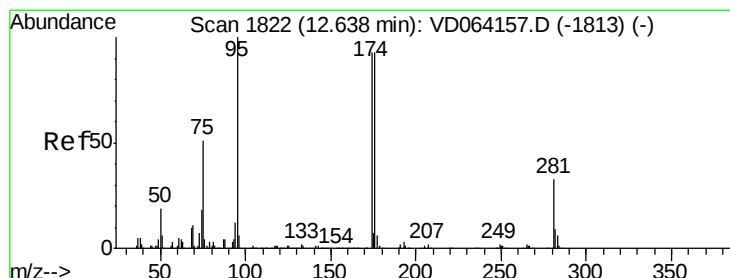
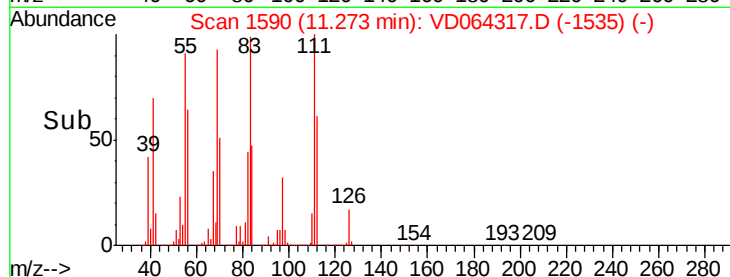
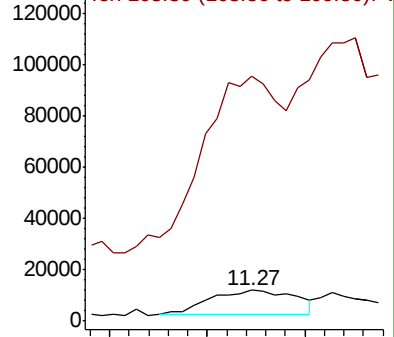
107 100

109 678.9 75.1 112.7#



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 1561.376 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.13 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

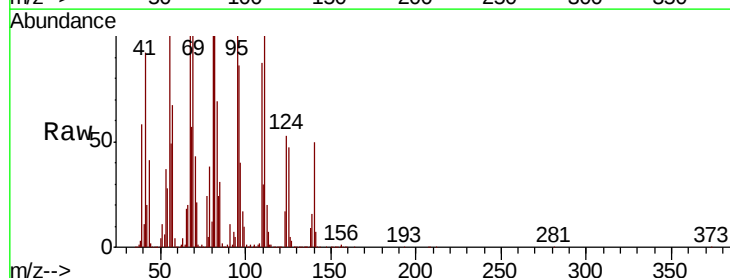
Tgt Ion: 95 Resp:17533036

Ion Ratio Lower Upper

95 100

174 0.0 0.0 183.6

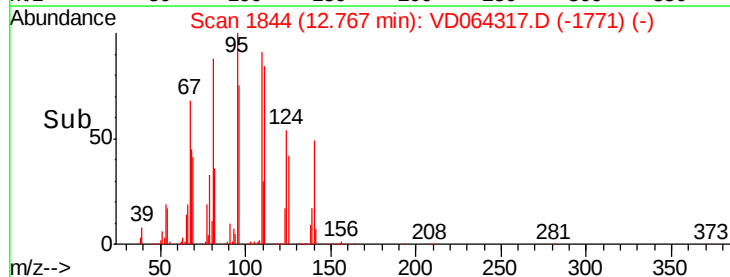
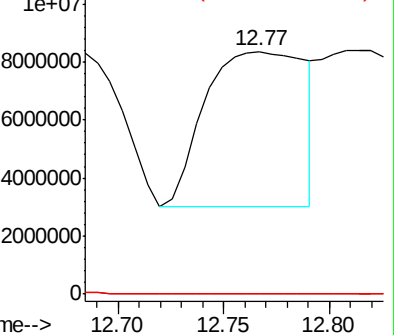
176 0.0 0.0 180.2

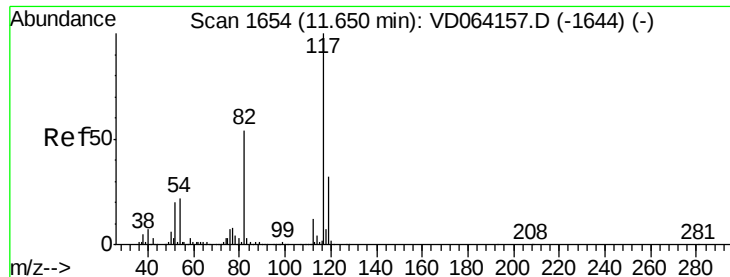


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

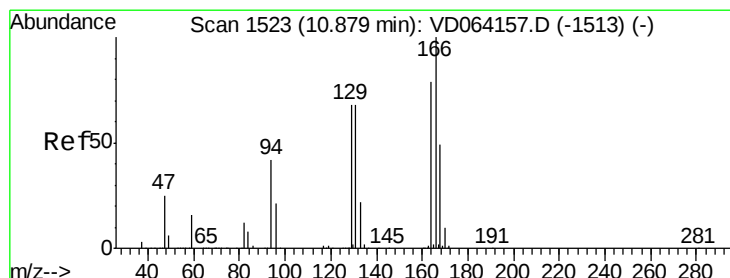
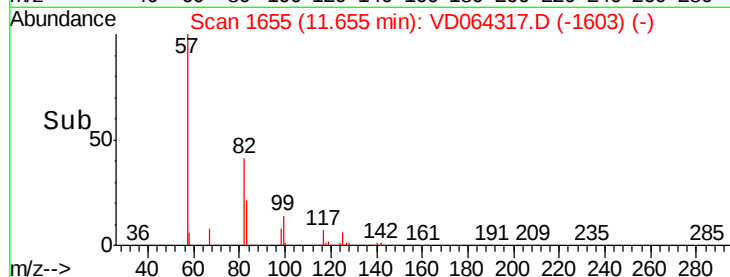
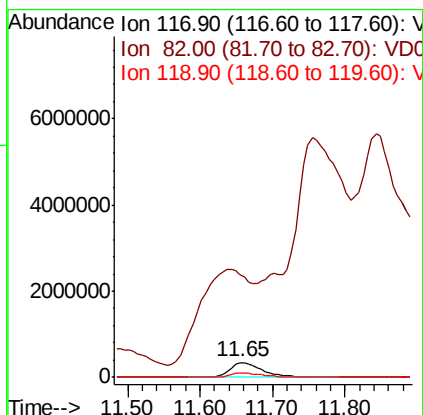
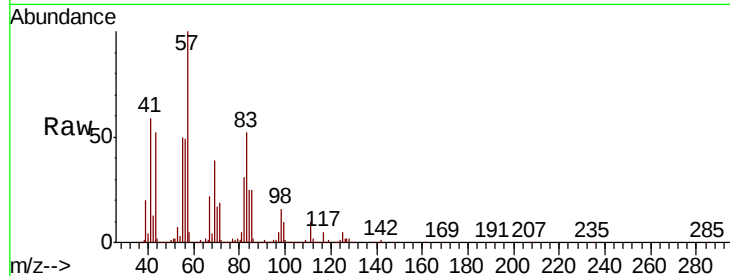




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1655
Delta R.T. 0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

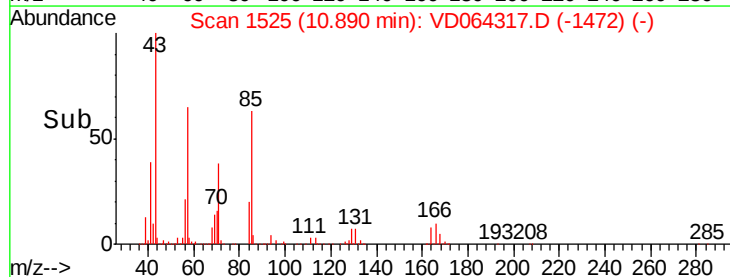
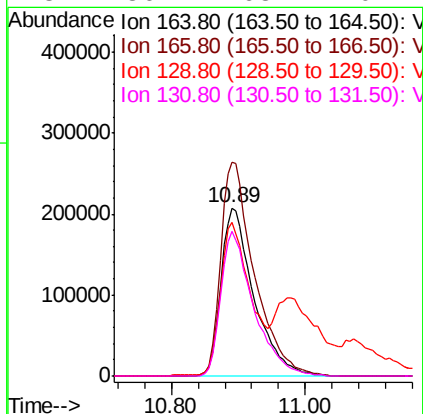
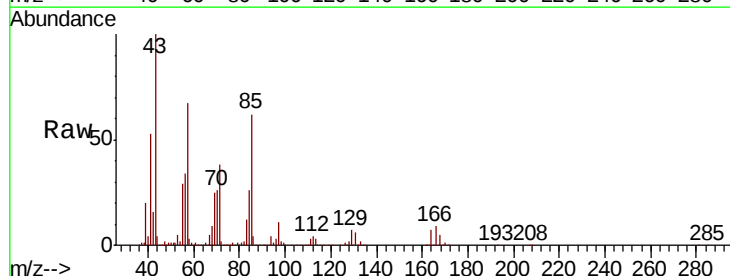
Instrument :
MSVOA_D
ClientSampleId :

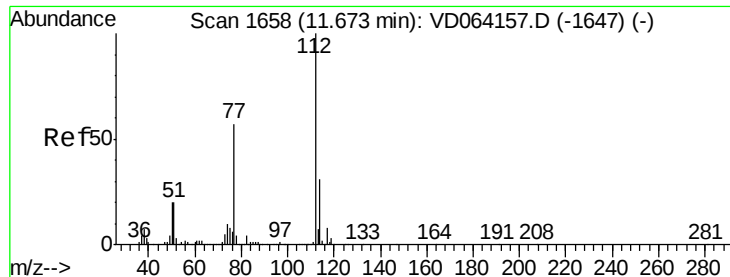
Tot Ion:117 Resp: 1068688
Ion Ratio Lower Upper
117 100
82 395.5 42.8 64.2#
119 32.3 25.6 38.4



#64
Tetrachloroethene
Concen: 87.349 ug/l
RT: 10.89 min Scan# 1525
Delta R.T. 0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion:164 Resp: 717935
Ion Ratio Lower Upper
164 100
166 126.9 100.8 151.2
129 90.6 68.7 103.1
131 86.1 68.1 102.1

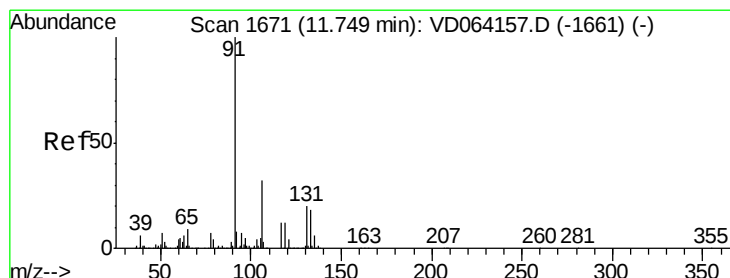
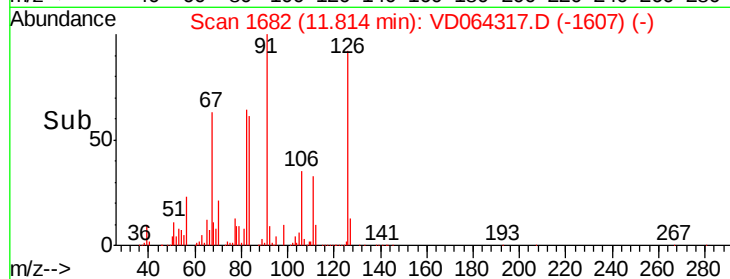
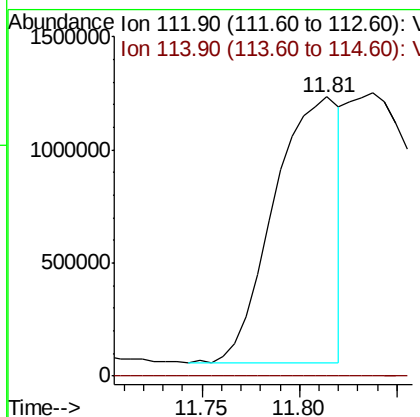
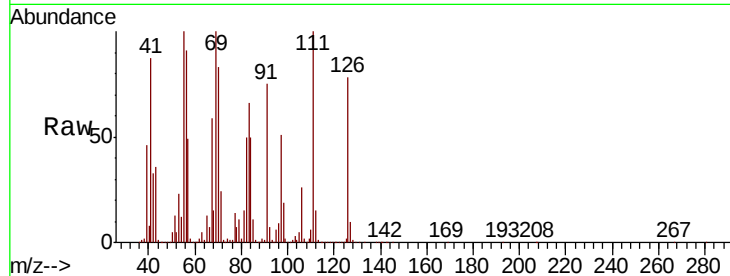




#65
Chlorobenzene
Concen: 125.025 ug/l
RT: 11.81 min Scan# 1682
Delta R.T. 0.14 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

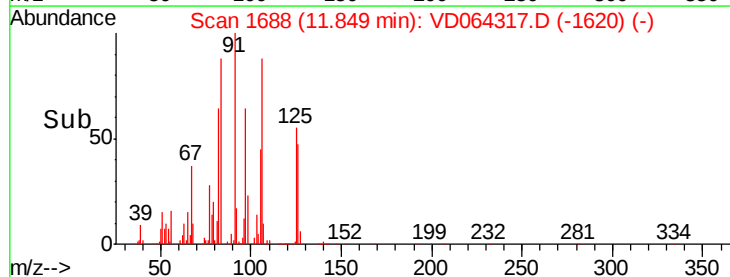
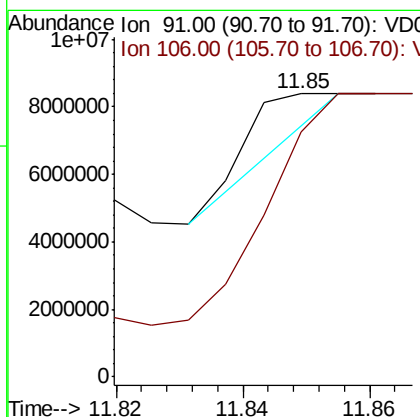
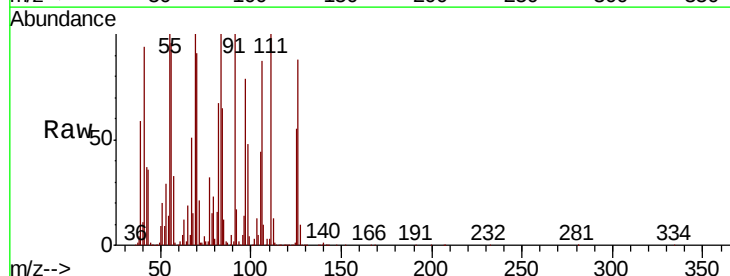
Instrument :
MSVOA_D
ClientSampleId :

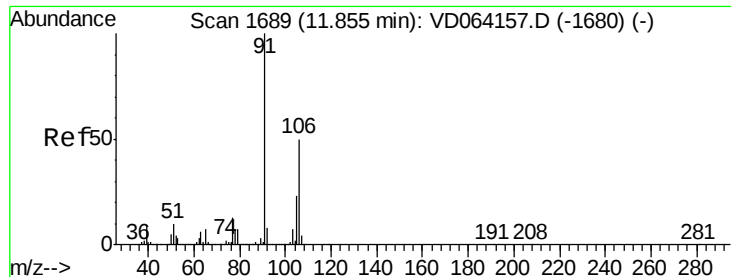
Tot Ion:112 Resp: 2717025
Ion Ratio Lower Upper
112 100
114 0.1 25.2 37.8#



#67
Ethyl Benzene
Concen: 43.642 ug/l
RT: 11.85 min Scan# 1688
Delta R.T. 0.10 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion: 91 Resp: 1715546
Ion Ratio Lower Upper
91 100
106 144.6 25.5 38.3#

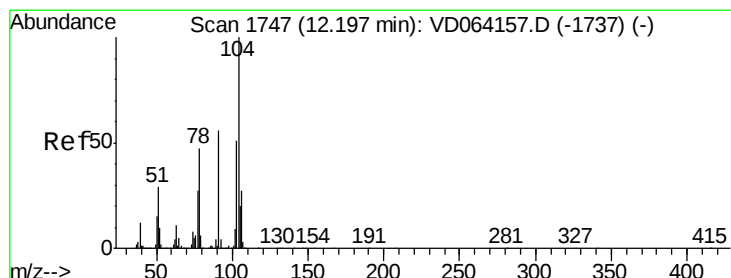
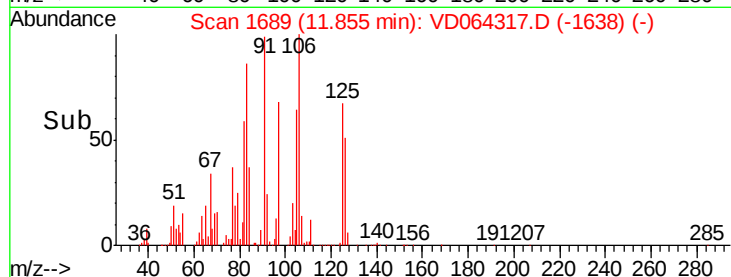
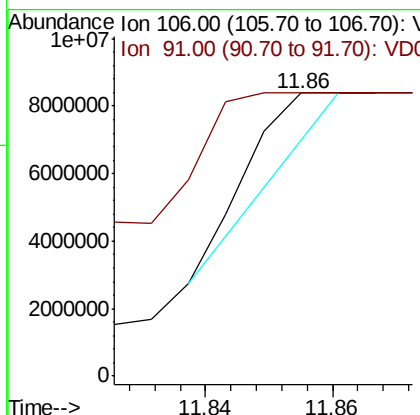
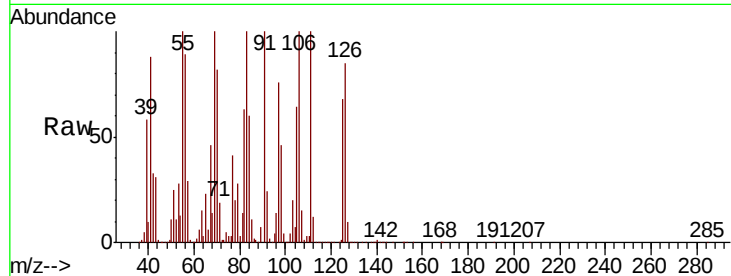




#68
m/p-Xylenes
Concen: 182.403 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. -0.00 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

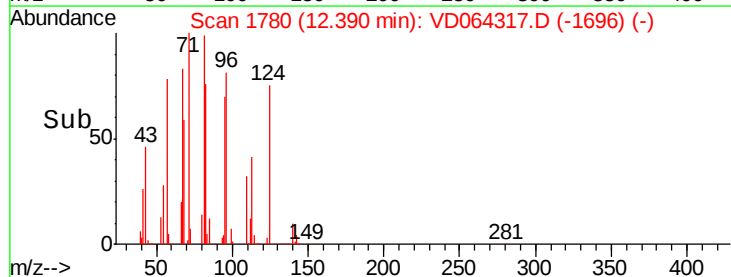
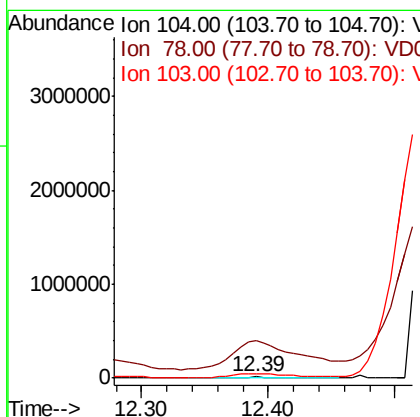
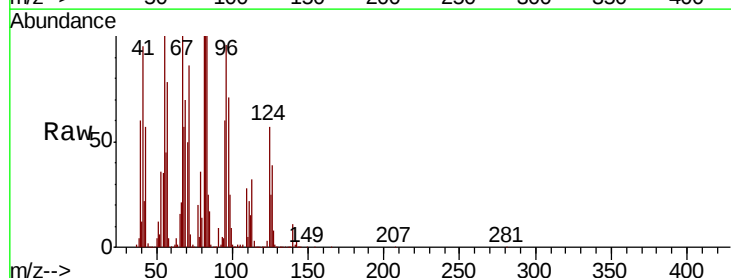
Instrument :
MSVOA_D
ClientSampled :

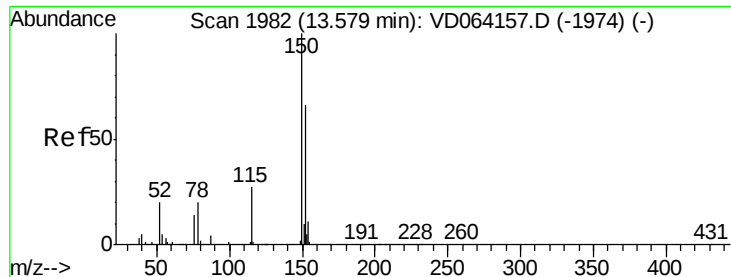
Tot Ion:106 Resp: 2748312
Ion Ratio Lower Upper
106 100
91 62.4 160.3 240.5#



#70
Styrene
Concen: 1.469 ug/l
RT: 12.39 min Scan# 1780
Delta R.T. 0.19 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion:104 Resp: 35834
Ion Ratio Lower Upper
104 100
78 3020.9 39.9 59.9#
103 327.5 43.4 65.0#



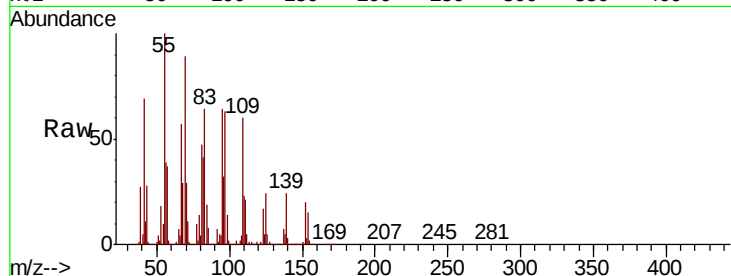


#72

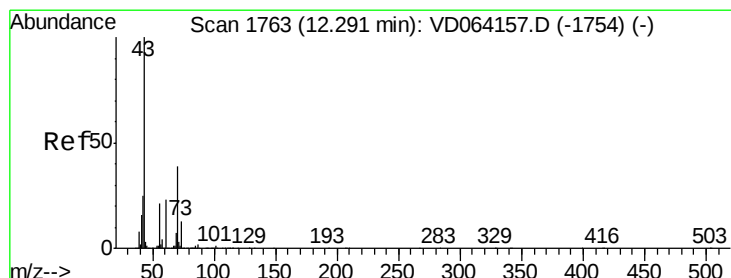
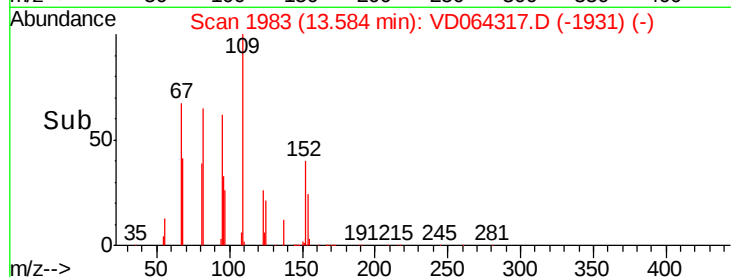
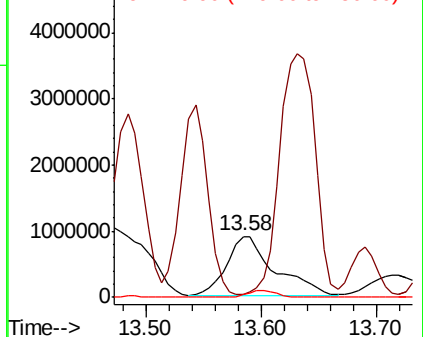
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion:152 Resp: 2566338
Ion Ratio Lower Upper
152 100
115 0.0 27.4 82.2#
150 7.2 0.0 351.6



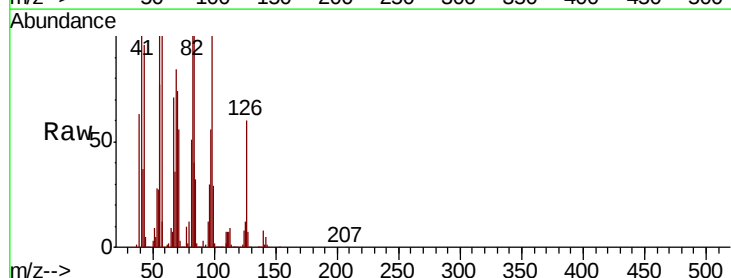
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



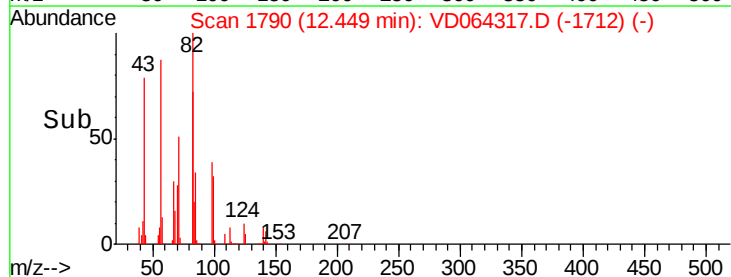
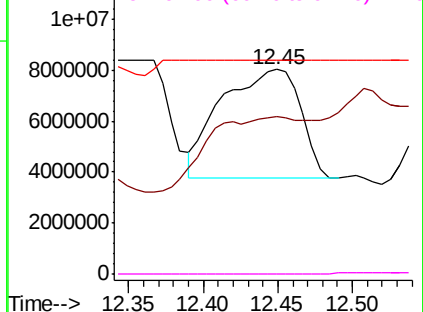
#74

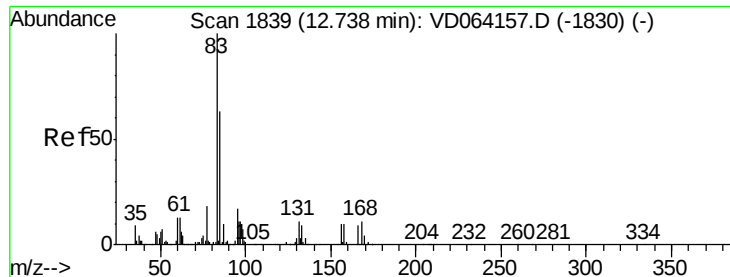
N-ethyl acetate
Concen: 353.252 ug/l
RT: 12.45 min Scan# 1790
Delta R.T. 0.16 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion: 43 Resp:15713552
Ion Ratio Lower Upper
43 100
70 81.2 32.4 48.6#
55 0.0 17.9 26.9#
61 0.0 19.0 28.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 70.00 (69.70 to 70.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 61.00 (60.70 to 61.70): VDC





#75

1,1,2,2-Tetrachloroethane

Concen: 324.805 ug/l

RT: 12.77 min Scan# 1844

Delta R.T. 0.03 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampled :

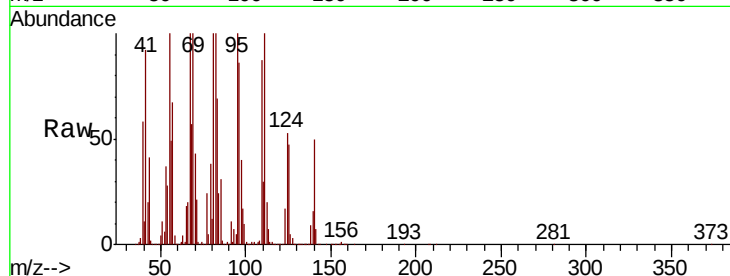
Tot Ion: 83 Resp: 9219178

Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.7#

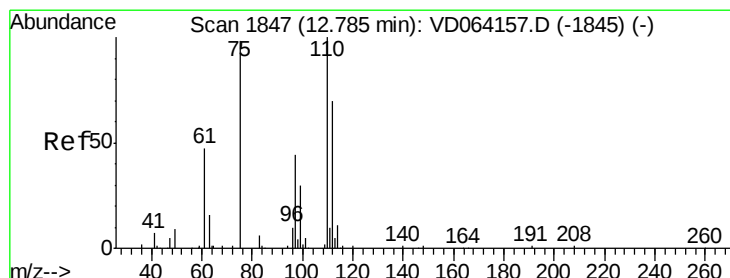
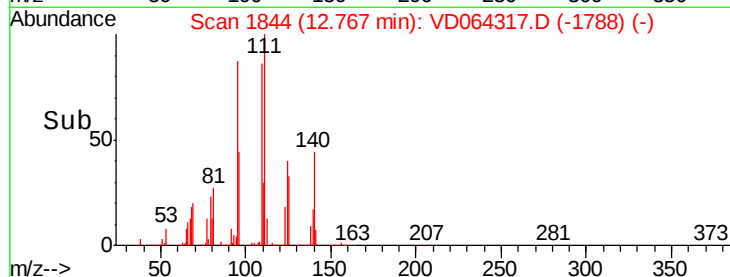
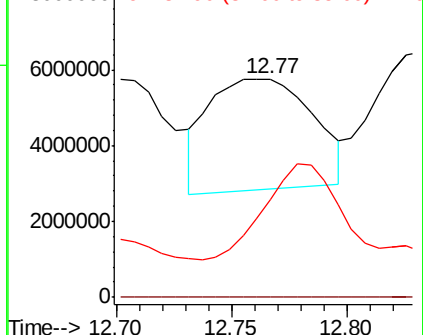
85 126.0 32.5 97.5#



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: 3.631 ug/l

RT: 12.76 min Scan# 1843

Delta R.T. -0.02 min

Lab File: VD064317.D

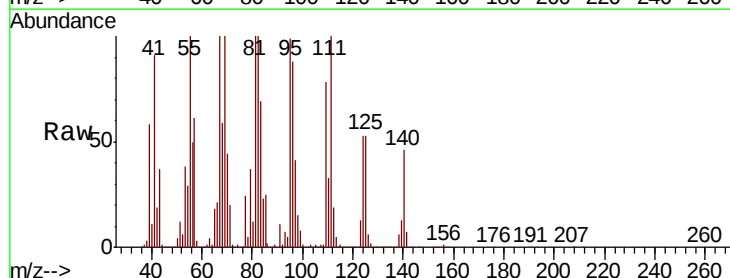
Acq: 20 Nov 2019 17:13

Tgt Ion: 75 Resp: 75053

Ion Ratio Lower Upper

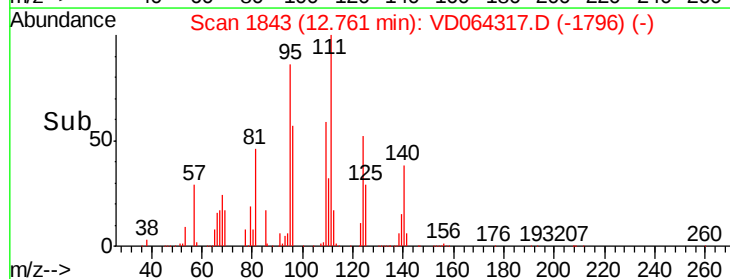
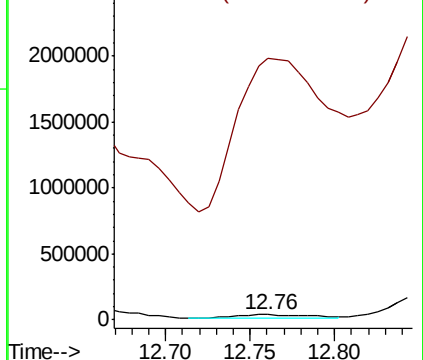
75 100

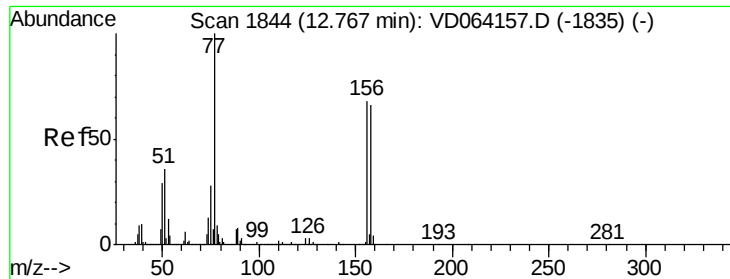
77 5735.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC





#77

Bromobenzene

Concen: 6.822 ug/l

RT: 12.78 min Scan# 1846

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampled :

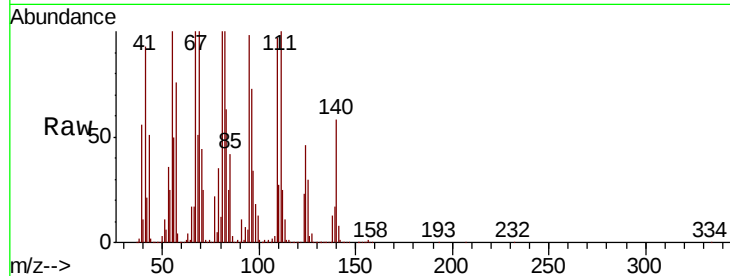
Tot Ion:156 Resp: 312213

Ion Ratio Lower Upper

156 100

77 1378.8 81.2 243.4#

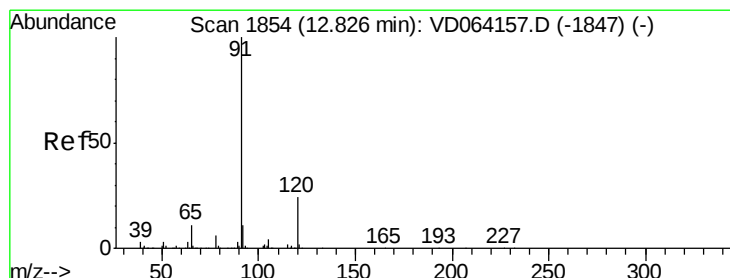
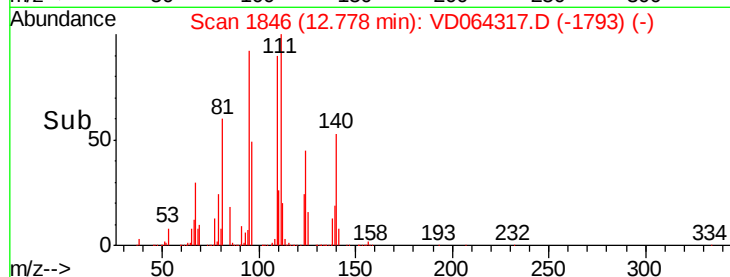
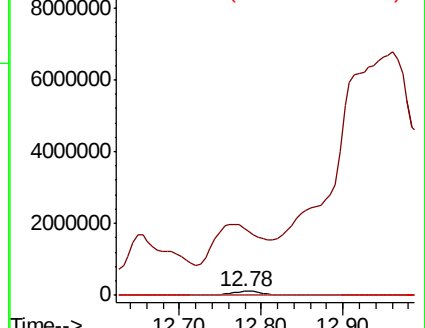
158 1.1 48.4 145.2#



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: 8.002 ug/l

RT: 12.77 min Scan# 1845

Delta R.T. -0.05 min

Lab File: VD064317.D

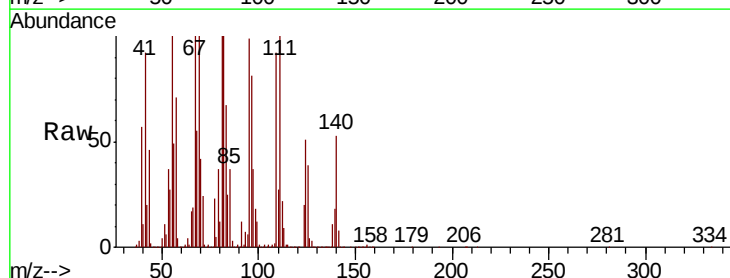
Acq: 20 Nov 2019 17:13

Tgt Ion: 91 Resp: 1722143

Ion Ratio Lower Upper

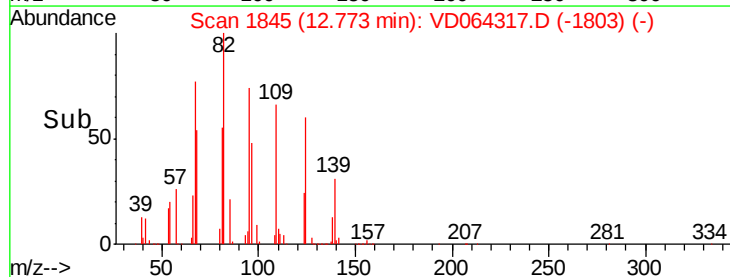
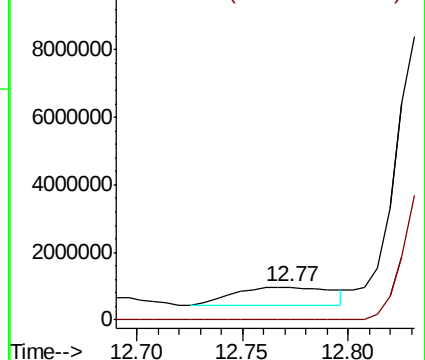
91 100

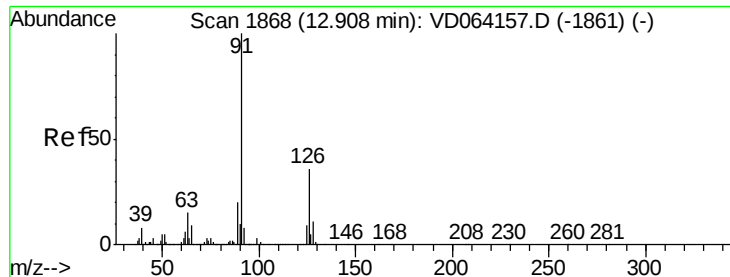
120 0.0 11.8 35.4#



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.00 (119.70 to 120.70): V

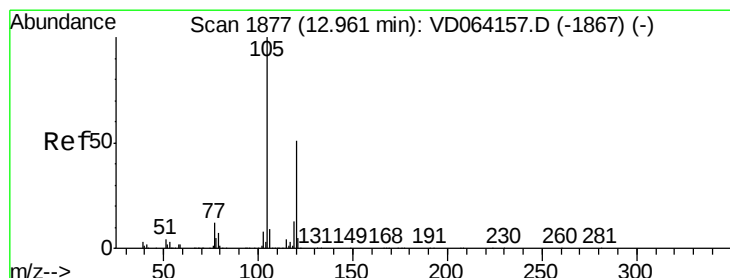
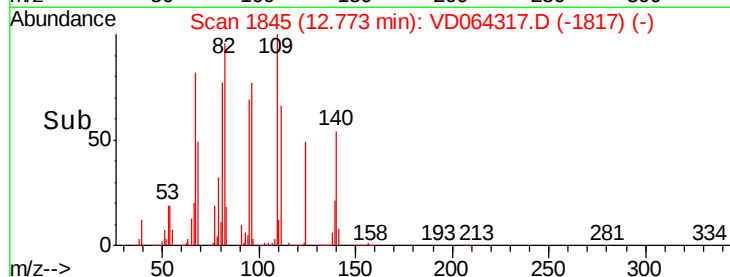
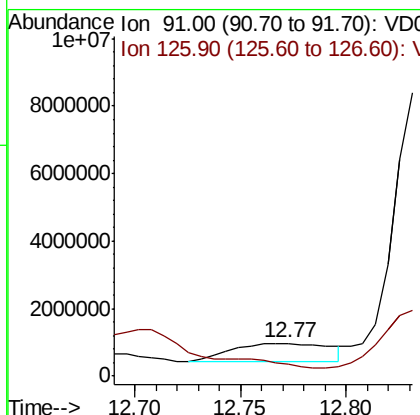
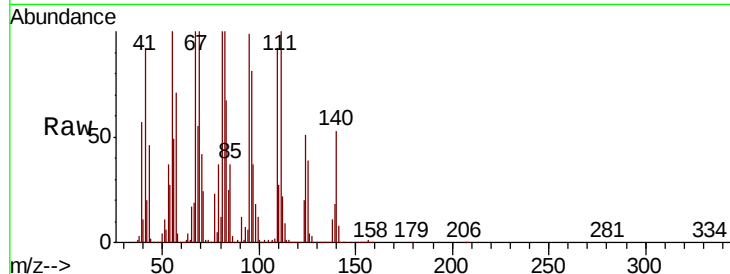




#79
2-Chlorotoluene
Concen: 14.173 ug/l
RT: 12.77 min Scan# 1845
Delta R.T. -0.14 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

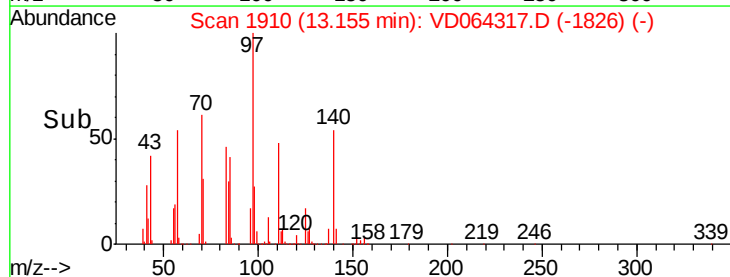
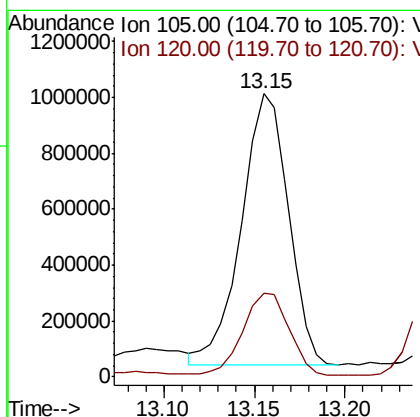
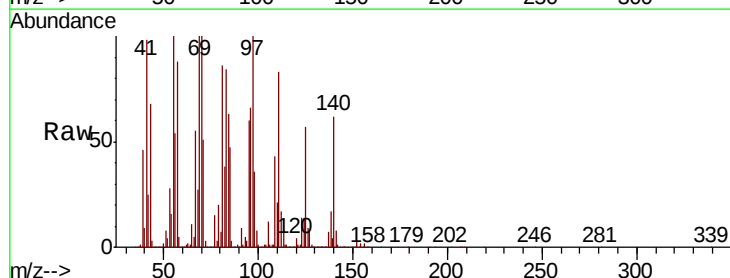
Instrument :
MSVOA_D
ClientSampleId :

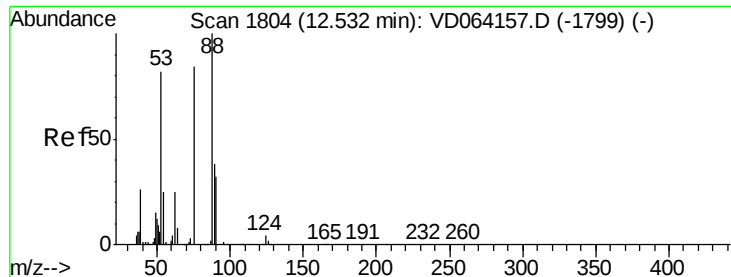
Tot Ion: 91 Resp: 1722143
Ion Ratio Lower Upper
91 100
126 0.0 17.7 53.1#



#80
1,3,5-Trimethylbenzene
Concen: 11.357 ug/l
RT: 13.15 min Scan# 1910
Delta R.T. 0.19 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion:105 Resp: 1757819
Ion Ratio Lower Upper
105 100
120 30.1 25.4 76.4

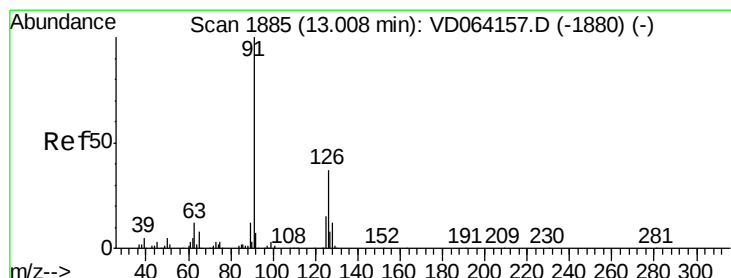
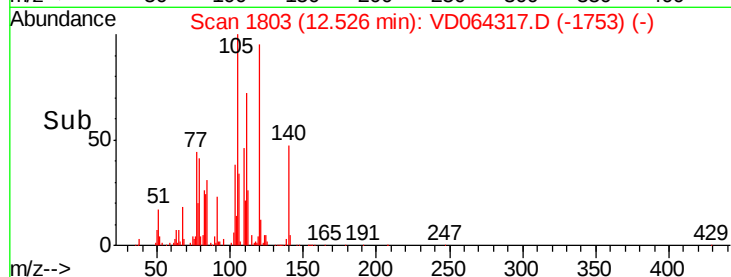
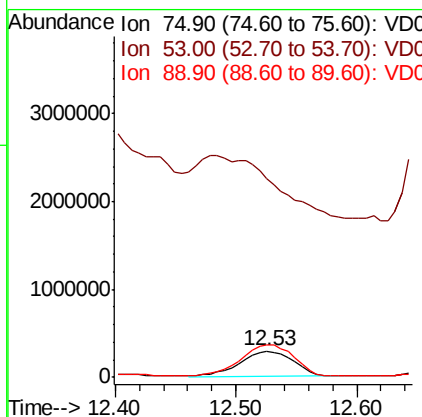
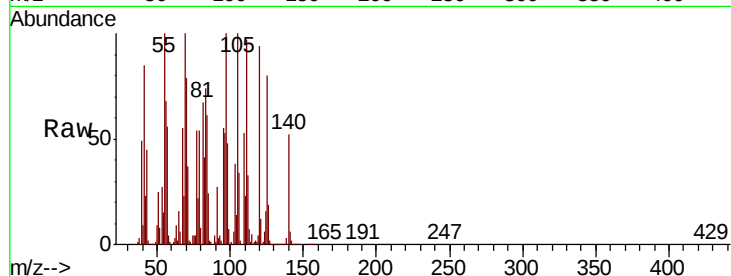




#81
trans-1,4-Dichloro-2-butene
Concen: 83.988 ug/l
RT: 12.53 min Scan# 1803
Delta R.T. -0.01 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

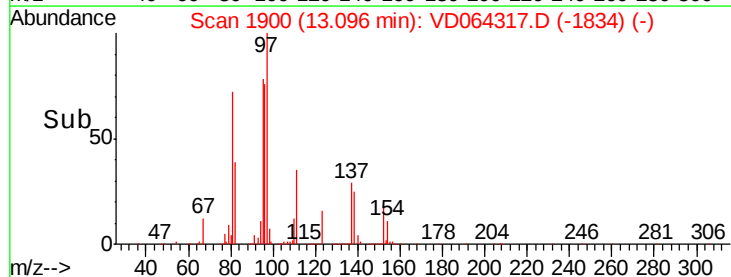
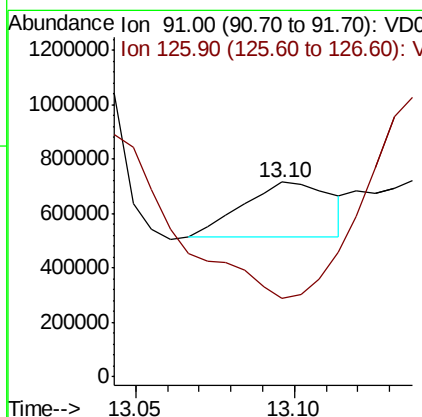
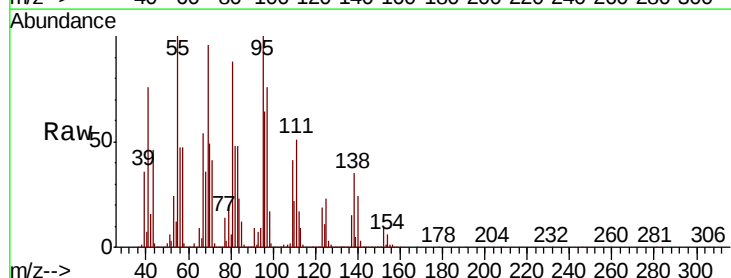
Instrument :
MSVOA_D
ClientSampleId :

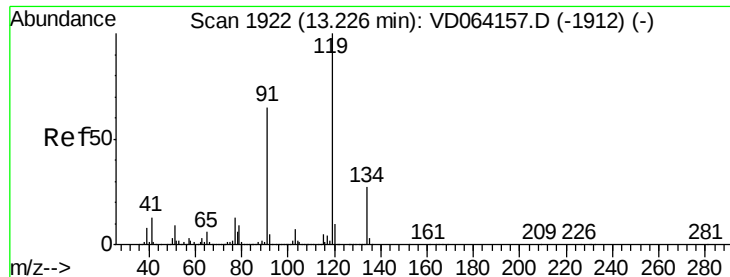
Tot Ion: 75 Resp: 874012
Ion Ratio Lower Upper
75 100
53 0.0 79.4 119.0#
89 125.5 36.6 55.0#



#82
4-Chlorotoluene
Concen: 3.099 ug/l
RT: 13.10 min Scan# 1900
Delta R.T. 0.09 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Tgt Ion: 91 Resp: 392691
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.4#





#83

tert-Butylbenzene

Concen: 230.814 ug/l

RT: 13.28 min Scan# 1932

Delta R.T. 0.06 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

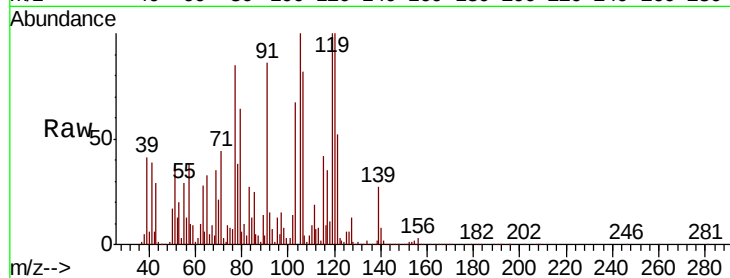
Tot Ion:119 Resp:31502423

Ion Ratio Lower Upper

119 100

91 113.3 31.8 95.4#

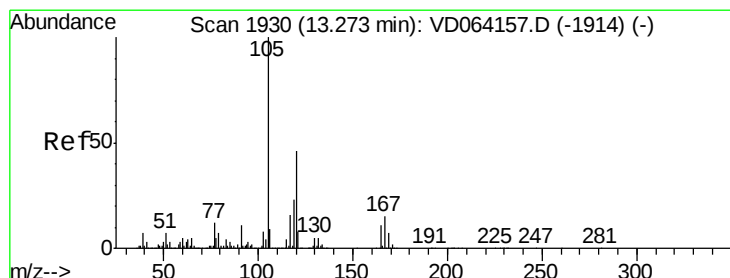
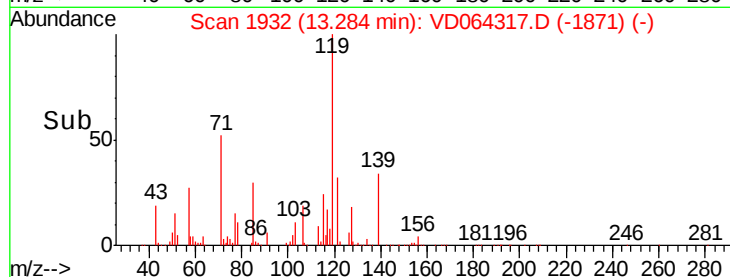
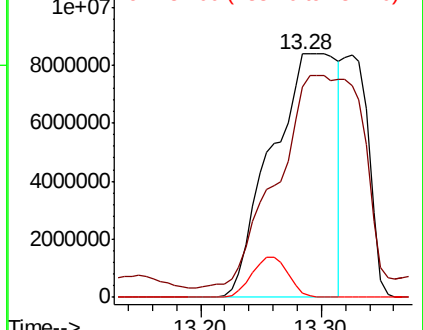
134 0.0 13.7 41.0#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 11.503 ug/l

RT: 13.15 min Scan# 1910

Delta R.T. -0.12 min

Lab File: VD064317.D

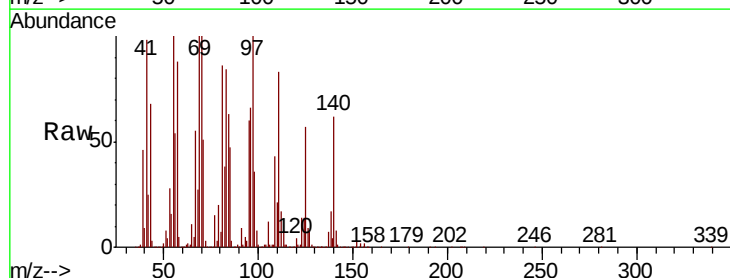
Acq: 20 Nov 2019 17:13

Tgt Ion:105 Resp: 1757819

Ion Ratio Lower Upper

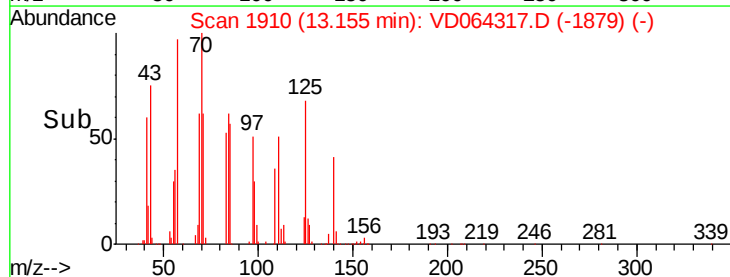
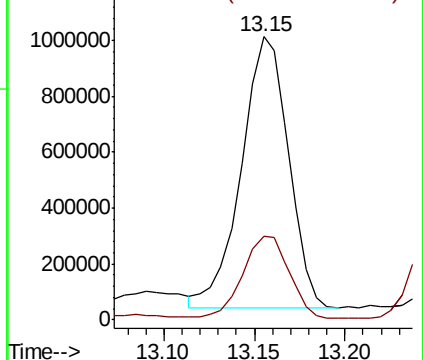
105 100

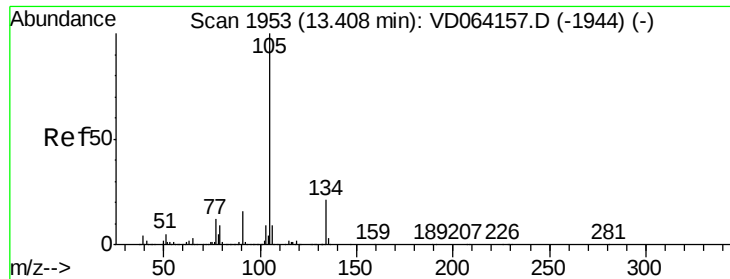
120 30.1 23.3 69.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

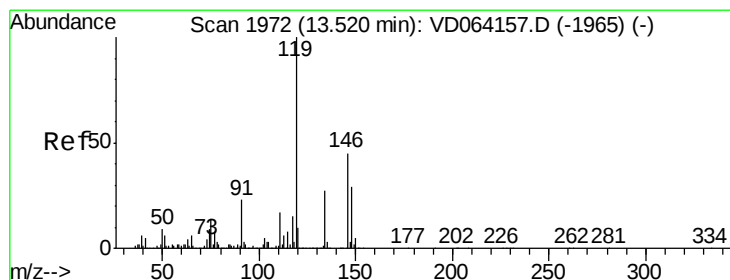
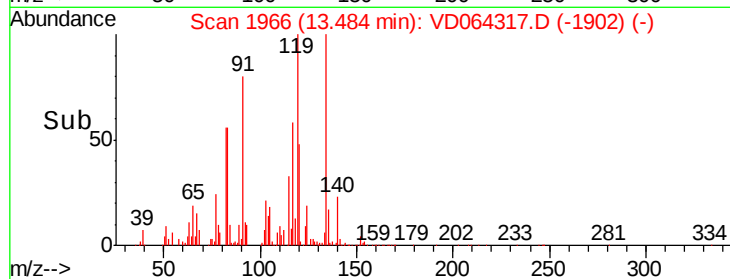
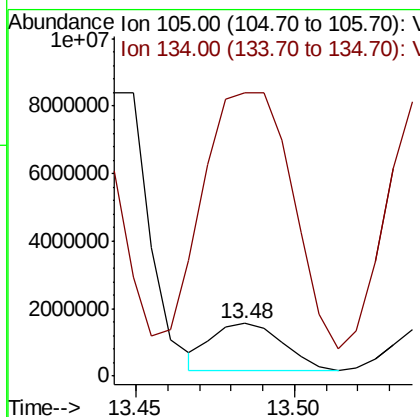
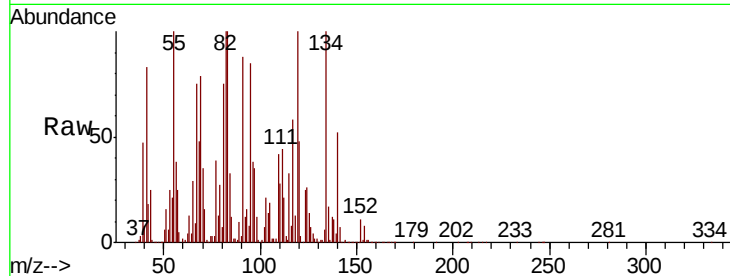




#85
 sec-Butylbenzene
 Concen: 12.035 ug/l
 RT: 13.48 min Scan# 1966
 Delta R.T. 0.08 min
 Lab File: VD064317.D
 Acq: 20 Nov 2019 17:13

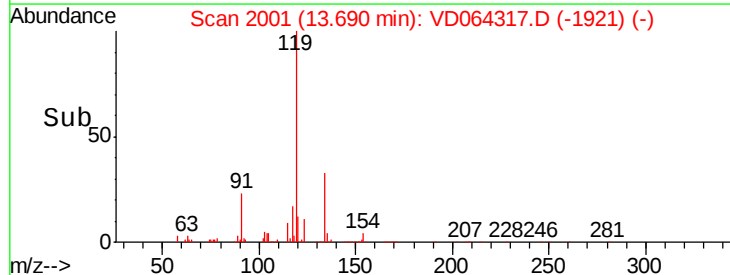
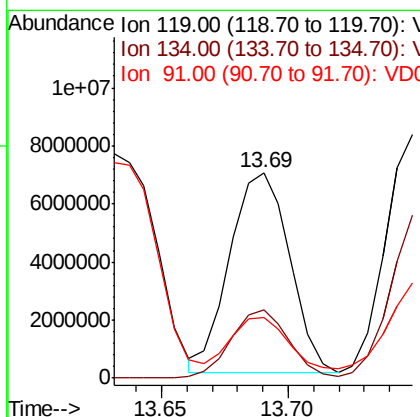
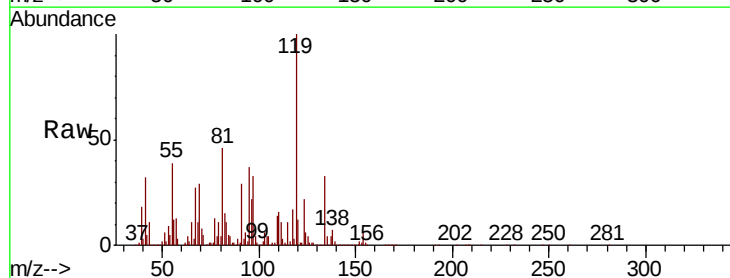
Instrument :
 MSVOA_D
 ClientSampleId :

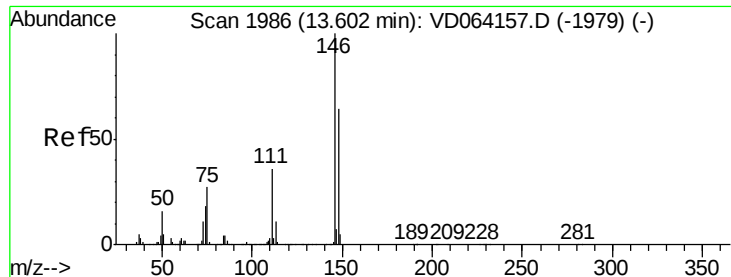
Tot Ion:105 Resp: 2206199
 Ion Ratio Lower Upper
 105 100
 134 799.3 10.7 31.9#



#86
 p-Isopropyltoluene
 Concen: 65.063 ug/l
 RT: 13.69 min Scan# 2001
 Delta R.T. 0.17 min
 Lab File: VD064317.D
 Acq: 20 Nov 2019 17:13

Tgt Ion:119 Resp:11338717
 Ion Ratio Lower Upper
 119 100
 134 32.9 13.5 40.5
 91 22.8 11.5 34.4





#88

1,4-Dichlorobenzene

Concen: 1.369 ug/l

RT: 13.62 min Scan# 1989

Delta R.T. 0.02 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

ClientSampleId :

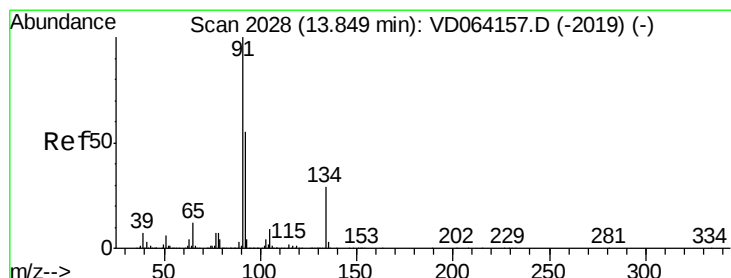
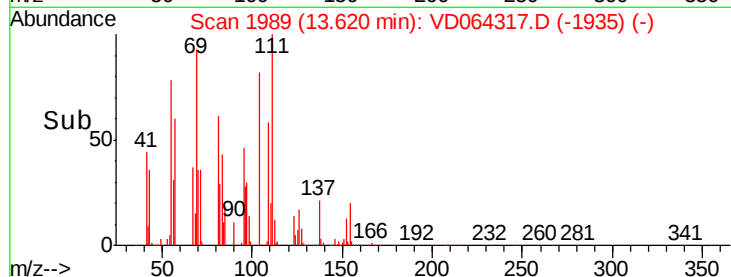
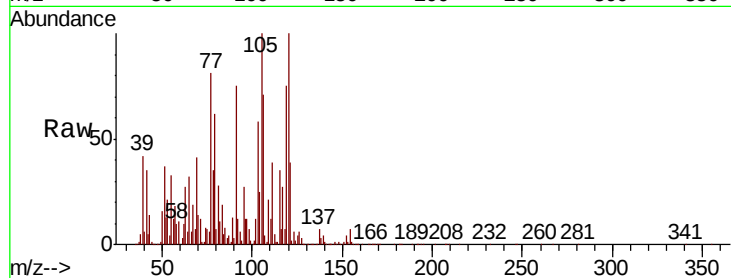
Tot Ion:146 Resp: 113490

Ion Ratio Lower Upper

146 100

111 4086.5 18.1 54.4#

148 62.3 31.9 95.7



#89

n-Butylbenzene

Concen: 166.962 ug/l

RT: 13.85 min Scan# 2028

Delta R.T. -0.00 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

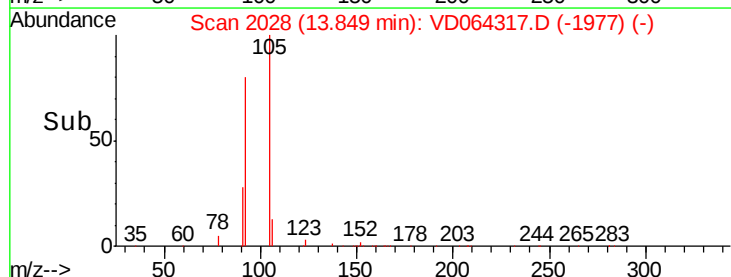
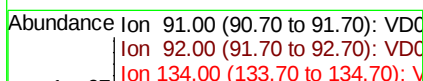
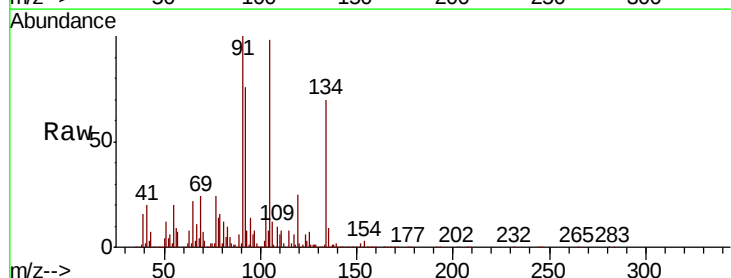
Tgt Ion: 91 Resp:26287430

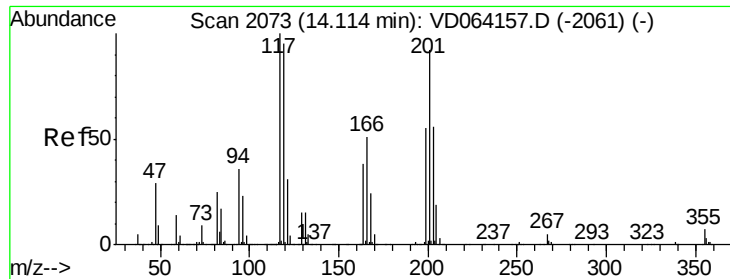
Ion Ratio Lower Upper

91 100

92 52.6 27.3 81.8

134 0.0 14.1 42.4#





#90

Hexachloroethane

Concen: 65.276 ug/l

RT: 14.13 min Scan# 2075

Delta R.T. 0.01 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

Instrument :

MSVOA_D

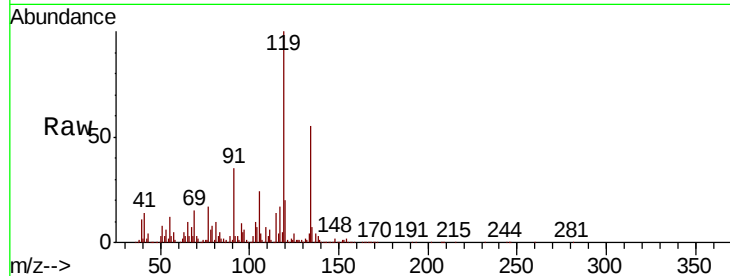
ClientSampled :

Tot Ion:117 Resp: 2102366

Ion Ratio Lower Upper

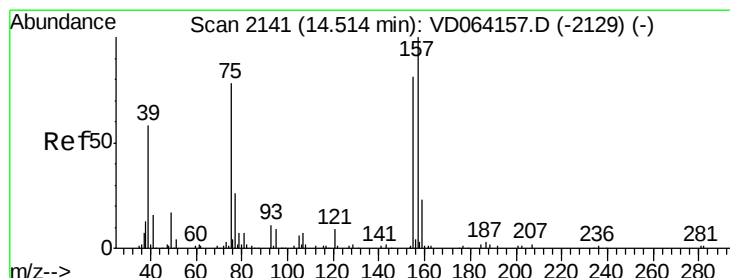
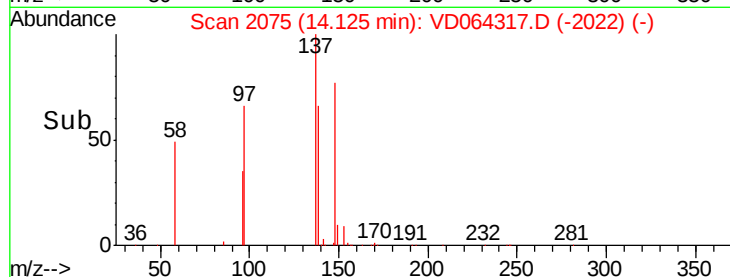
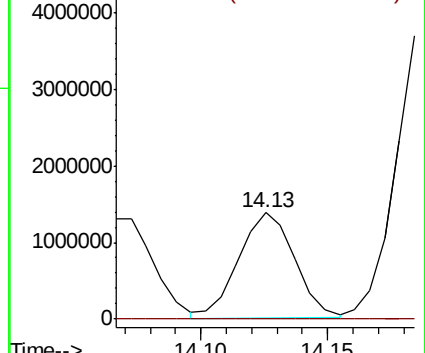
117 100

201 0.0 45.8 137.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 4.691 ug/l

RT: 14.48 min Scan# 2136

Delta R.T. -0.03 min

Lab File: VD064317.D

Acq: 20 Nov 2019 17:13

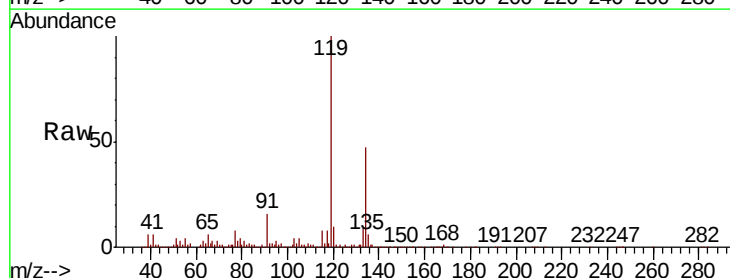
Tgt Ion: 75 Resp: 23805

Ion Ratio Lower Upper

75 100

155 0.0 48.0 144.0#

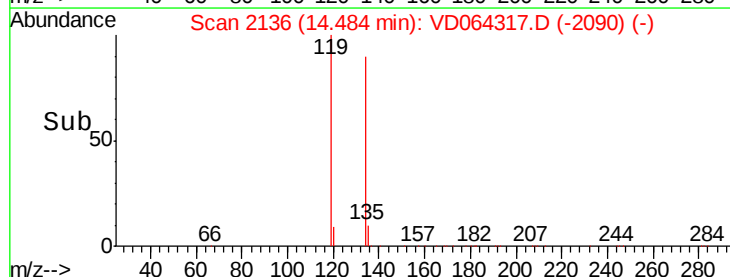
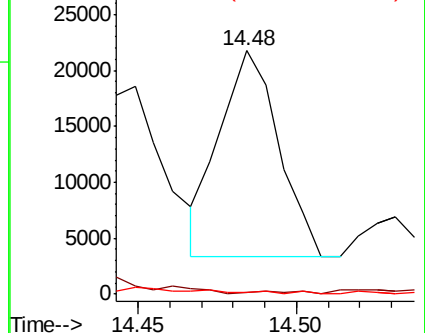
157 0.0 61.5 184.4#

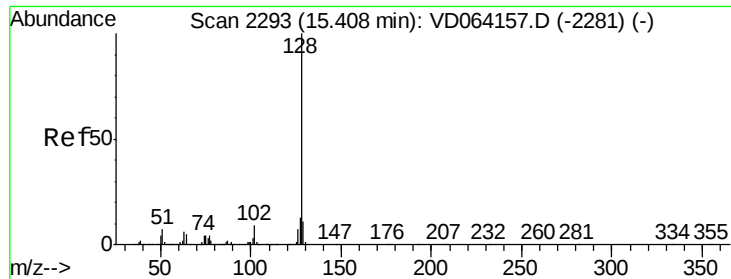


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

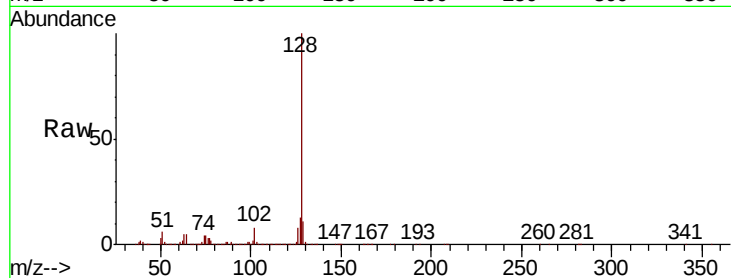




#95
Naphthalene
Concen: 22.650 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. -0.00 min
Lab File: VD064317.D
Acq: 20 Nov 2019 17:13

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.5	15.7
129	11.1	8.6	13.0



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

