

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022020\
 Data File : VD065253.D
 Acq On : 20 Feb 2020 13:35
 Operator : VA/SY
 Sample : L1601-05
 Misc : 5.68G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SW-4

Quant Time: Feb 21 04:37:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D021820S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 19 03:26:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	663563	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1063830	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	937636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	412912	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	293506	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
35) Dibromofluoromethane	7.92	113	313052	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	
50) Toluene-d8	10.34	98	1268965	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	12.64	95	393367	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	

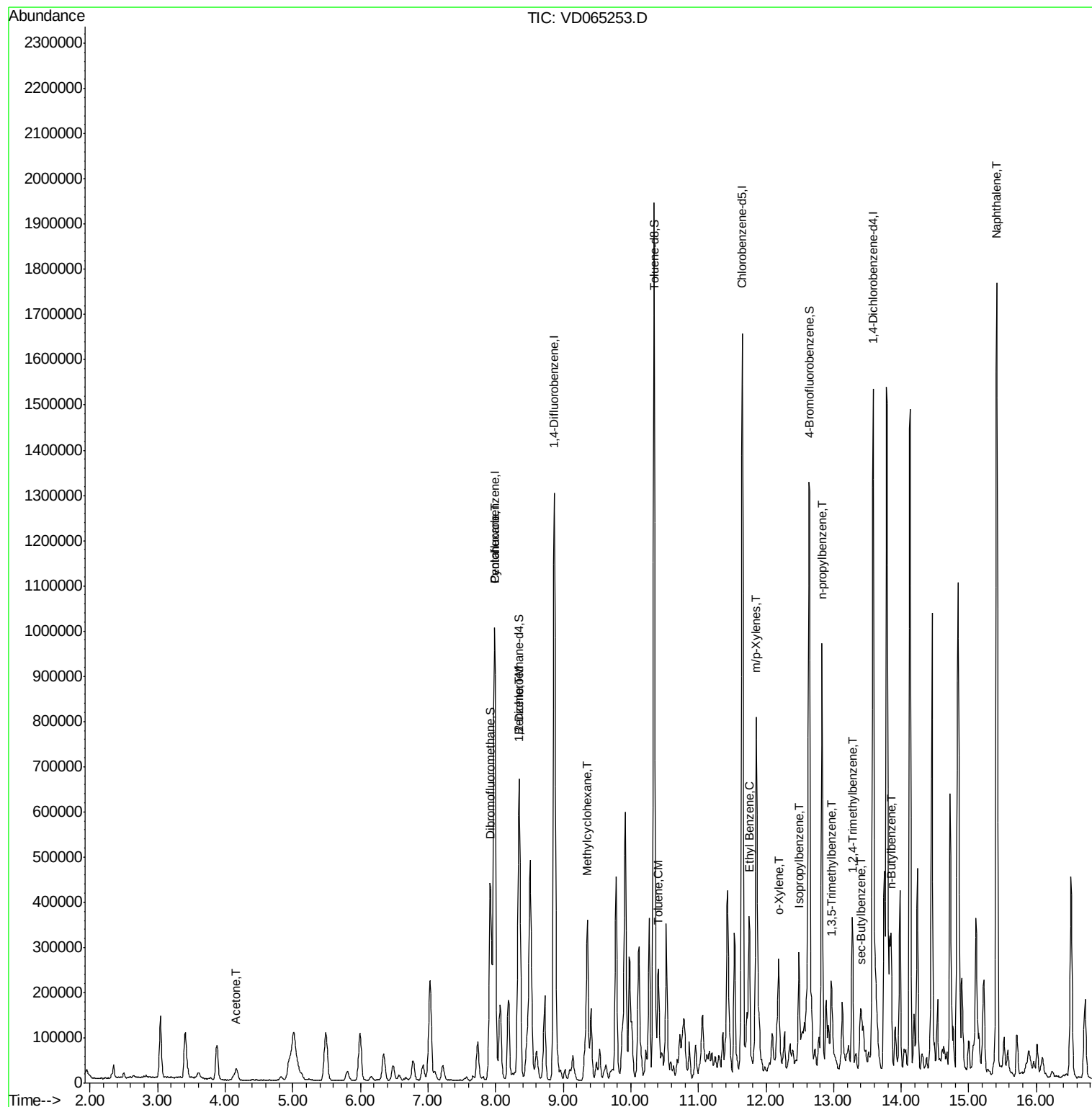
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	4.17	43	48807	33.447	ug/l	96
31) Cyclohexane	7.99	56	111144	9.469	ug/l #	88
39) Methylcyclohexane	9.36	83	93349	7.671	ug/l	92
40) Benzene	8.36	78	432913	14.817	ug/l	98
52) Toluene	10.41	92	98078	5.423	ug/l	98
67) Ethyl Benzene	11.75	91	213646	6.483	ug/l	99
68) m/p-Xylenes	11.86	106	237724	18.855	ug/l	99
69) o-Xylene	12.19	106	64164	5.744	ug/l	98
73) Isopropylbenzene	12.48	105	163045	5.964	ug/l	98
78) n-propylbenzene	12.83	91	718944	21.885	ug/l	100
80) 1,3,5-Trimethylbenzene	12.97	105	74295	3.300	ug/l	99
84) 1,2,4-Trimethylbenzene	13.28	105	181564	8.057	ug/l	98
85) sec-Butylbenzene	13.41	105	69667	2.562	ug/l #	52
89) n-Butylbenzene	13.86	91	170426	7.438	ug/l #	78
95) Naphthalene	15.41	128	1533414	127.976	ug/l	100

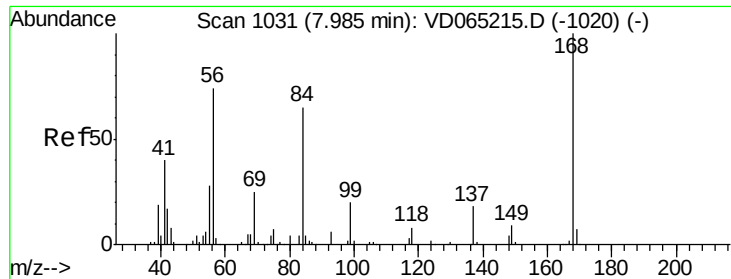
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065253.D

Acq: 20 Feb 2020 13:35

Instrument :

MSVOA_D

ClientSampleId :

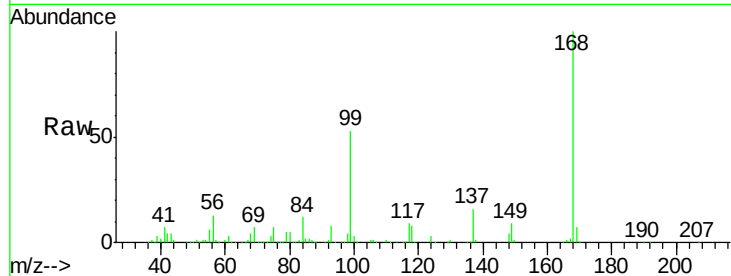
SW-4

Tot Ion:168 Resp: 663563

Ion Ratio Lower Upper

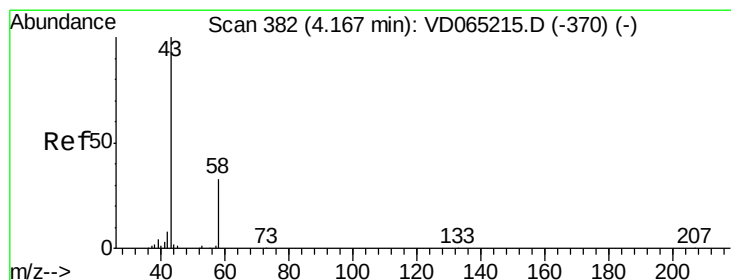
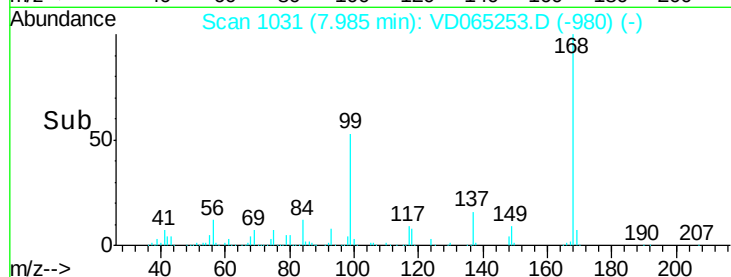
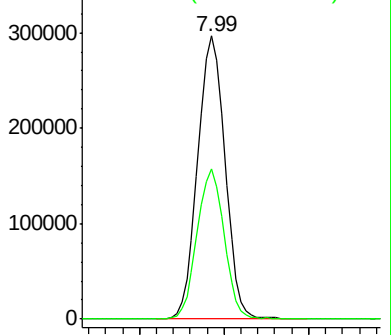
168 100

99 53.1 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#16

Acetone

Concen: 33.447 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD065253.D

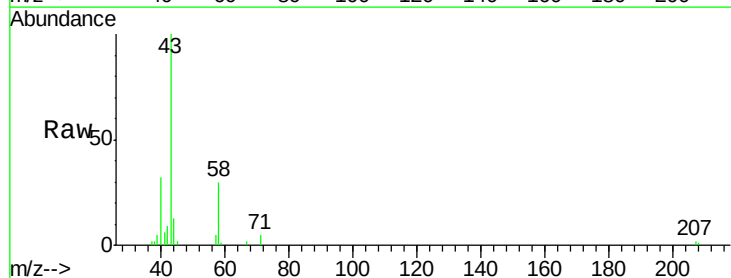
Acq: 20 Feb 2020 13:35

Tgt Ion: 43 Resp: 48807

Ion Ratio Lower Upper

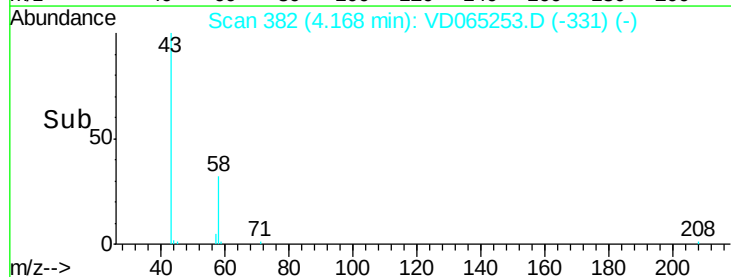
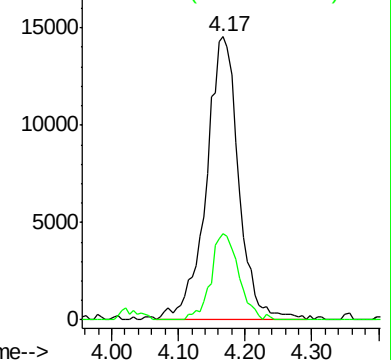
43 100

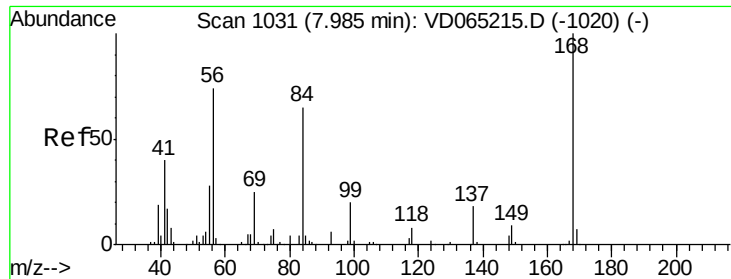
58 30.3 26.2 39.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

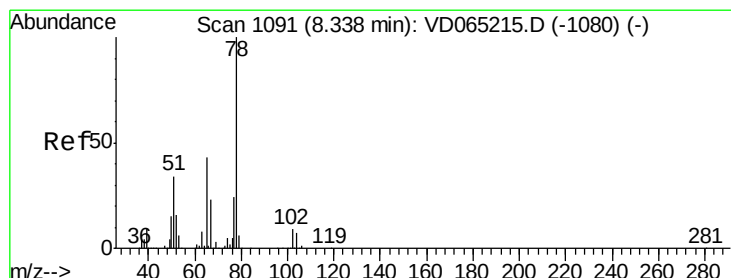
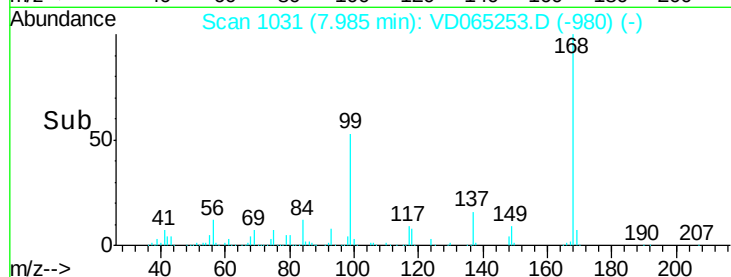
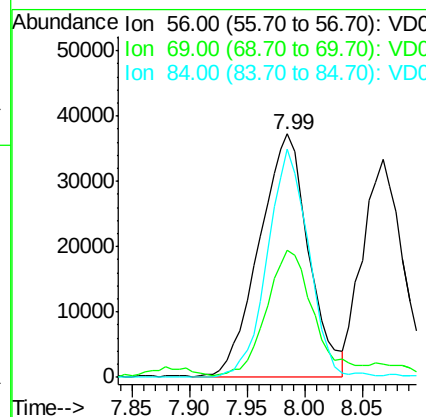
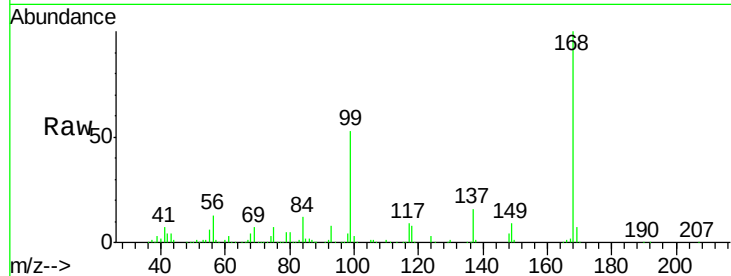




#31
Cyclohexane
Concen: 9.469 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

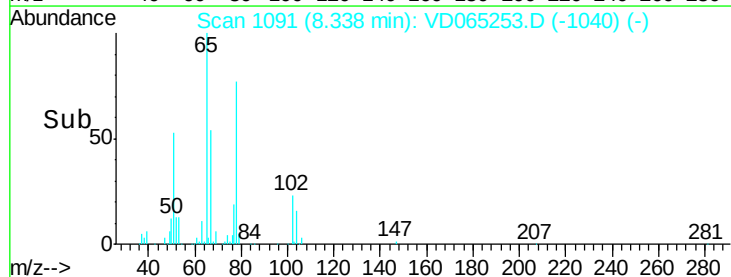
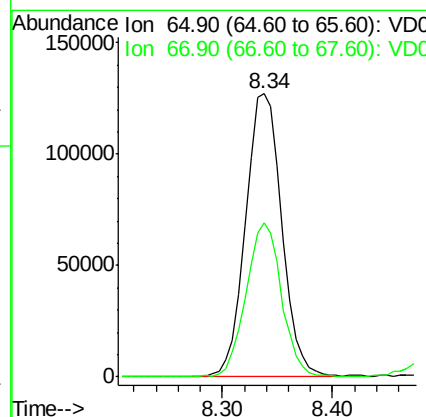
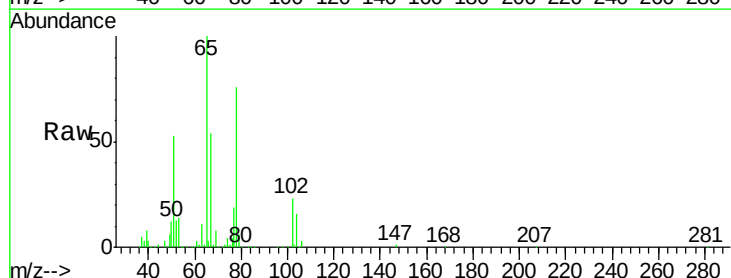
Instrument :
MSVOA_D
ClientSampled :
SW-4

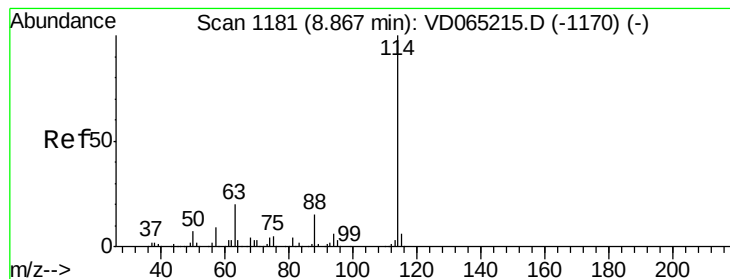
Tot Ion: 56 Resp: 111144
Ion Ratio Lower Upper
56 100
69 50.0 27.4 41.0#
84 93.9 71.1 106.7



#33
1,2-Dichloroethane-d4
Concen: 49.168 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

Tgt Ion: 65 Resp: 293506
Ion Ratio Lower Upper
65 100
67 52.9 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065253.D

Acq: 20 Feb 2020 13:35

Instrument :

MSVOA_D

ClientSampleId :

SW-4

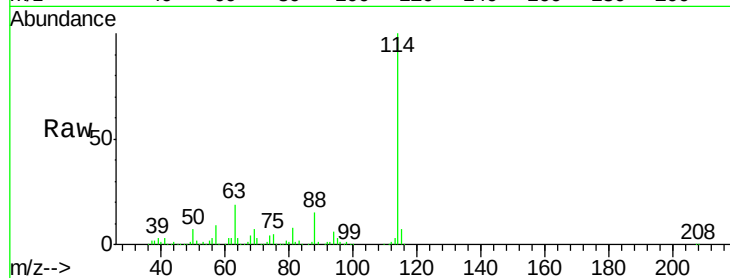
Tot Ion:114 Resp: 1063830

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.4

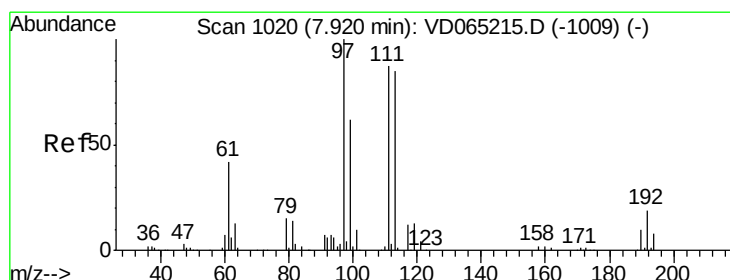
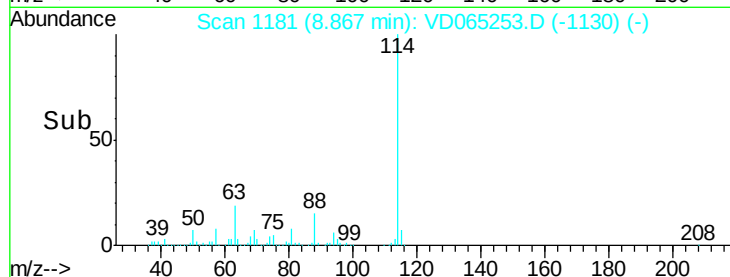
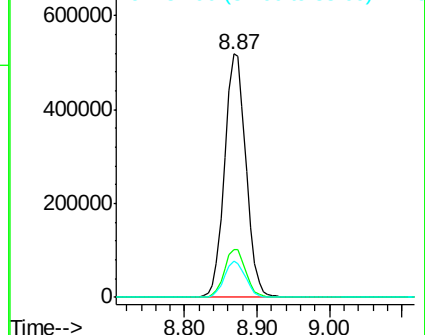
88 14.7 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 48.261 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065253.D

Acq: 20 Feb 2020 13:35

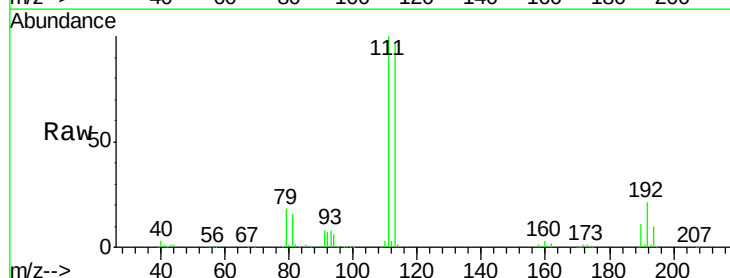
Tgt Ion:113 Resp: 313052

Ion Ratio Lower Upper

113 100

111 102.1 82.9 124.3

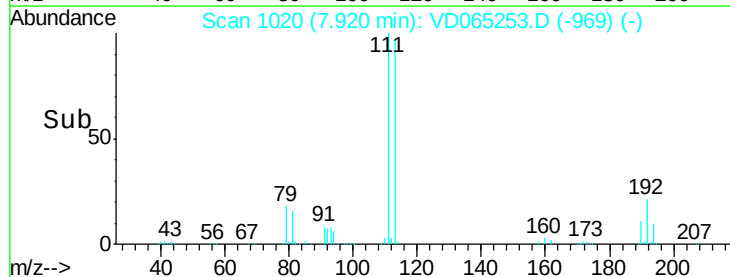
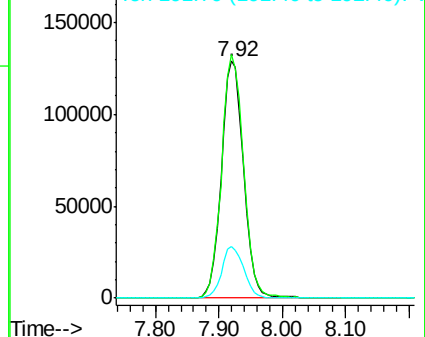
192 21.7 17.3 25.9

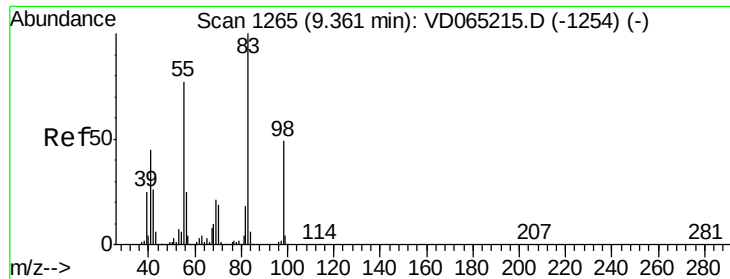


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

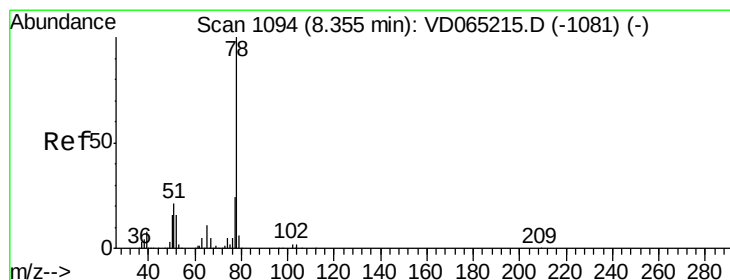
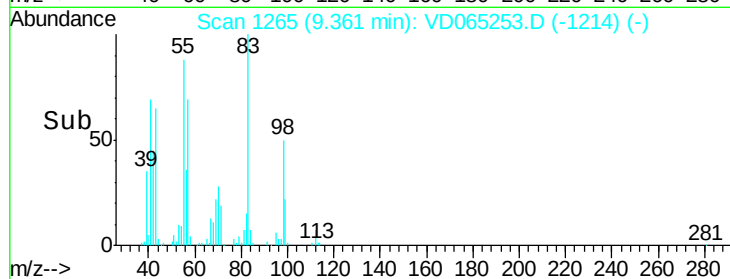
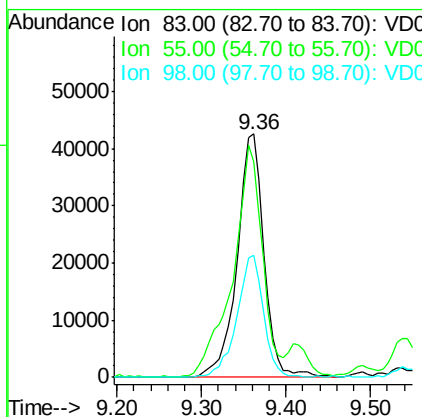
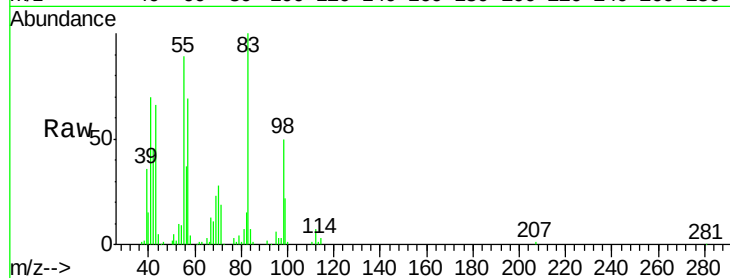




#39
Methylvlcyclohexane
Concen: 7.671 ug/l
RT: 9.36 min Scan# 1265
Delta R.T. 0.00 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

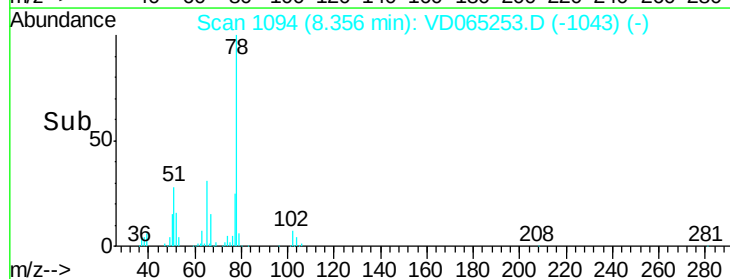
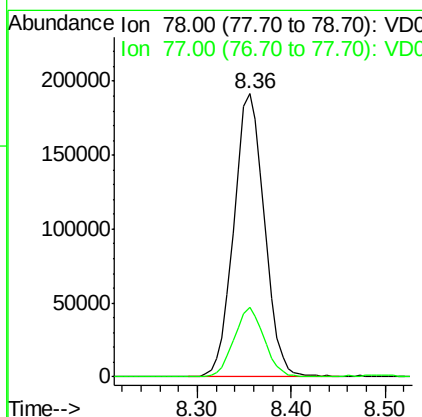
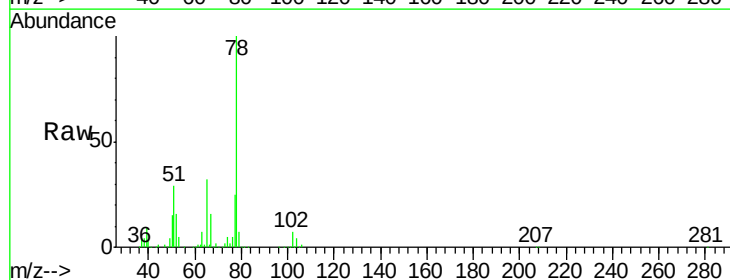
Instrument :
MSVOA_D
ClientSampled :
SW-4

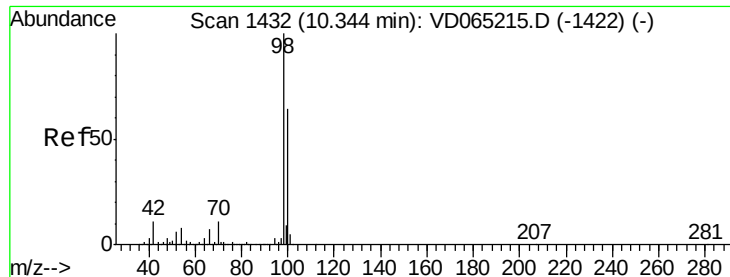
Tot Ion: 83 Resp: 93349
Ion Ratio Lower Upper
83 100
55 88.1 61.8 92.6
98 50.1 39.4 59.0



#40
Benzene
Concen: 14.817 ug/l
RT: 8.36 min Scan# 1094
Delta R.T. 0.00 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

Tgt Ion: 78 Resp: 432913
Ion Ratio Lower Upper
78 100
77 24.6 19.0 28.6

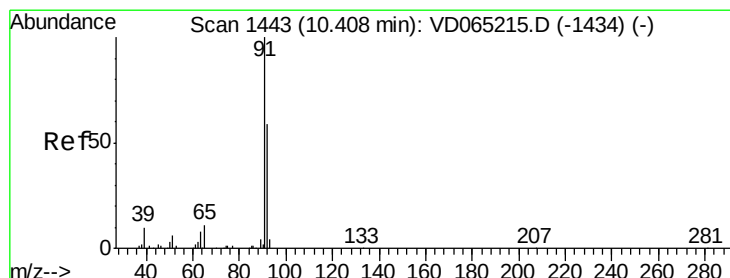
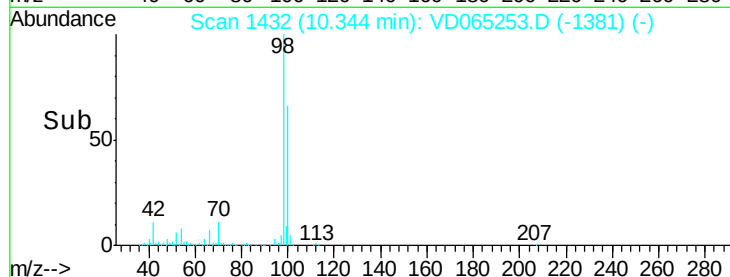
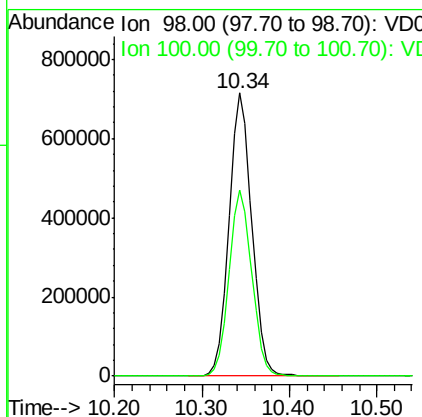
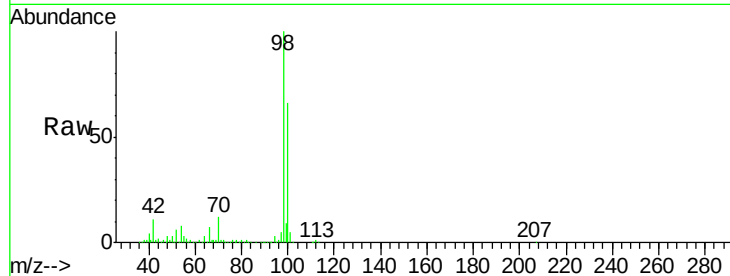




#50
Toluene-d8
Concen: 51.173 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

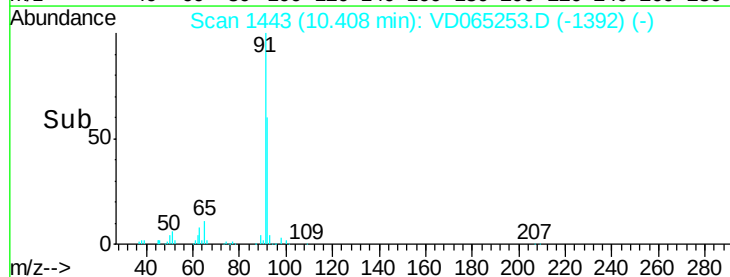
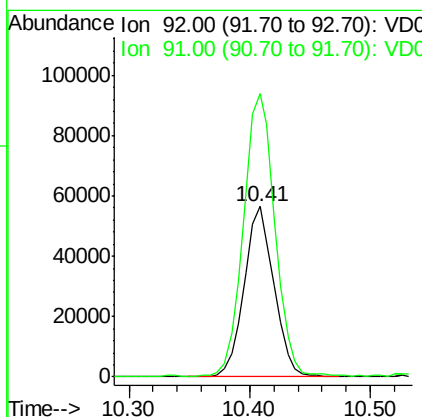
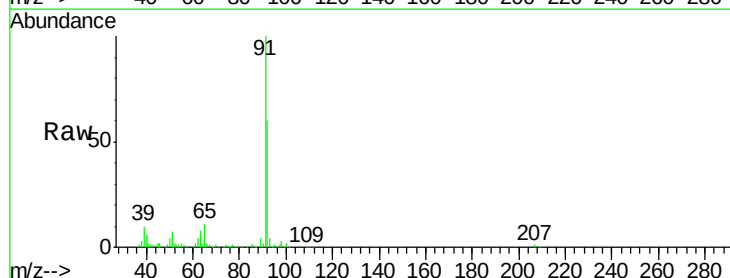
Instrument :
MSVOA_D
ClientSampled :
SW-4

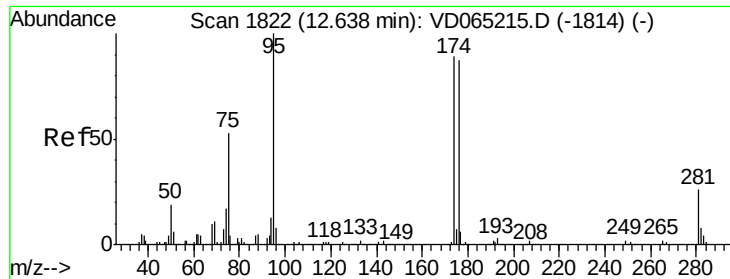
Tot Ion: 98 Resp: 1268965
Ion Ratio Lower Upper
98 100
100 65.8 52.0 78.0



#52
Toluene
Concen: 5.423 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. 0.00 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

Tgt Ion: 92 Resp: 98078
Ion Ratio Lower Upper
92 100
91 172.7 136.3 204.5

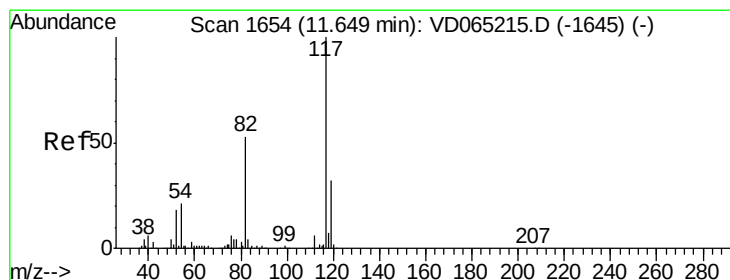
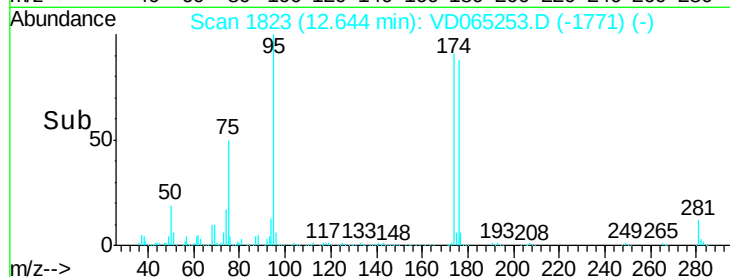
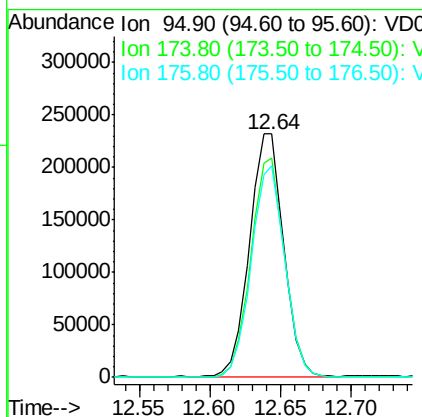
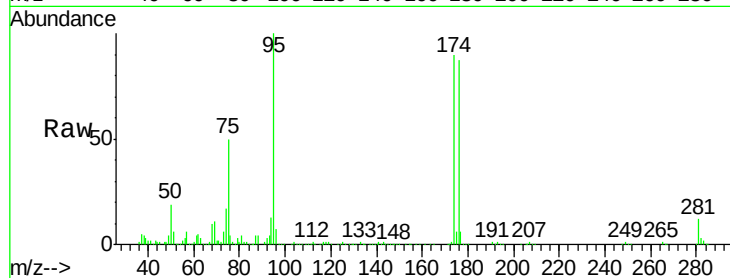




#62
4-Bromofluorobenzene
Concen: 50.074 ug/l
RT: 12.64 min Scan# 1823
Delta R.T. 0.01 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

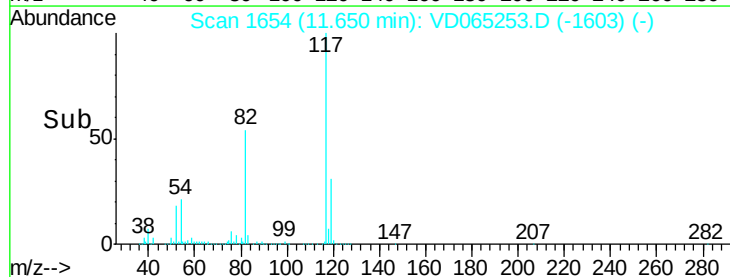
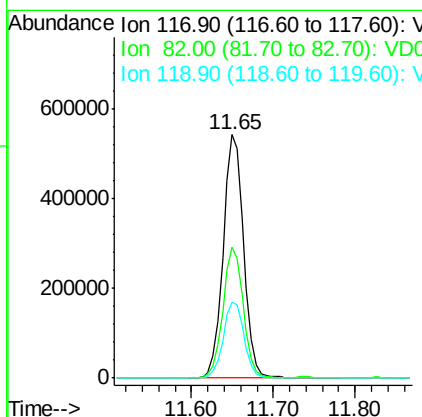
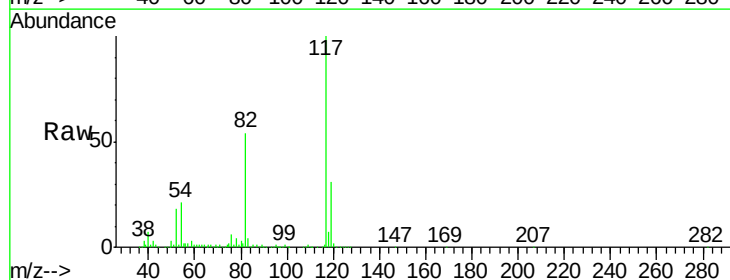
Instrument :
MSVOA_D
ClientSampleId :
SW-4

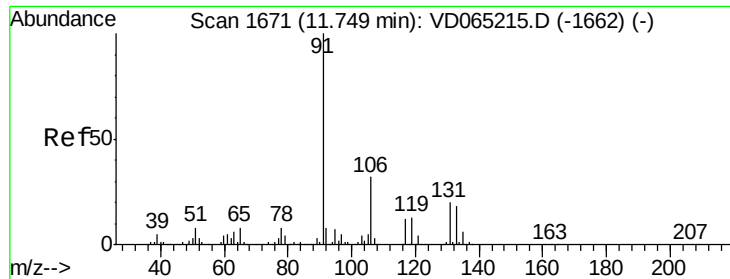
Tot Ion	Ratio	Lower	Upper
95	100		
174	89.3	0.0	178.0
176	85.7	0.0	174.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.6	42.7	64.1
119	31.0	25.5	38.3





#67

Ethyl Benzene

Concen: 6.483 ug/l

RT: 11.75 min Scan# 1671

Delta R.T. 0.00 min

Lab File: VD065253.D

Acq: 20 Feb 2020 13:35

Instrument :

MSVOA_D

ClientSampled :

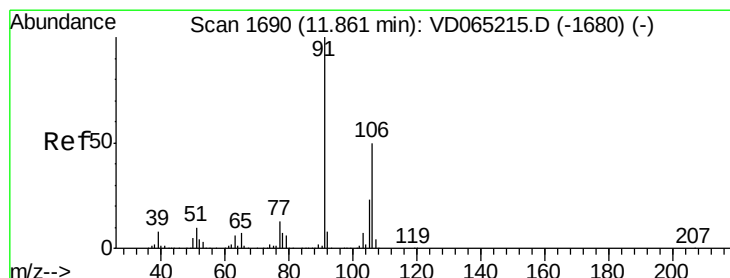
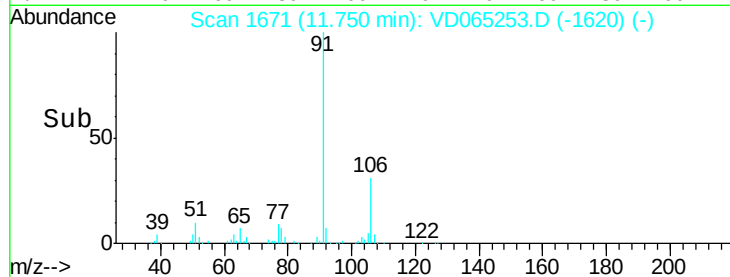
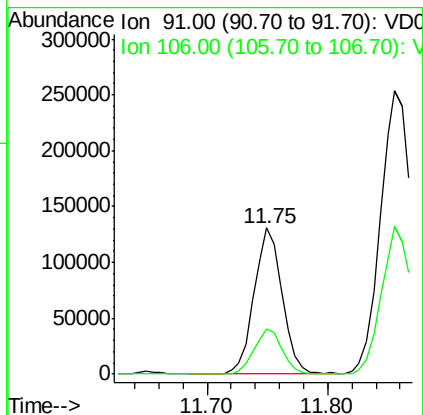
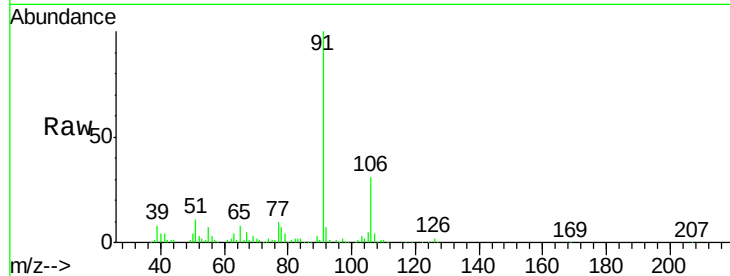
SW-4

Tot Ion: 91 Resp: 213646

Ion Ratio Lower Upper

91 100

106 30.9 25.2 37.8



#68

m/p-Xylenes

Concen: 18.855 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. -0.01 min

Lab File: VD065253.D

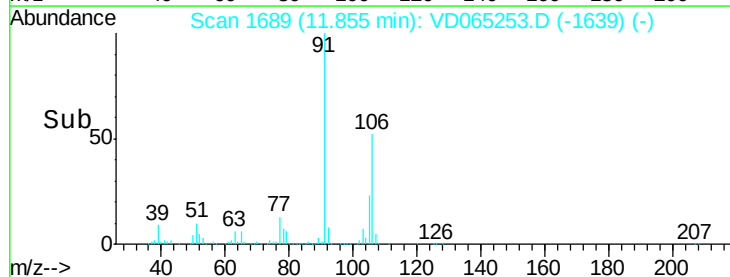
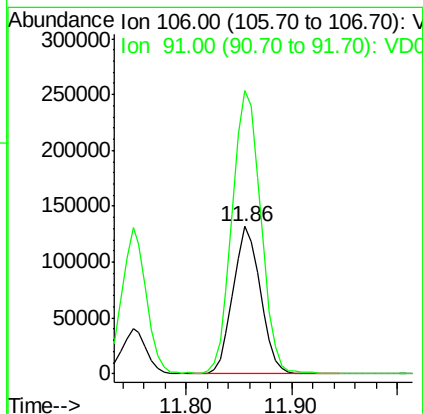
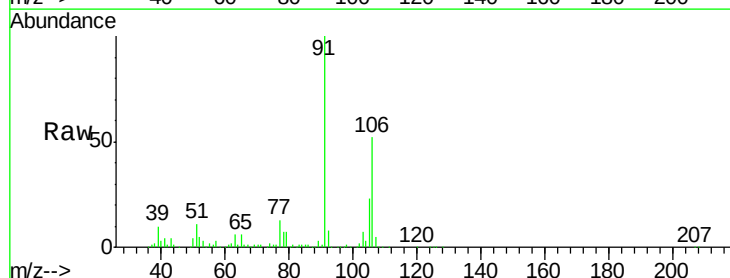
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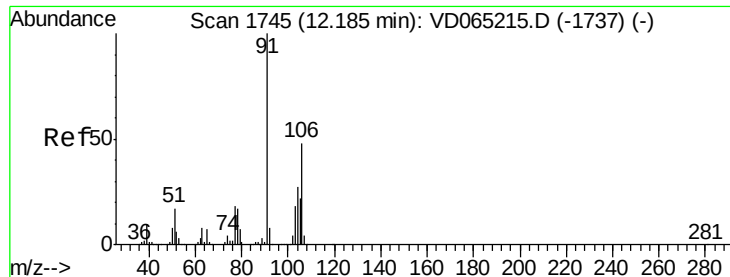
Tgt Ion: 106 Resp: 237724

Ion Ratio Lower Upper

106 100

91 199.7 158.2 237.4

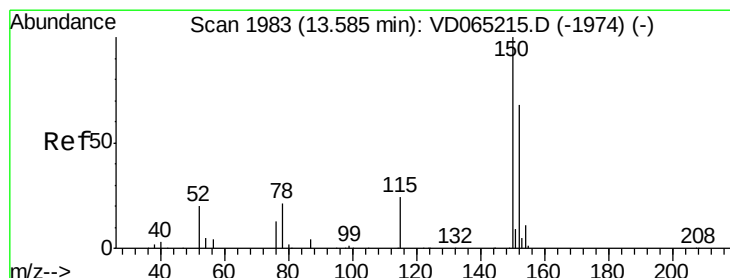
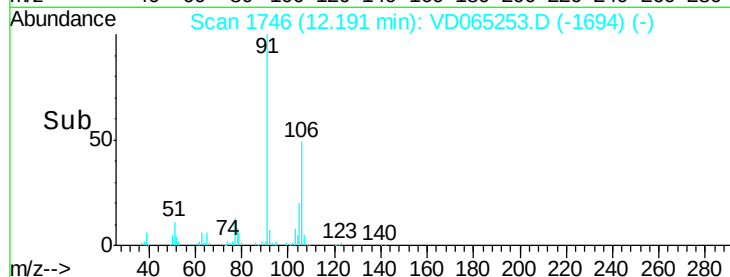
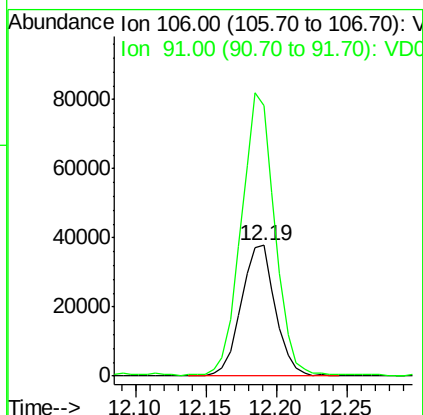
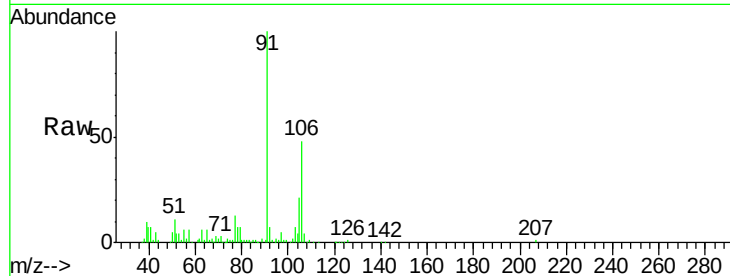




#69
o-Xylene
Concen: 5.744 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

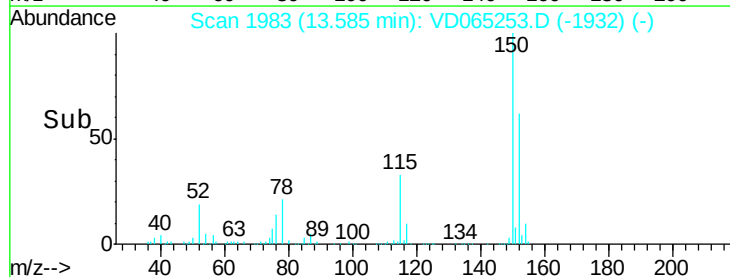
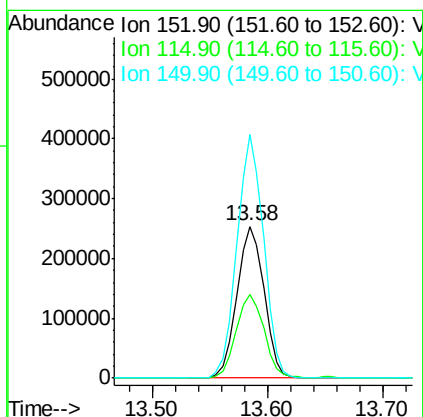
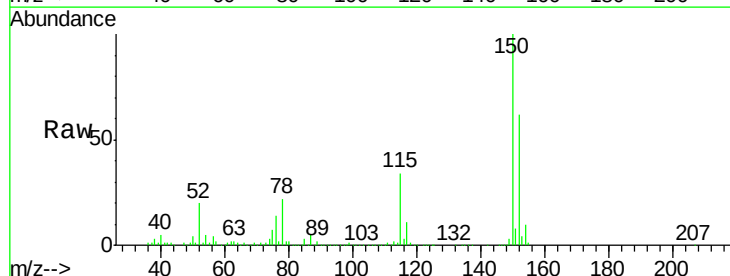
Instrument :
MSVOA_D
ClientSampled :
SW-4

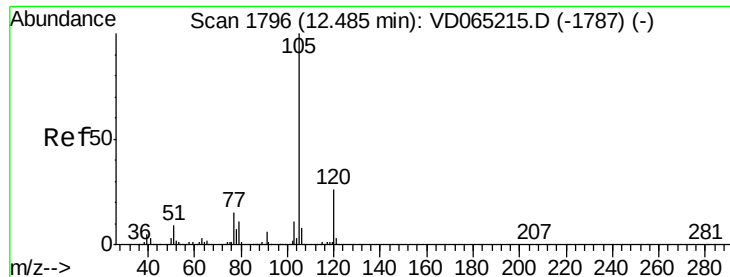
Tot Ion:106 Resp: 64164
Ion Ratio Lower Upper
106 100
91 212.2 104.7 313.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VD065253.D
Acq: 20 Feb 2020 13:35

Tgt Ion:152 Resp: 412912
Ion Ratio Lower Upper
152 100
115 56.9 27.6 82.8
150 157.5 0.0 347.4





#73

Isopropylbenzene

Concen: 5.964 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.00 min

Lab File: VD065253.D

Acq: 20 Feb 2020 13:35

Instrument :

MSVOA_D

ClientSampleId :

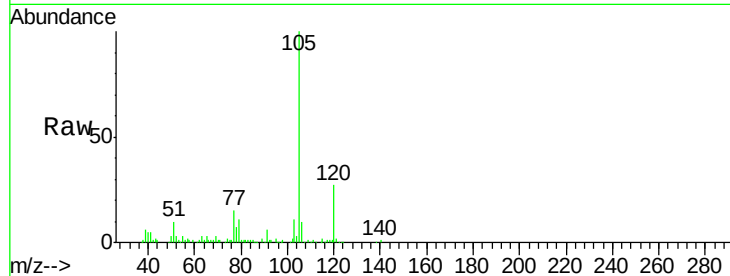
SW-4

Tot Ion:105 Resp: 163045

Ion Ratio Lower Upper

105 100

120 27.5 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

120000

100000

80000

60000

40000

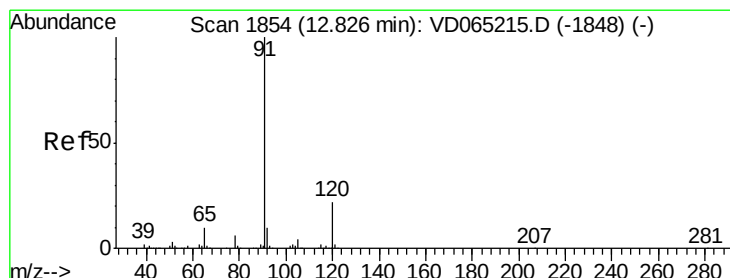
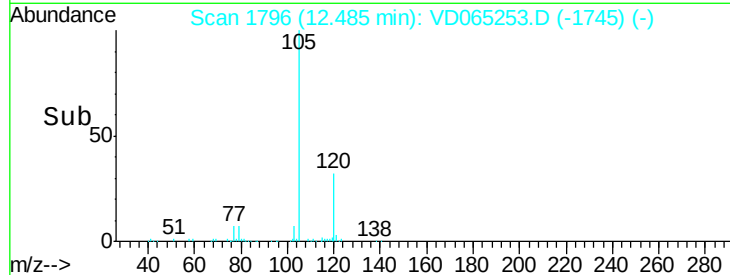
20000

0

12.48

12.45 12.48 12.51 12.55

Time-->



#78

n-propylbenzene

Concen: 21.885 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VD065253.D

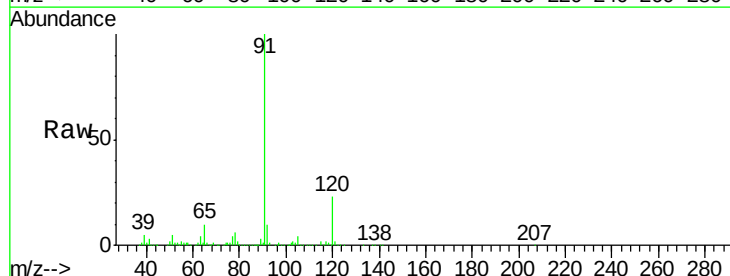
Acq: 20 Feb 2020 13:35

Tgt Ion: 91 Resp: 718944

Ion Ratio Lower Upper

91 100

120 23.2 11.5 34.5



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

500000

400000

300000

200000

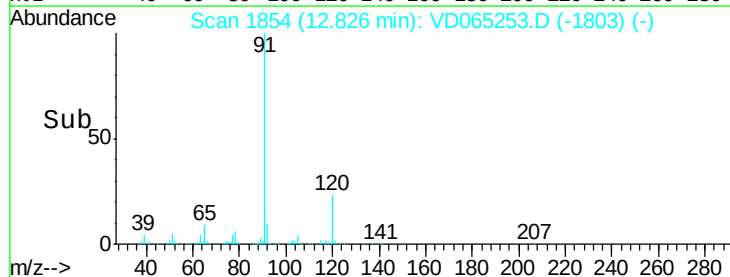
100000

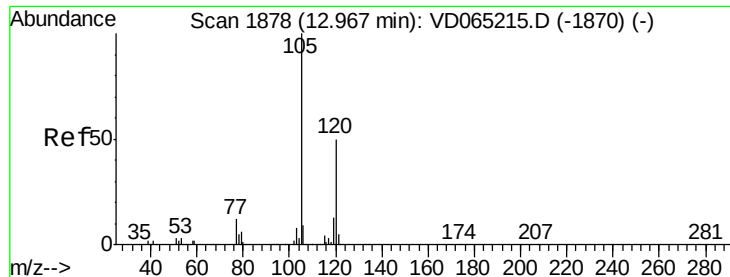
0

12.83

12.75 12.80 12.85

Time-->





#80

1,3,5-Trimethylbenzene

Concen: 3.300 ug/l

RT: 12.97 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VD065253.D

Acq: 20 Feb 2020 13:35

Instrument :

MSVOA_D

ClientSampleId :

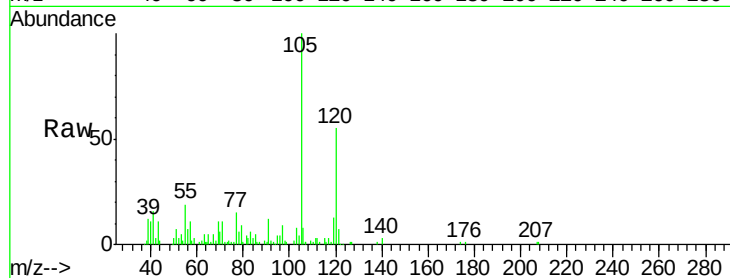
SW-4

Tot Ion:105 Resp: 74295

Ion Ratio Lower Upper

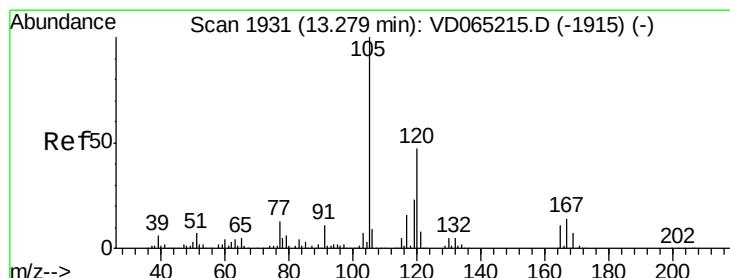
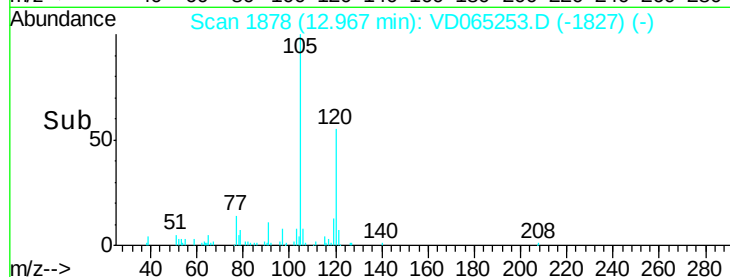
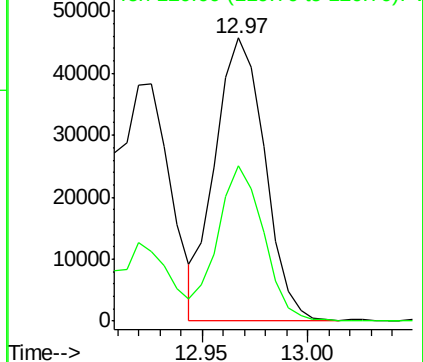
105 100

120 51.3 25.4 76.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 8.057 ug/l

RT: 13.28 min Scan# 1931

Delta R.T. 0.00 min

Lab File: VD065253.D

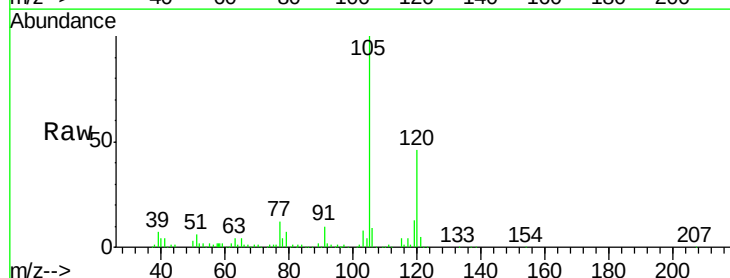
Acq: 20 Feb 2020 13:35

Tgt Ion:105 Resp: 181564

Ion Ratio Lower Upper

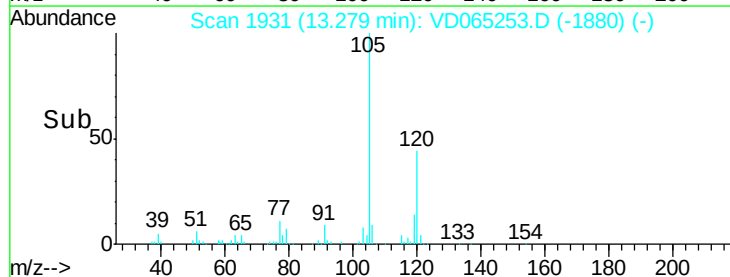
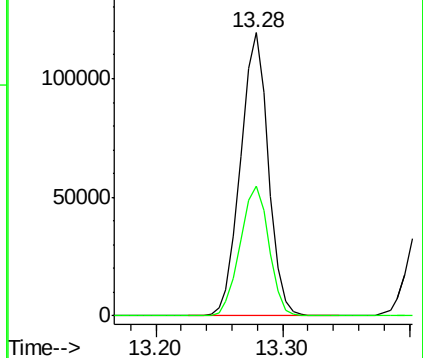
105 100

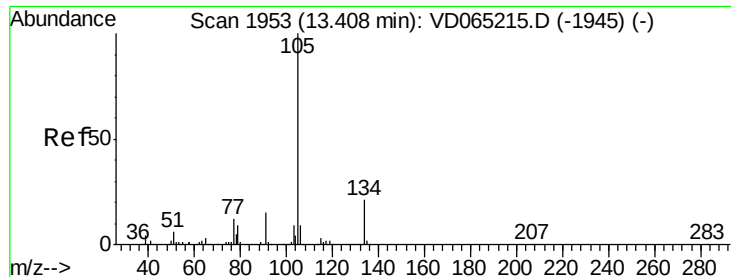
120 47.7 23.3 69.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.562 ug/l

RT: 13.41 min Scan# 1953

Delta R.T. 0.00 min

Lab File: VD065253.D

Acq: 20 Feb 2020 13:35

Instrument :

MSVOA_D

ClientSampleId :

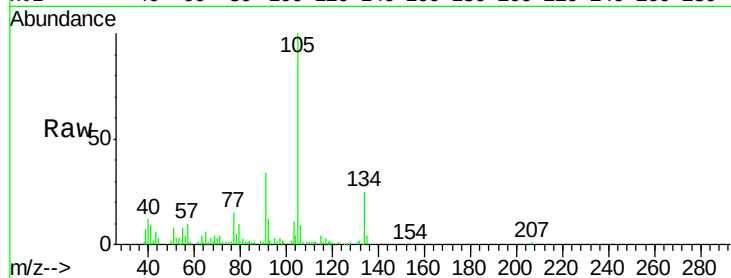
SW-4

Tot Ion:105 Resp: 69667

Ion Ratio Lower Upper

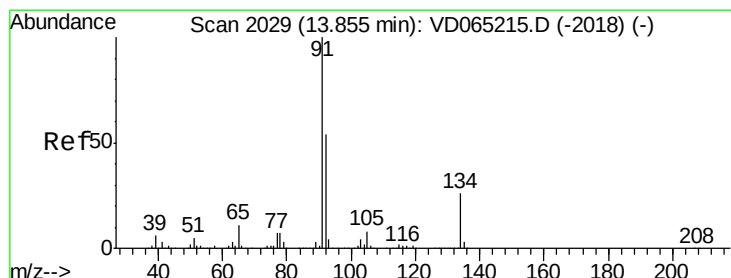
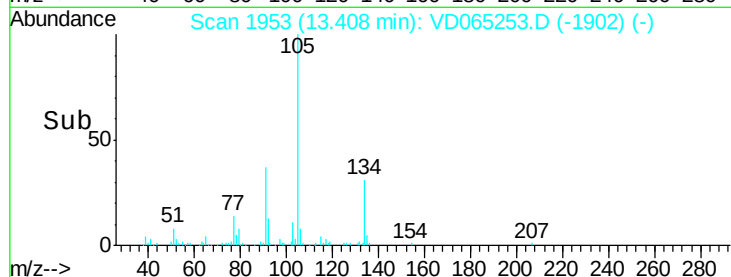
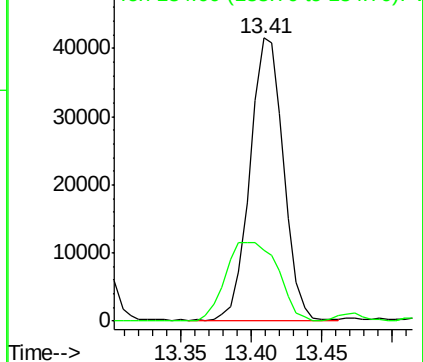
105 100

134 43.0 10.3 30.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#89

n-Butylbenzene

Concen: 7.438 ug/l

RT: 13.86 min Scan# 2029

Delta R.T. 0.00 min

Lab File: VD065253.D

Acq: 20 Feb 2020 13:35

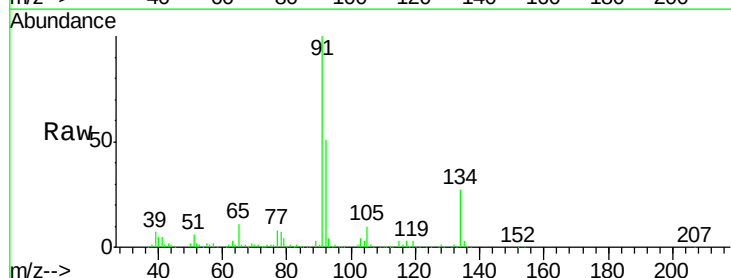
Tgt Ion: 91 Resp: 170426

Ion Ratio Lower Upper

91 100

92 49.3 27.0 80.8

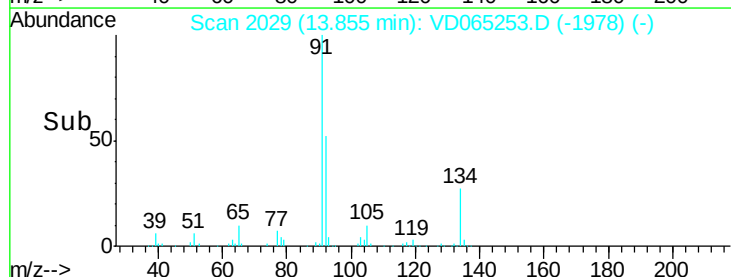
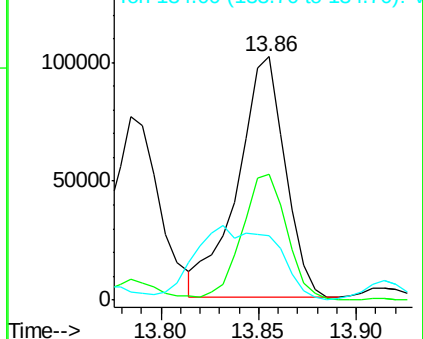
134 0.0 13.5 40.4#

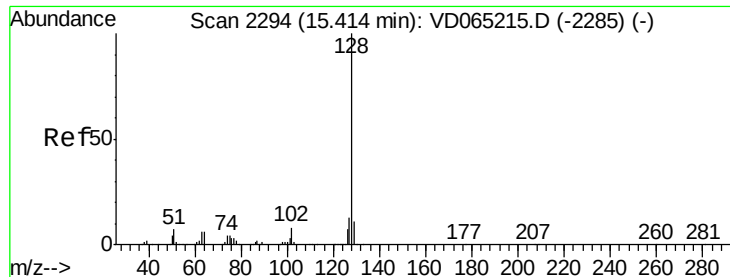


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#95

Naphthalene

Concen: 127.976 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD065253.D

Acq: 20 Feb 2020 13:35

Instrument :

MSVOA_D

ClientSampleId :

SW-4

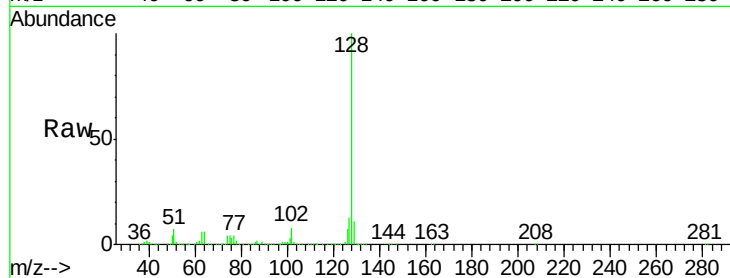
Tot Ion:128 Resp: 1533414

Ion Ratio Lower Upper

128 100

127 13.1 10.3 15.5

129 11.0 8.8 13.2



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

