

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD072220\
 Data File : VD065999.D
 Acq On : 22 Jul 2020 14:06
 Operator : VA/SY
 Sample : L3323-01
 Misc : 4.50G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 225

Quant Time: Jul 23 01:14:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D072120S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 12:34:13 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	275106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	508014	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	521766	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	232597	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	133033	59.43	ug/l	0.00
Spiked Amount			Recovery	=	118.86%	
35) Dibromofluoromethane	7.91	113	157537	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
50) Toluene-d8	10.34	98	623211	54.29	ug/l	0.00
Spiked Amount			Recovery	=	108.58%	
62) 4-Bromofluorobenzene	12.64	95	240626	60.46	ug/l	0.00
Spiked Amount			Recovery	=	120.92%	

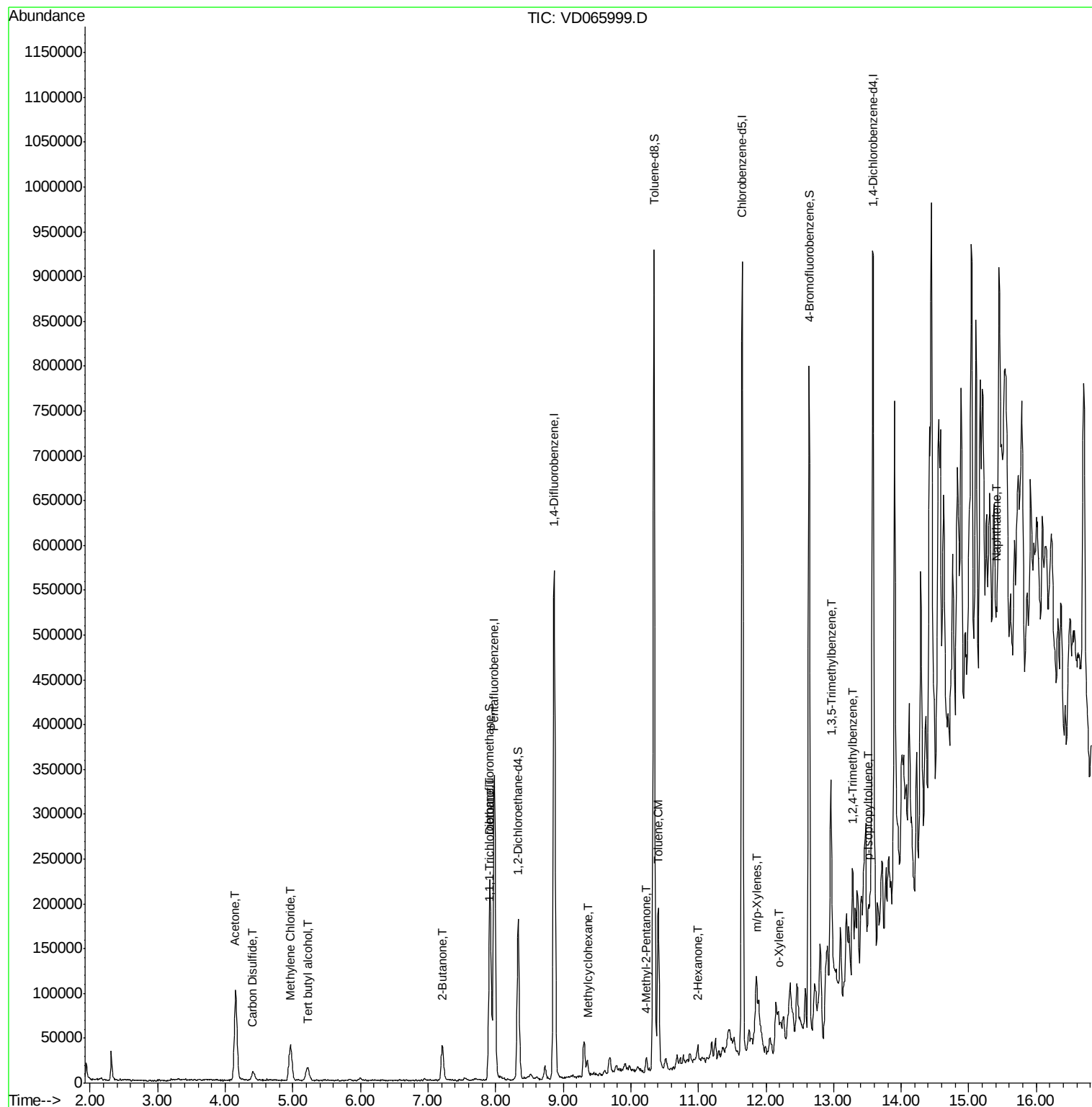
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.23	59	27218	186.360	ug/l #	85
16) Acetone	4.15	43	180349	398.028	ug/l	95
17) Carbon Disulfide	4.41	76	18266	2.476	ug/l #	89
20) Methylene Chloride	4.97	84	31339	10.145	ug/l	96
25) 2-Butanone	7.21	43	61754	102.712	ug/l	99
32) 1,1,1-Trichloroethane	7.90	97	4256	1.075	ug/l #	50
39) Methylcyclohexane	9.37	83	8067	1.536	ug/l	85
51) 4-Methyl-2-Pentanone	10.23	43	10574	6.489	ug/l	99
52) Toluene	10.40	92	78305	9.899	ug/l	96
59) 2-Hexanone	10.99	43	16365	14.493	ug/l	86
68) m/p-Xylenes	11.86	106	15399	2.437	ug/l	92
69) o-Xylene	12.19	106	8647	1.505	ug/l	88
80) 1,3,5-Trimethylbenzene	12.97	105	32063	2.773	ug/l	96
84) 1,2,4-Trimethylbenzene	13.27	105	38153	3.344	ug/l	99
86) p-Isopropyltoluene	13.52	119	13376	1.056	ug/l	92
95) Naphthalene	15.41	128	50126	9.852	ug/l #	87

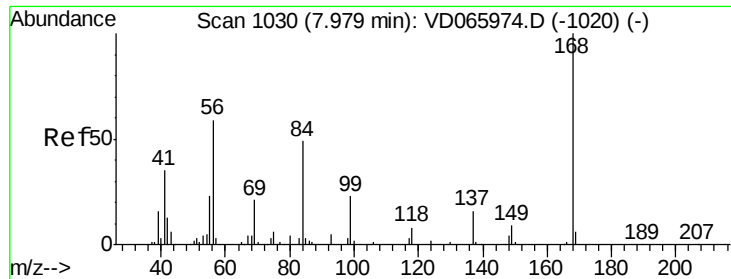
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD065999.D

Acq: 22 Jul 2020 14:06

Instrument :

MSVOA_D

ClientSampleId :

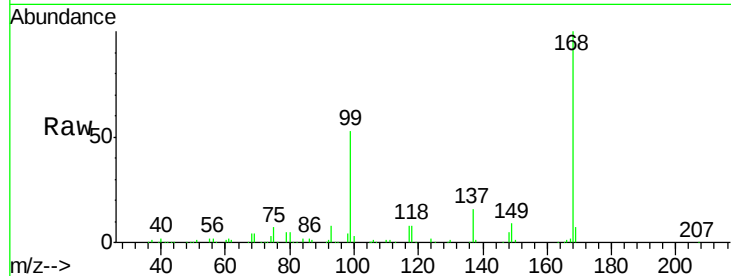
225

Tot Ion:168 Resp: 275106

Ion Ratio Lower Upper

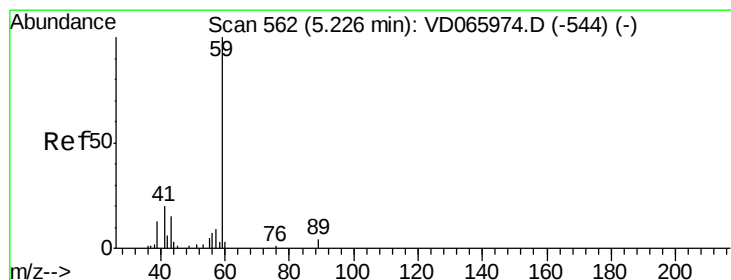
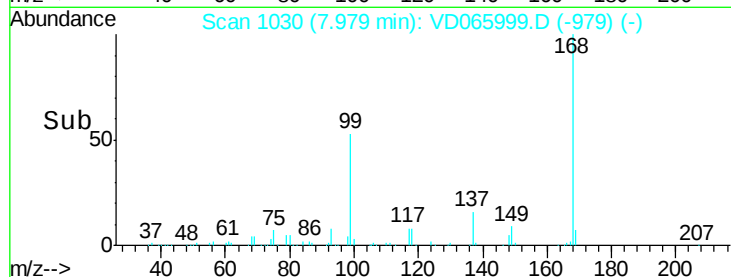
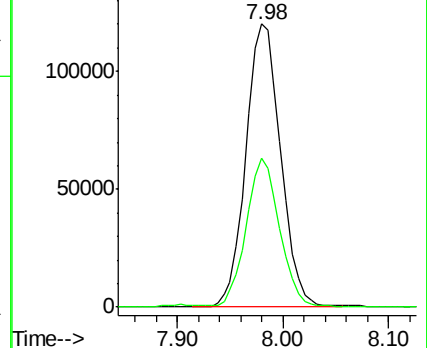
168 100

99 52.7 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 186.360 ug/l

RT: 5.23 min Scan# 562

Delta R.T. 0.00 min

Lab File: VD065999.D

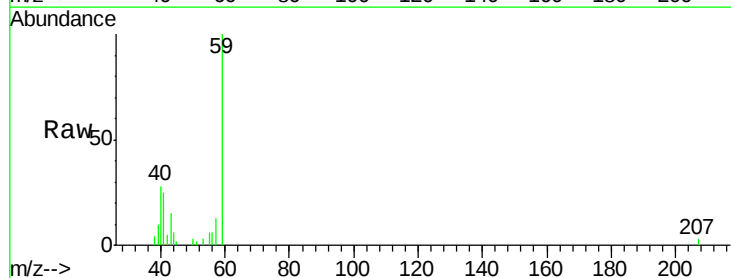
Acq: 22 Jul 2020 14:06

Tgt Ion: 59 Resp: 27218

Ion Ratio Lower Upper

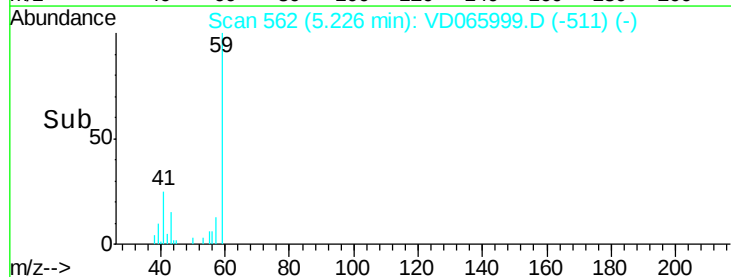
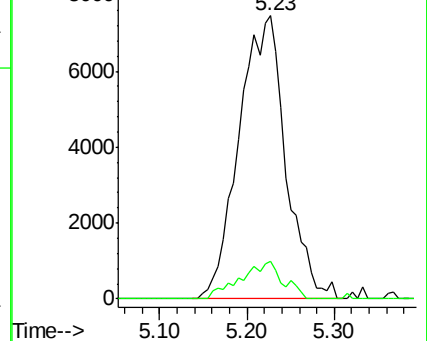
59 100

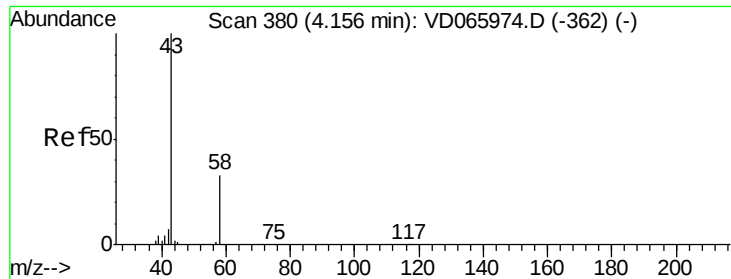
57 10.7 4.5 6.7#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 398.028 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD065999.D

Acq: 22 Jul 2020 14:06

Instrument :

MSVOA_D

ClientSampleId :

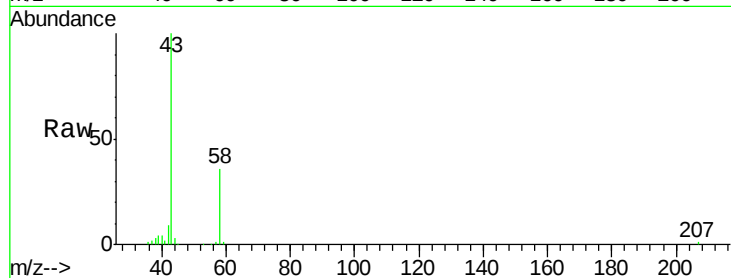
225

Tot Ion: 43 Resp: 180349

Ion Ratio Lower Upper

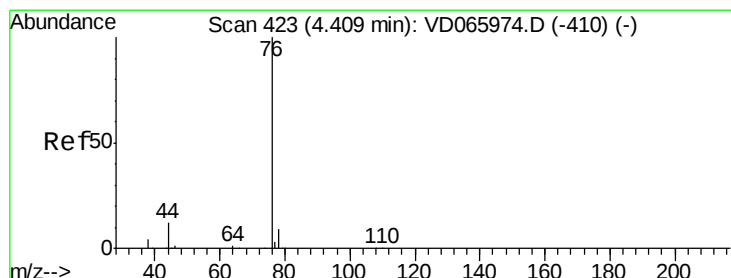
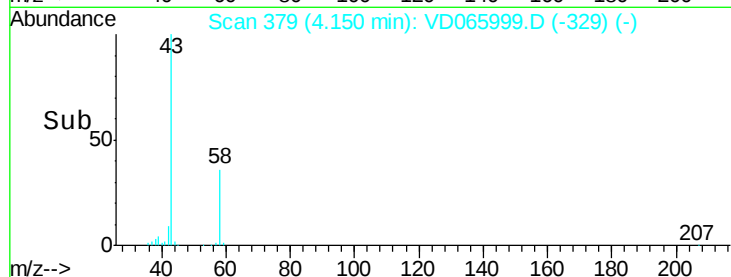
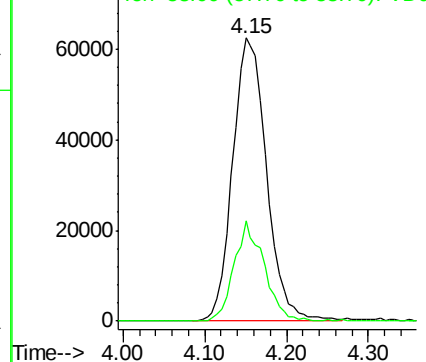
43 100

58 35.6 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 2.476 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.00 min

Lab File: VD065999.D

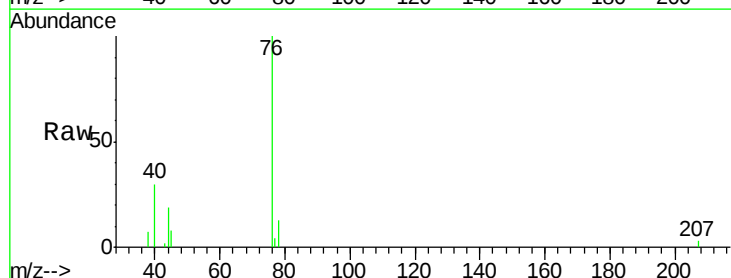
Acq: 22 Jul 2020 14:06

Tgt Ion: 76 Resp: 18266

Ion Ratio Lower Upper

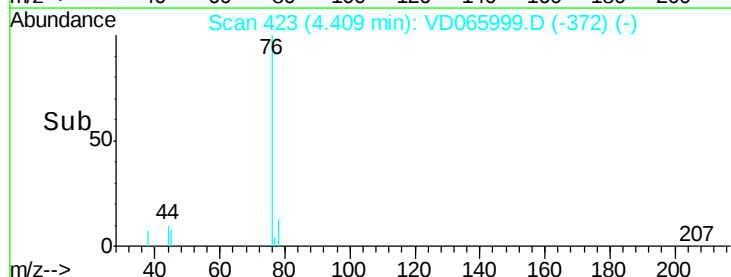
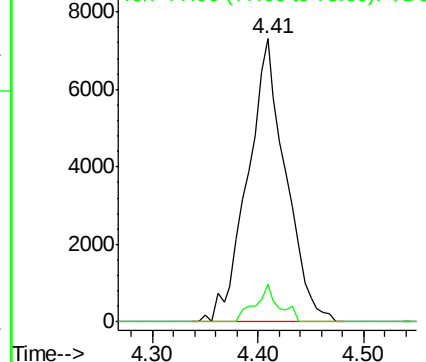
76 100

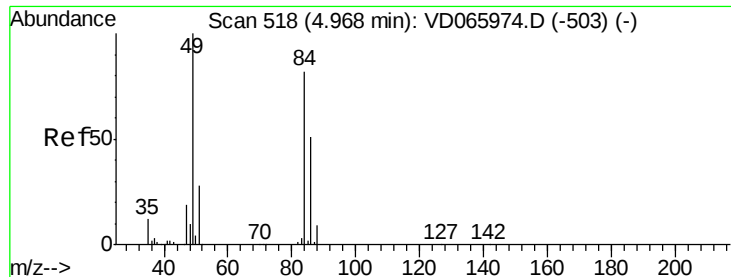
78 13.2 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

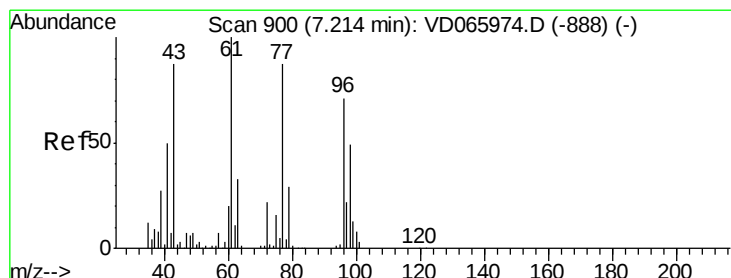
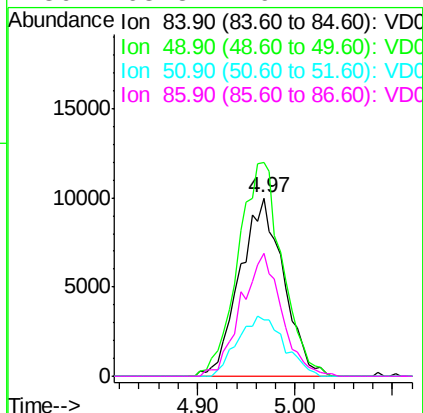
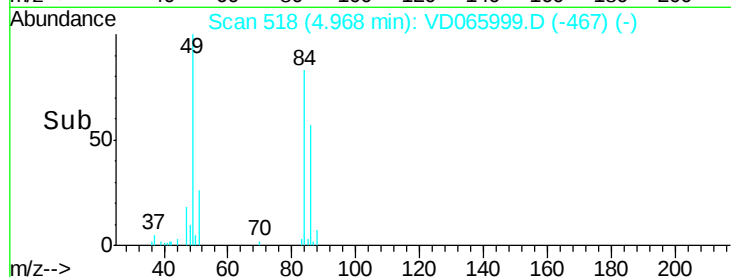
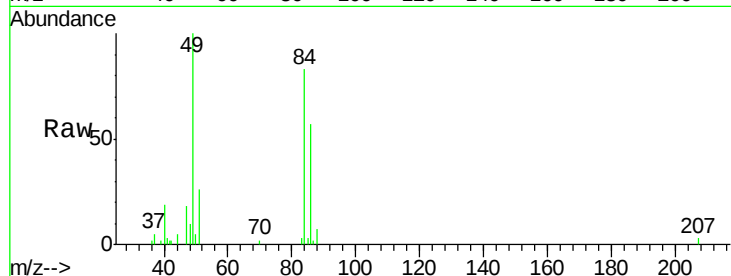




#20
Methvlene Chloride
Concen: 10.145 ug/l
RT: 4.97 min Scan# 518
Delta R.T. 0.00 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

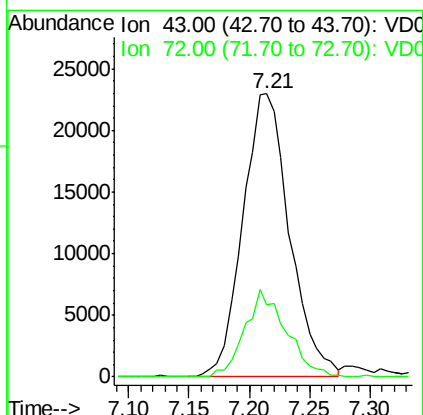
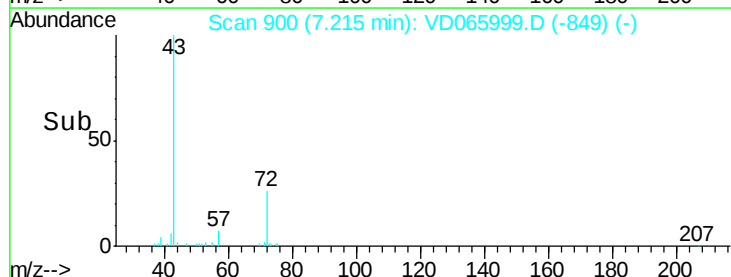
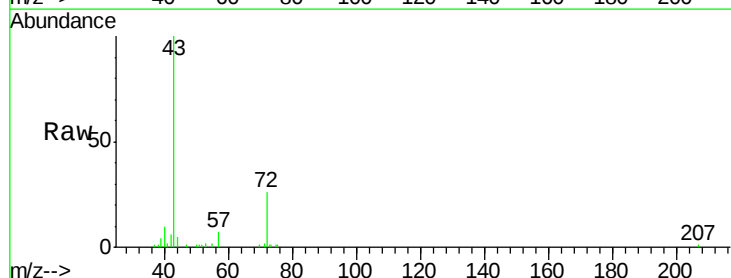
Instrument :
MSVOA_D
ClientSampleId :
225

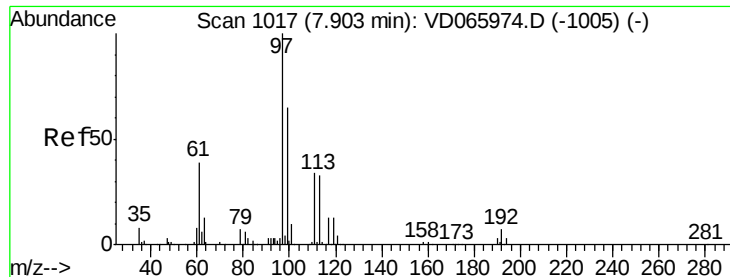
Tot Ion: 84 Resp: 31339
Ion Ratio Lower Upper
84 100
49 119.9 97.7 146.5
51 31.7 27.4 41.2
86 68.8 49.4 74.2



#25
2-Butanone
Concen: 102.712 ug/l
RT: 7.21 min Scan# 900
Delta R.T. 0.00 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

Tgt Ion: 43 Resp: 61754
Ion Ratio Lower Upper
43 100
72 25.6 20.2 30.2





#32

1,1,1-Trichloroethane

Concen: 1.075 ug/l

RT: 7.90 min Scan# 1016

Delta R.T. -0.01 min

Lab File: VD065999.D

Acq: 22 Jul 2020 14:06

Instrument :

MSVOA_D

ClientSampleId :

225

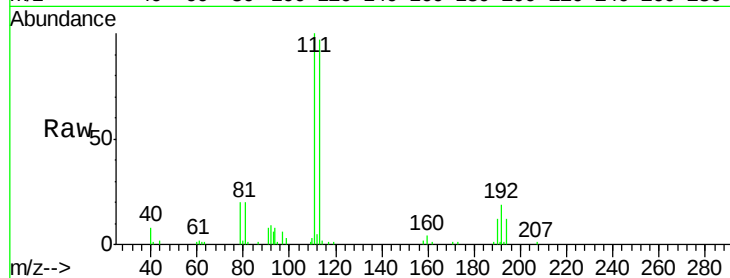
Tot Ion: 97 Resp: 4256

Ion Ratio Lower Upper

97 100

99 0.0 51.8 77.6#

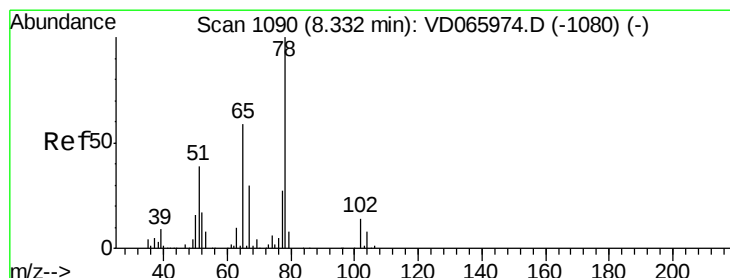
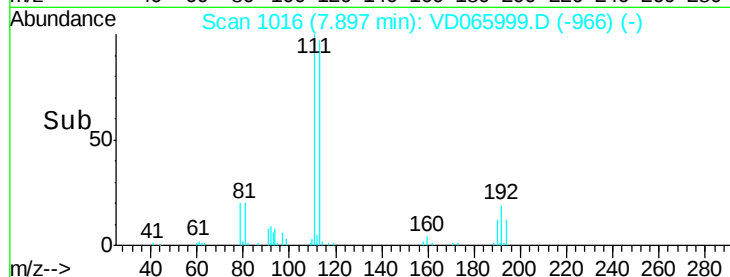
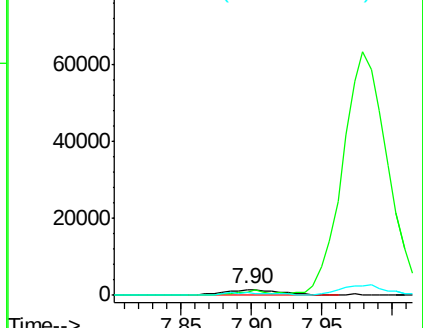
61 41.5 33.3 49.9



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: 59.429 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. 0.00 min

Lab File: VD065999.D

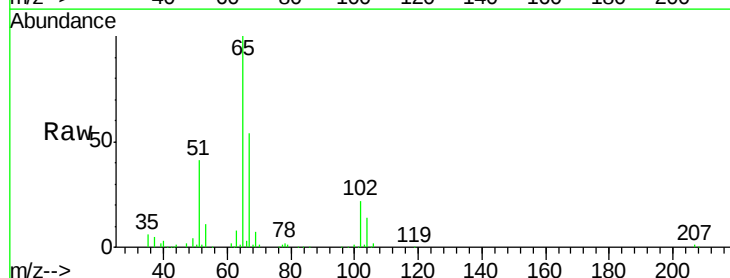
Acq: 22 Jul 2020 14:06

Tgt Ion: 65 Resp: 133033

Ion Ratio Lower Upper

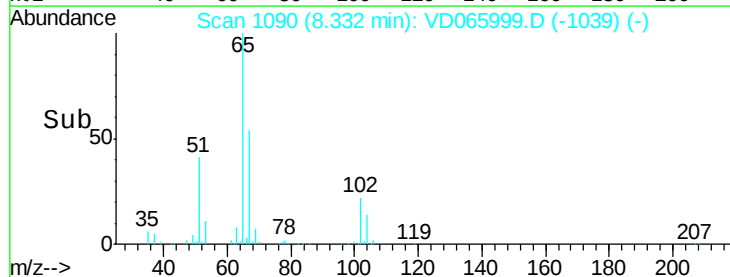
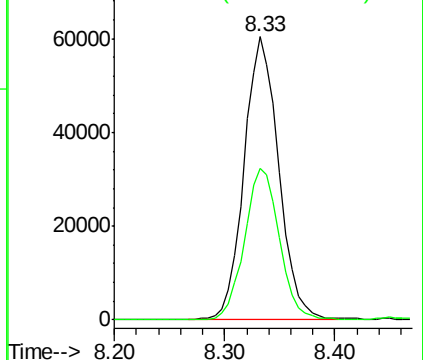
65 100

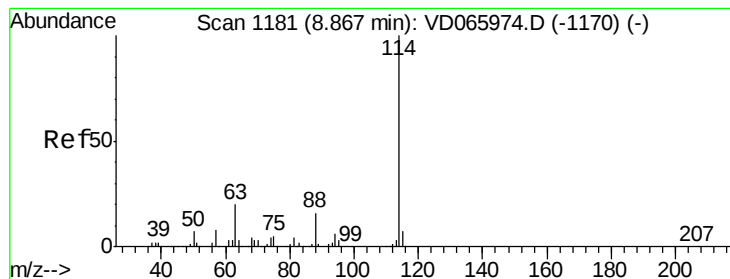
67 54.0 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065999.D

Acq: 22 Jul 2020 14:06

Instrument :

MSVOA_D

ClientSampleId :

225

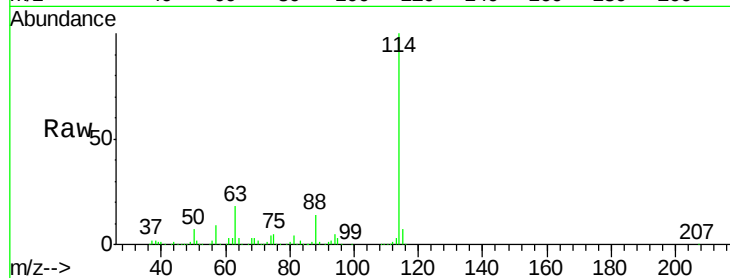
Tot Ion:114 Resp: 508014

Ion Ratio Lower Upper

114 100

63 18.2 0.0 39.6

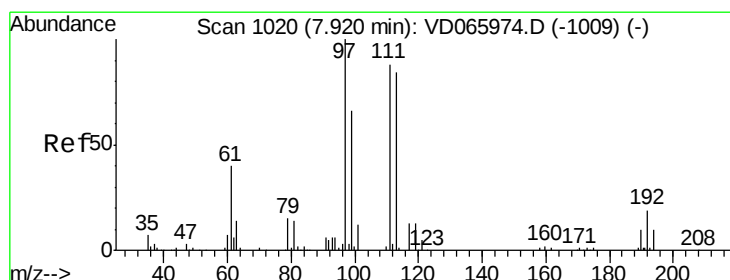
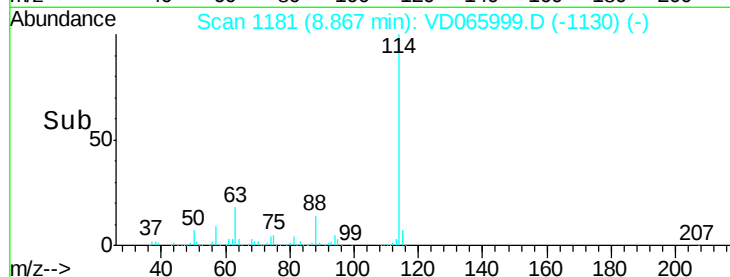
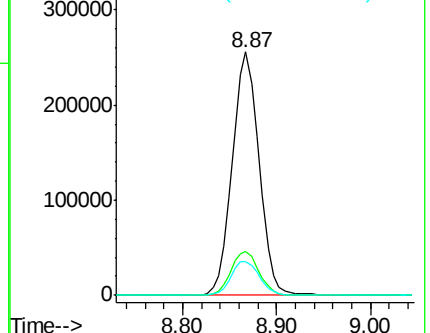
88 13.9 0.0 31.2



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: 51.127 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. -0.01 min

Lab File: VD065999.D

Acq: 22 Jul 2020 14:06

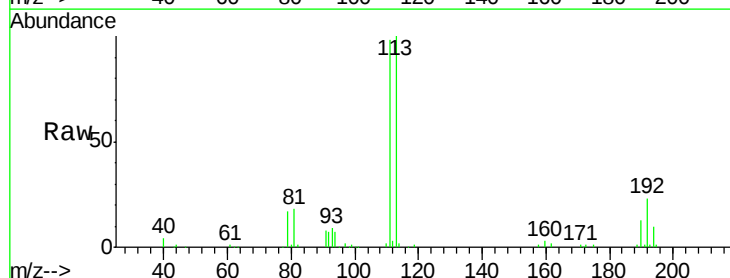
Tgt Ion:113 Resp: 157537

Ion Ratio Lower Upper

113 100

111 102.5 83.2 124.8

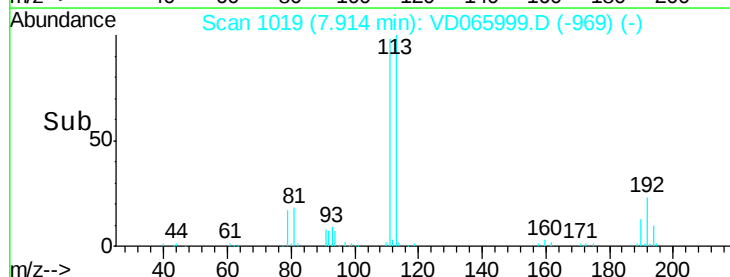
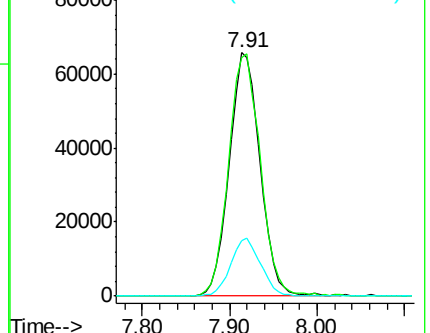
192 23.0 18.7 28.1

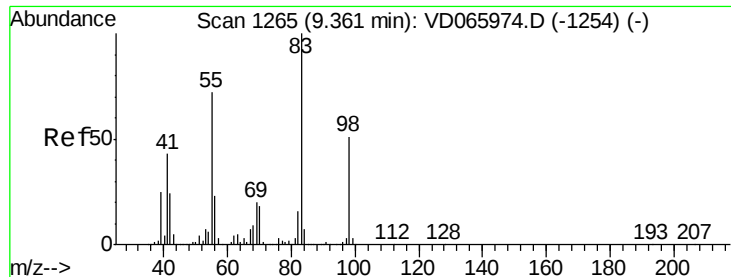


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

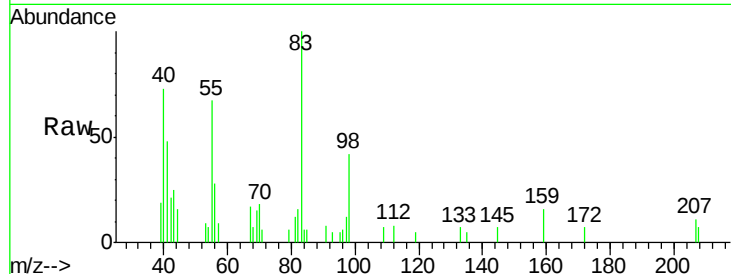




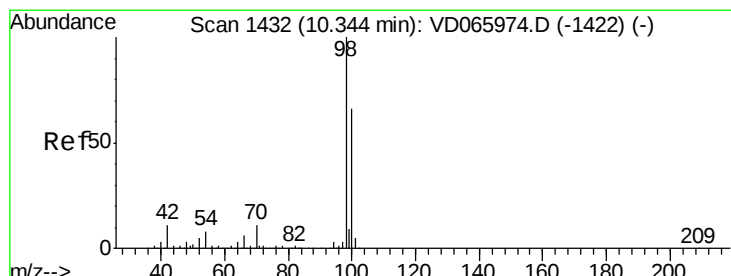
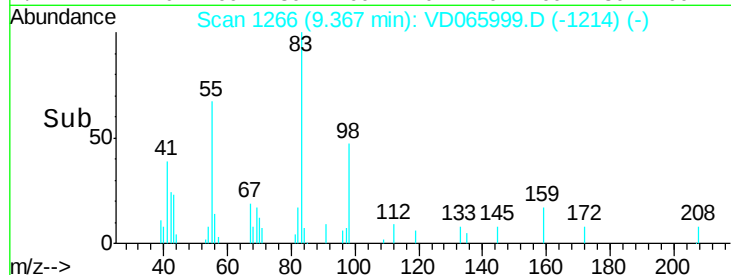
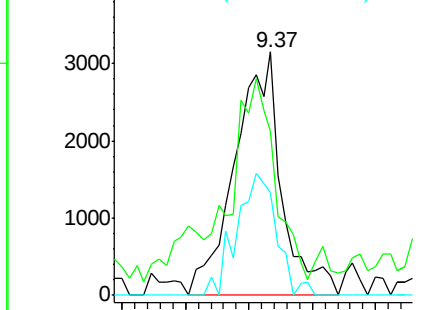
#39
Methylcyclohexane
Concen: 1.536 ug/l
RT: 9.37 min Scan# 1266
Delta R.T. 0.01 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

Instrument :
MSVOA_D
ClientSampled :
225

Tot Ion: 83 Resp: 8067
Ion Ratio Lower Upper
83 100
55 58.3 57.3 85.9
98 42.5 41.0 61.6

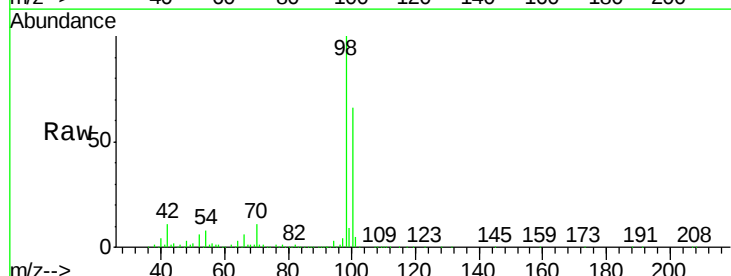


Abundance Ion 83.00 (82.70 to 83.70): VDC
Ion 55.00 (54.70 to 55.70): VDC
Ion 98.00 (97.70 to 98.70): VDC

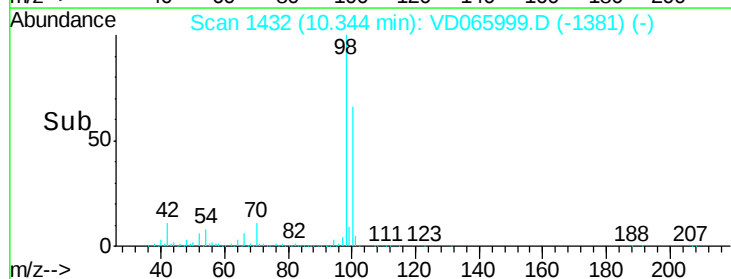
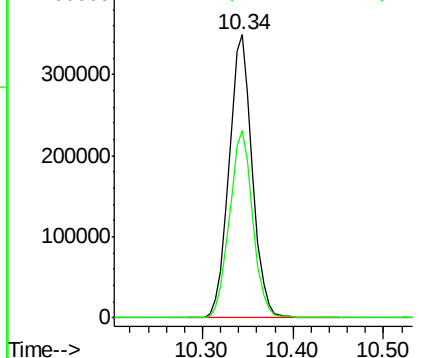


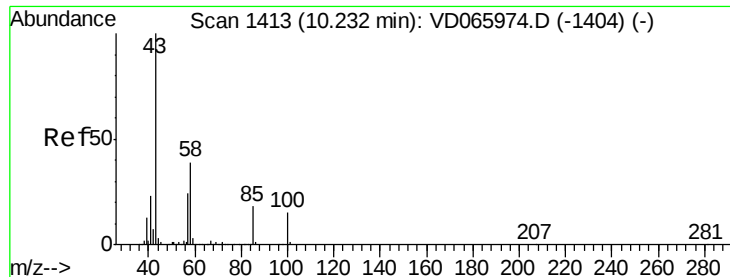
#50
Toluene-d8
Concen: 54.294 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. 0.00 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

Tgt Ion: 98 Resp: 623211
Ion Ratio Lower Upper
98 100
100 66.5 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VDC
Ion 100.00 (99.70 to 100.70): VDC





#51

4-Methyl-2-Pentanone

Concen: 6.489 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. 0.00 min

Lab File: VD065999.D

Acq: 22 Jul 2020 14:06

Instrument :

MSVOA_D

ClientSampleId :

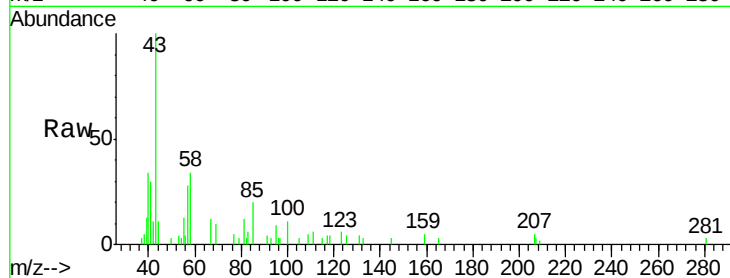
225

Tot Ion: 43 Resp: 10574

Ion Ratio Lower Upper

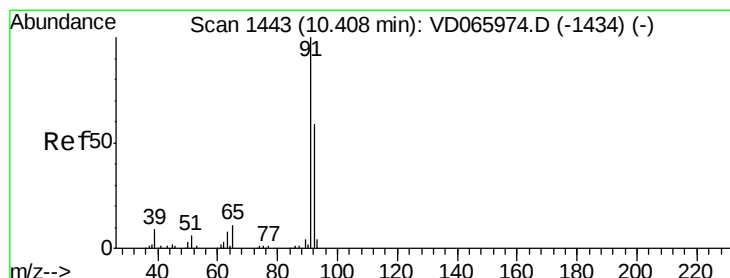
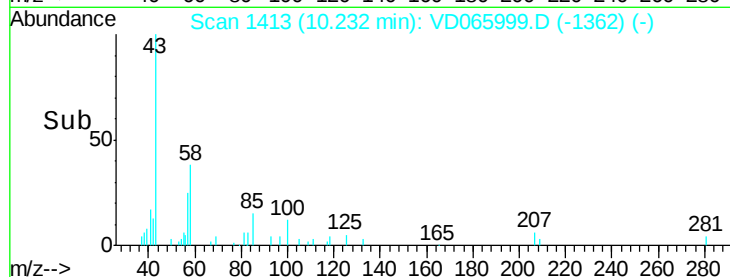
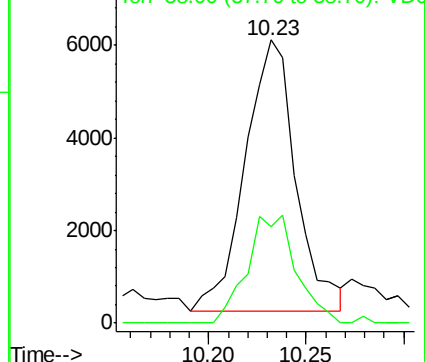
43 100

58 38.3 31.3 46.9



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#52

Toluene

Concen: 9.899 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.01 min

Lab File: VD065999.D

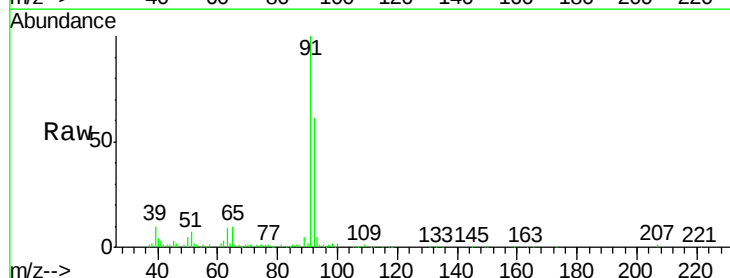
Acq: 22 Jul 2020 14:06

Tgt Ion: 92 Resp: 78305

Ion Ratio Lower Upper

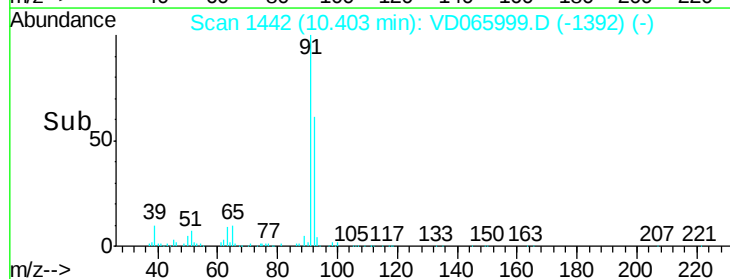
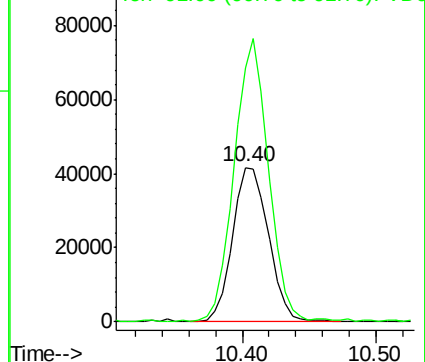
92 100

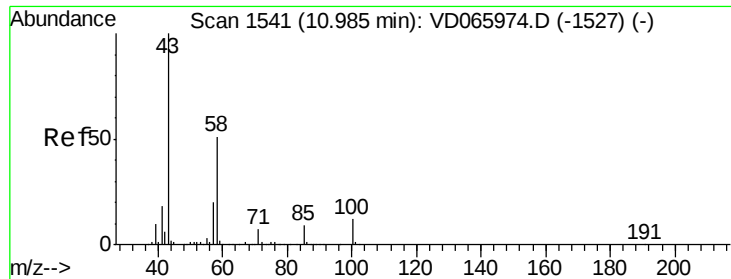
91 174.0 134.5 201.7



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC

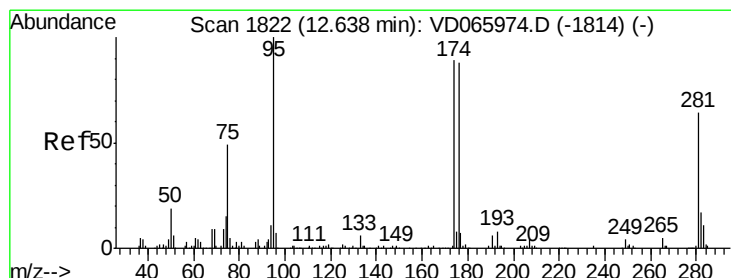
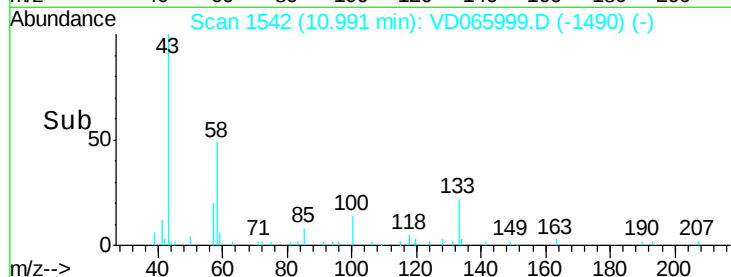
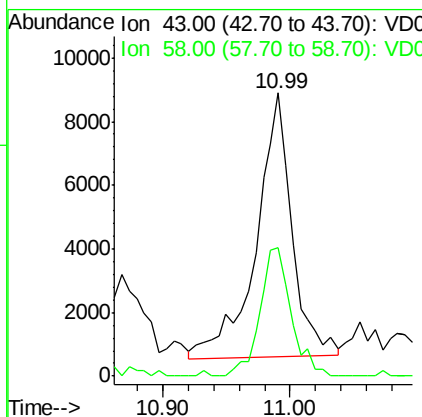
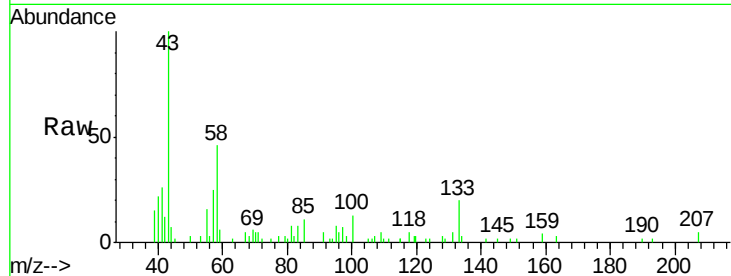




#59
2-Hexanone
Concen: 14.493 ug/l
RT: 10.99 min Scan# 1542
Delta R.T. 0.01 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

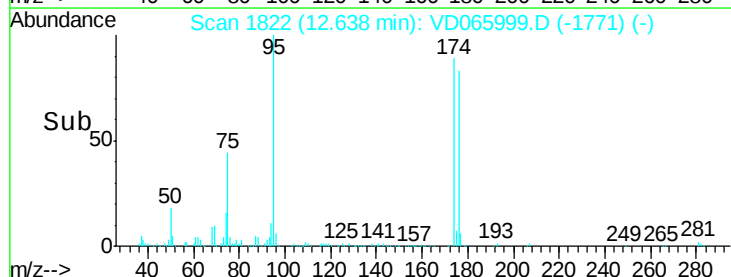
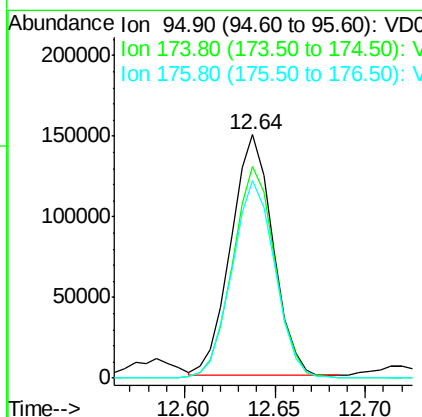
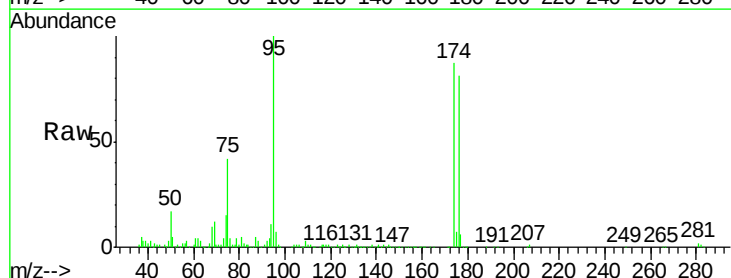
Instrument :
MSVOA_D
ClientSampleId :
225

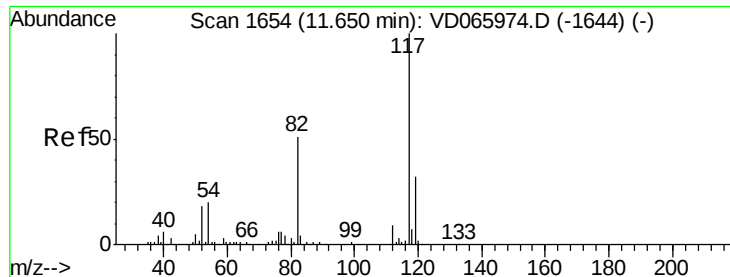
Tot Ion: 43 Resp: 16365
Ion Ratio Lower Upper
43 100
58 42.5 26.2 78.6



#62
4-Bromofluorobenzene
Concen: 60.458 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

Tgt Ion: 95 Resp: 240626
Ion Ratio Lower Upper
95 100
174 88.5 0.0 178.8
176 84.0 0.0 172.6

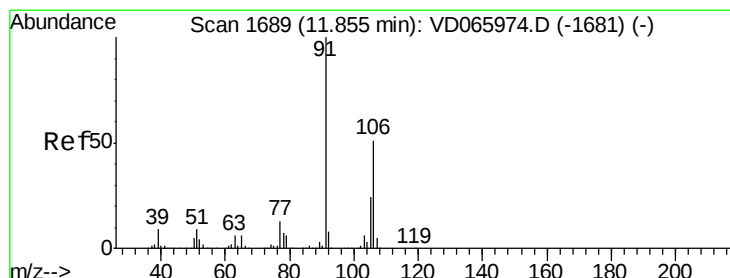
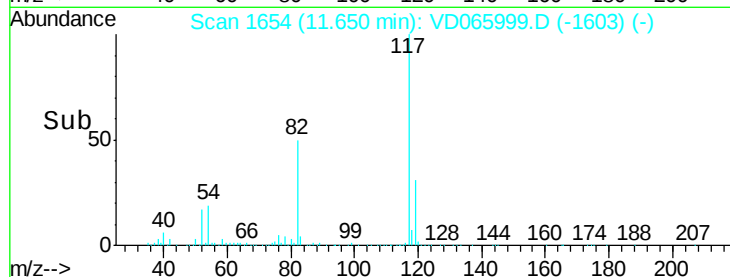
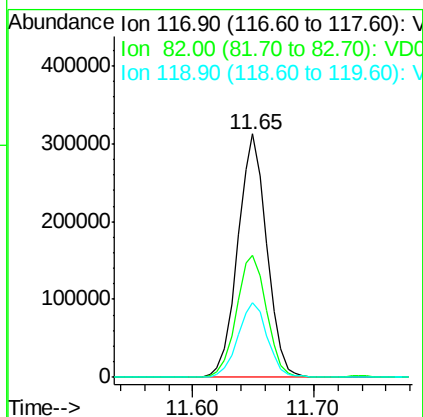
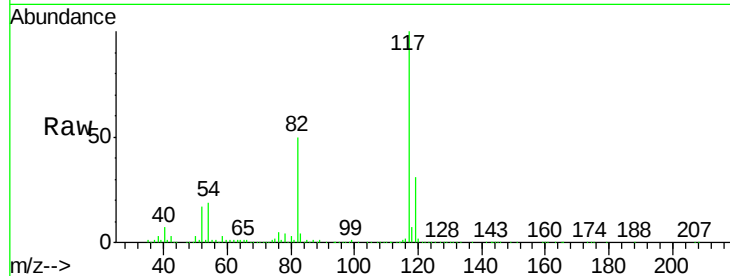




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

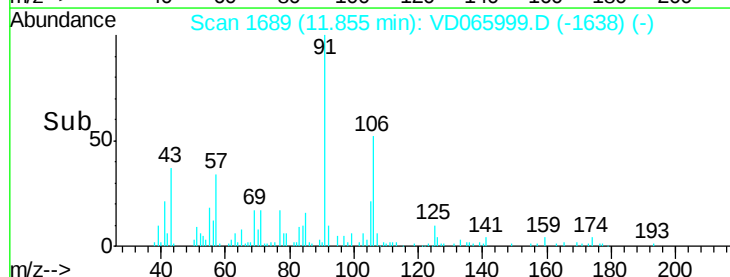
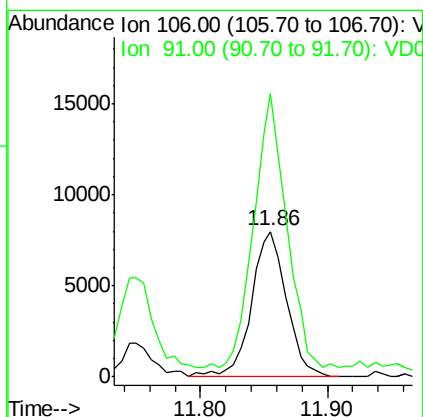
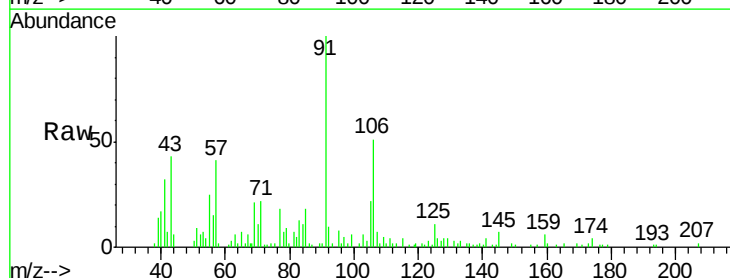
Instrument :
MSVOA_D
ClientSampleId :
225

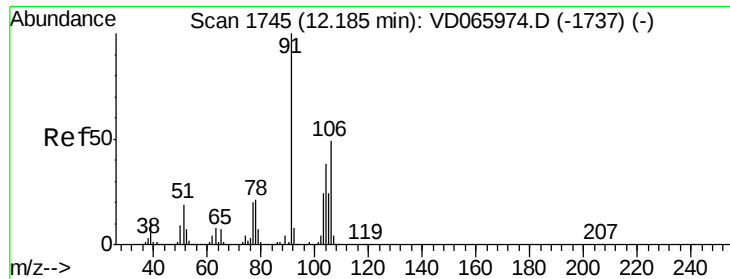
Tot Ion:117 Resp: 521766
Ion Ratio Lower Upper
117 100
82 49.9 41.1 61.7
119 30.7 25.9 38.9



#68
m/p-Xylenes
Concen: 2.437 ug/l
RT: 11.86 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

Tgt Ion:106 Resp: 15399
Ion Ratio Lower Upper
106 100
91 184.2 157.0 235.6

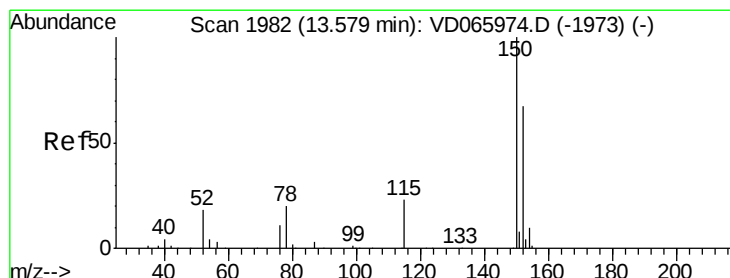
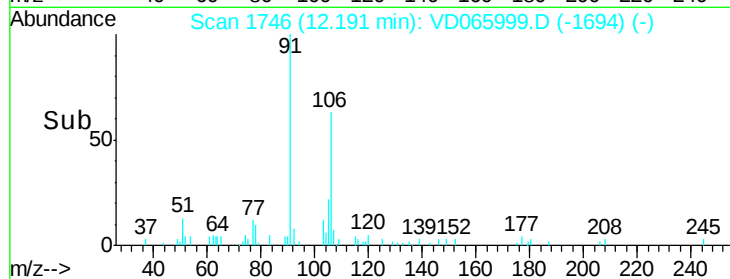
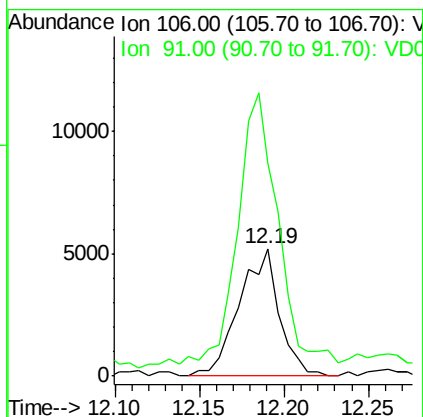
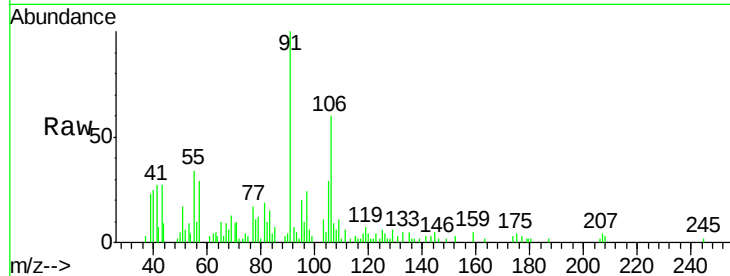




#69
o-Xylene
Concen: 1.505 ug/l
RT: 12.19 min Scan# 1746
Delta R.T. 0.01 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

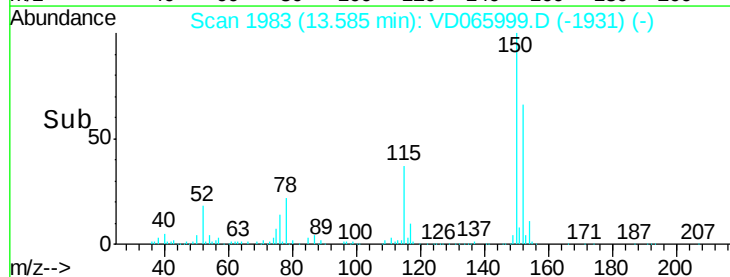
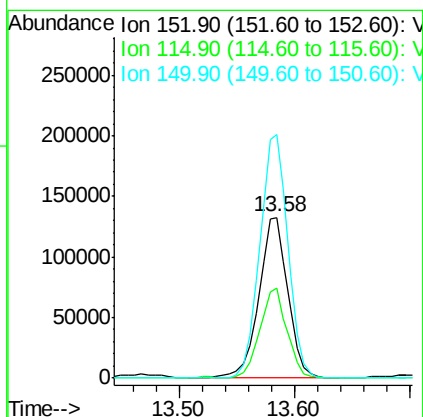
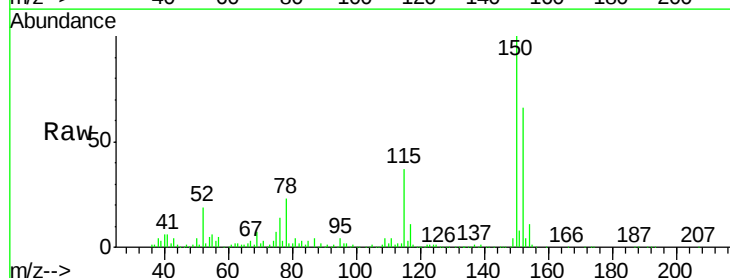
Instrument :
MSVOA_D
ClientSampleId :
225

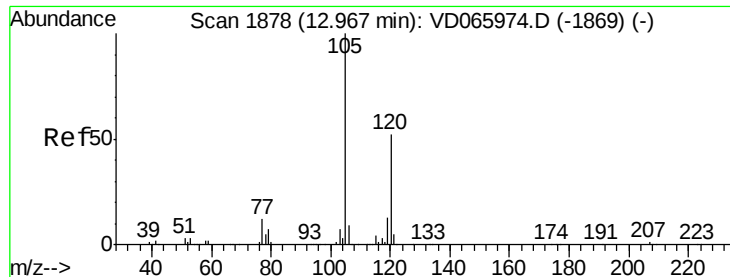
Tot Ion:106 Resp: 8647
Ion Ratio Lower Upper
106 100
91 224.0 103.1 309.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

Tgt Ion:152 Resp: 232597
Ion Ratio Lower Upper
152 100
115 51.8 27.9 83.7
150 146.7 0.0 348.2

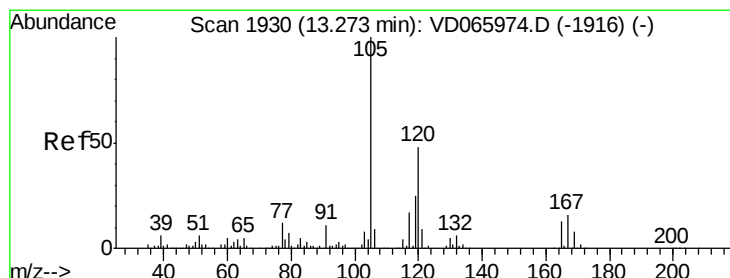
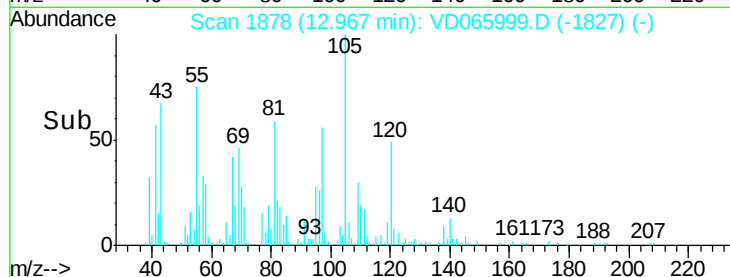
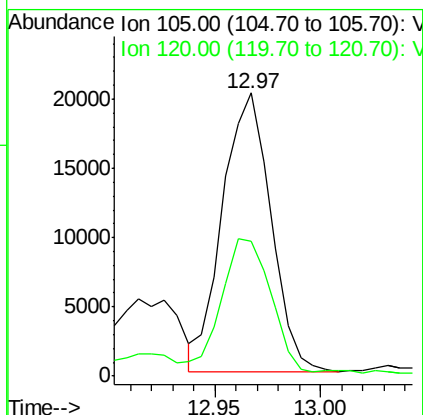
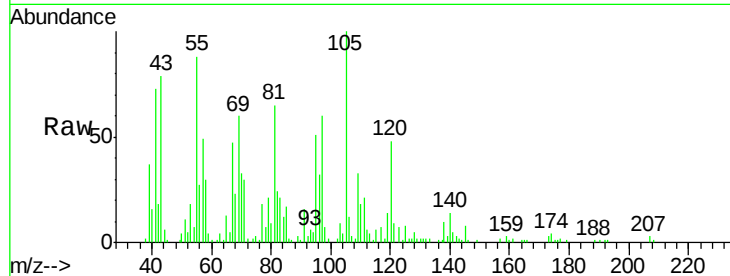




#80
 1,3,5-Trimethylbenzene
 Concen: 2.773 ug/l
 RT: 12.97 min Scan# 1878
 Delta R.T. 0.00 min
 Lab File: VD065999.D
 Acq: 22 Jul 2020 14:06

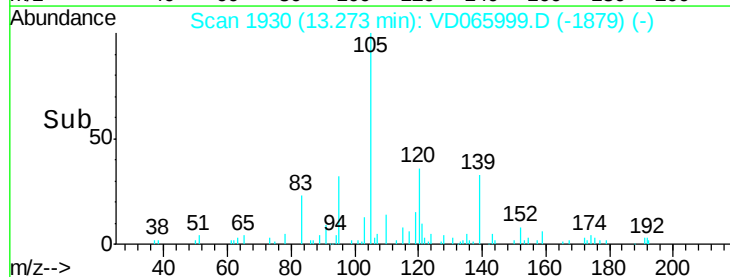
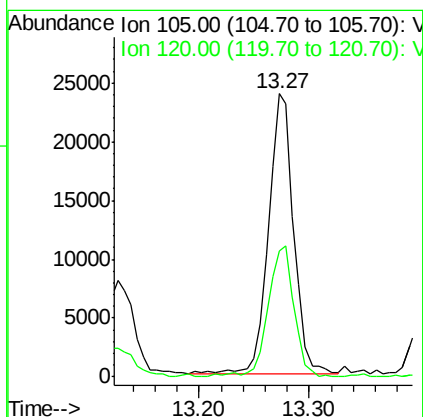
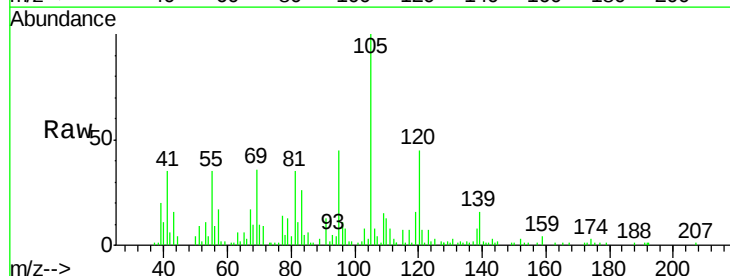
Instrument :
 MSVOA_D
 ClientSampleId :
 225

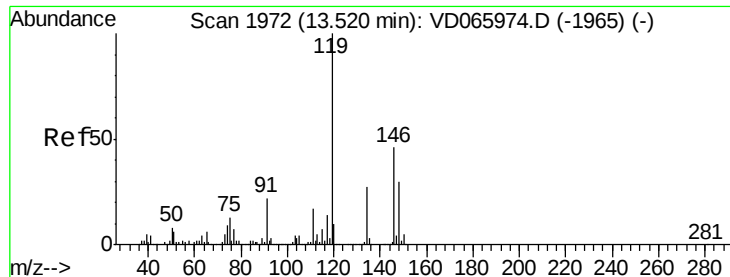
Tot Ion:105 Resp: 32063
 Ion Ratio Lower Upper
 105 100
 120 53.9 25.6 76.6



#84
 1,2,4-Trimethylbenzene
 Concen: 3.344 ug/l
 RT: 13.27 min Scan# 1930
 Delta R.T. 0.00 min
 Lab File: VD065999.D
 Acq: 22 Jul 2020 14:06

Tgt Ion:105 Resp: 38153
 Ion Ratio Lower Upper
 105 100
 120 48.6 23.9 71.8

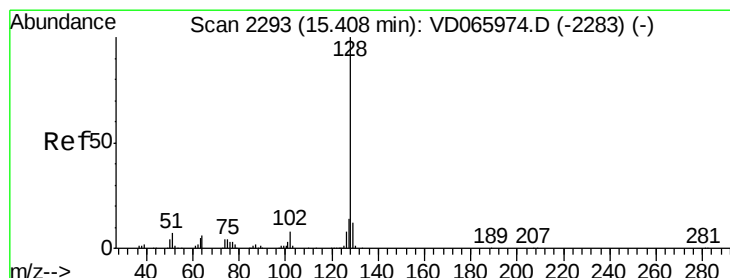
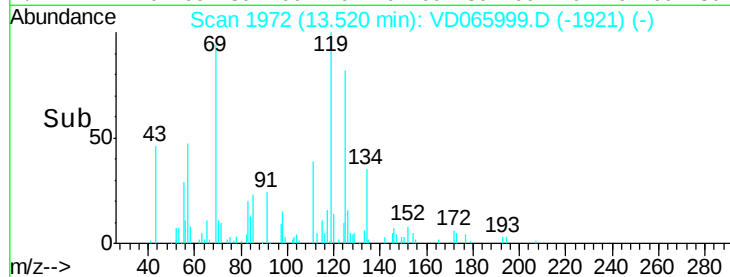
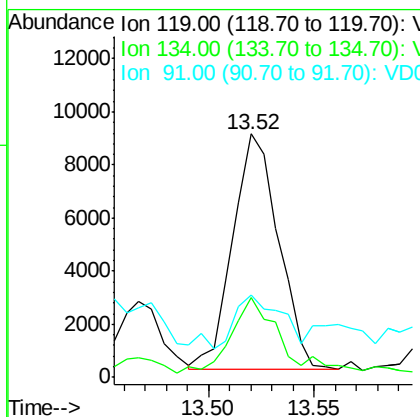
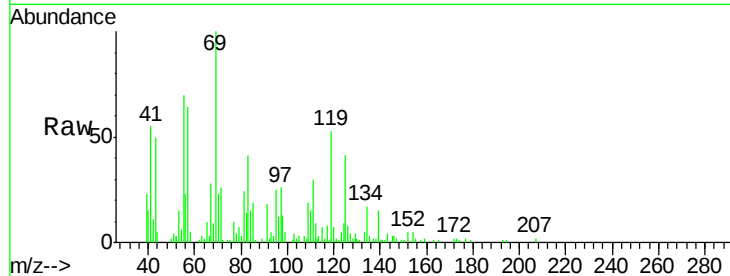




#86
p-Isopropyltoluene
Concen: 1.056 ug/l
RT: 13.52 min Scan# 1972
Delta R.T. 0.00 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

Instrument :
MSVOA_D
ClientSampleId :
225

Tot Ion	Ratio	Lower	Upper
119	100		
134	34.4	13.4	40.2
91	22.1	11.1	33.3



#95
Naphthalene
Concen: 9.852 ug/l
RT: 15.41 min Scan# 2293
Delta R.T. 0.00 min
Lab File: VD065999.D
Acq: 22 Jul 2020 14:06

Tgt Ion	Ratio	Lower	Upper
128	100		
127	20.3	10.8	16.2#
129	13.9	8.9	13.3#

