

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051219\
 Data File : VD062271.D
 Acq On : 12 May 2019 20:50
 Operator : FY/SY
 Sample : K2733-18
 Misc : 6.27g/5mL/MSVOA D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS003-1824-01

Quant Time: May 13 01:35:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	407800	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	558040	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.38	117	459007	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	222992	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	199243	52.57	ug/l	0.04
Spiked Amount			Recovery	=	105.14%	
35) Dibromofluoromethane	6.93	113	217092	46.89	ug/l	0.04
Spiked Amount			Recovery	=	93.78%	
50) Toluene-d8	10.42	98	453454	40.62	ug/l	0.02
Spiked Amount			Recovery	=	81.24%	
62) 4-Bromofluorobenzene	13.65	95	10156	2.27	ug/l	0.11
Spiked Amount			Recovery	=	4.54%	

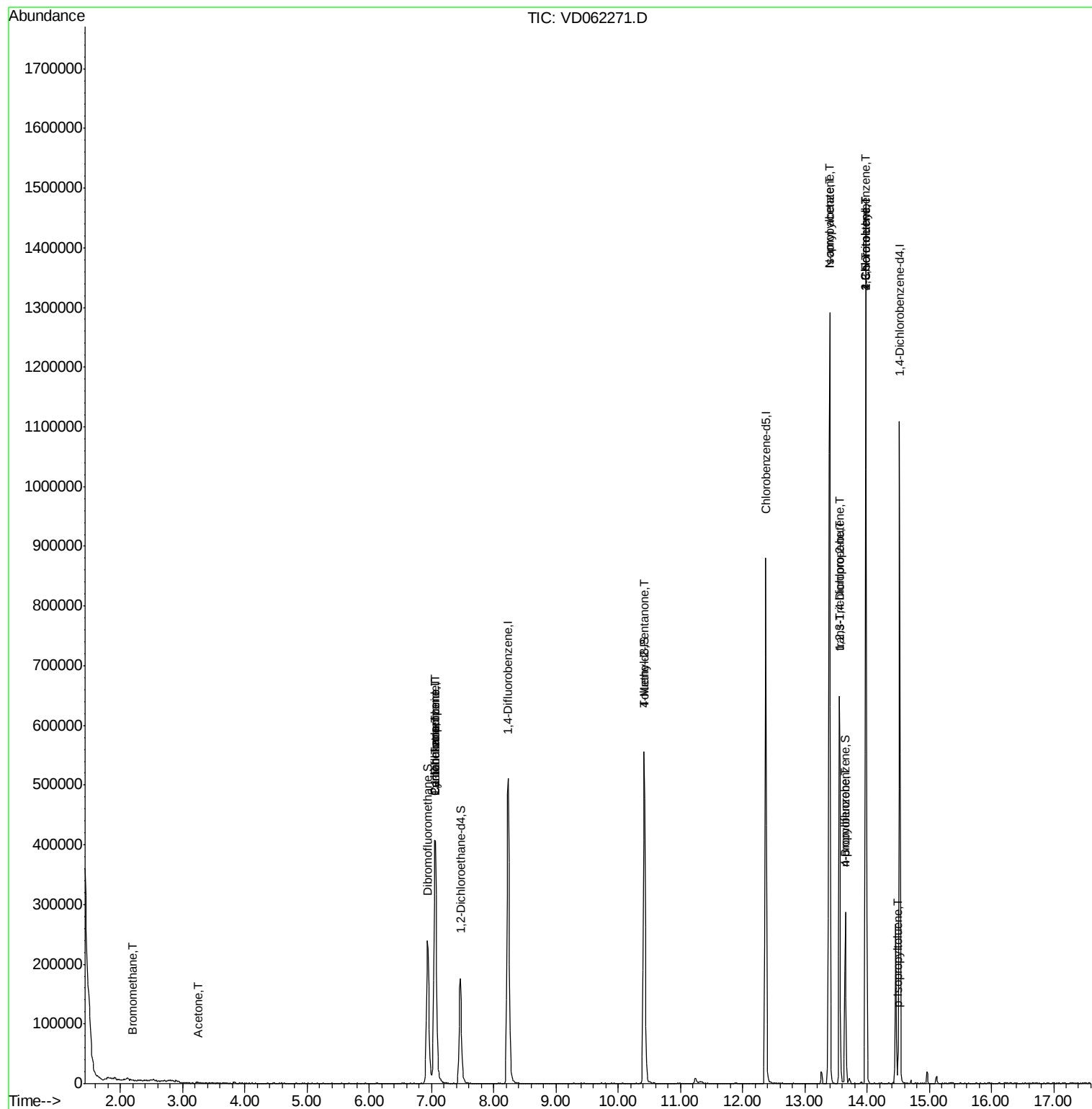
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.19	94	1410	2.173	ug/l #	12
16) Acetone	3.24	43	6025	7.581	ug/l #	50
18) Methyl Acetate	3.67	43	230	Below Cal	#	53
31) Cyclohexane	7.05	56	7988	2.009	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	33909	7.411	ug/l #	45
38) Carbon Tetrachloride	7.05	117	43620	6.888	ug/l #	15
51) 4-Methyl-2-Pentanone	10.43	43	2826	1.598	ug/l #	1
73) Isopropylbenzene	13.40	105	52213	3.906	ug/l #	61
74) N-amyl acetate	13.40	43	25288	7.216	ug/l #	18
76) 1,2,3-Trichloropropane	13.56	75	65839	24.844	ug/l #	43
78) n-propylbenzene	13.65	91	26655	1.672	ug/l #	54
79) 2-Chlorotoluene	13.98	91	127527	13.965	ug/l #	38
80) 1,3,5-Trimethylbenzene	13.98	105	15986	1.420	ug/l #	49
81) trans-1,4-Dichloro-2-buten	13.56	75	81346	108.732	ug/l #	16
82) 4-Chlorotoluene	13.98	91	143932	13.394	ug/l #	37
86) p-Isopropyltoluene	14.49	119	13220	1.067	ug/l	89

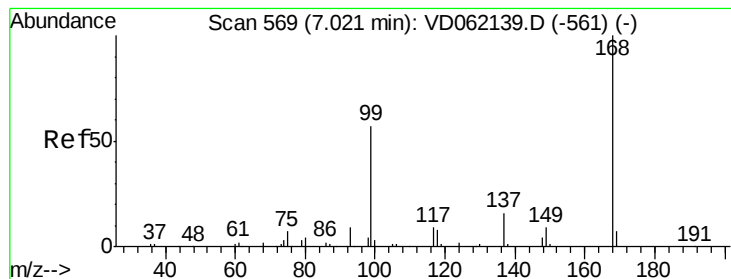
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD051219\
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QLast Update : Tue May 07 14:26:29 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Instrument :

MSVOA_D

ClientSampleId :

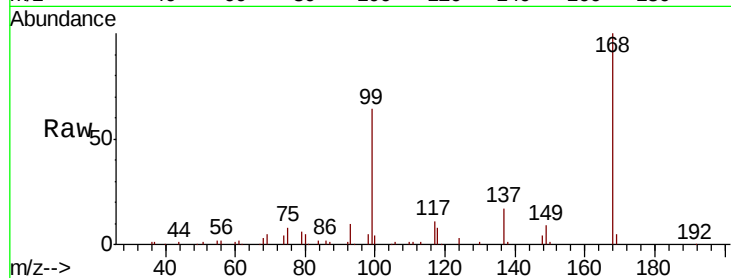
P021-SS003-1824-01

Tot Ion:168 Resp: 407800

Ion Ratio Lower Upper

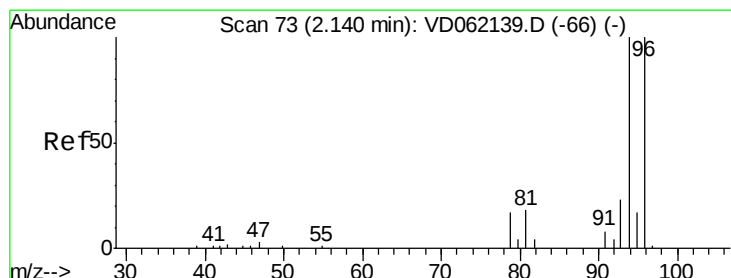
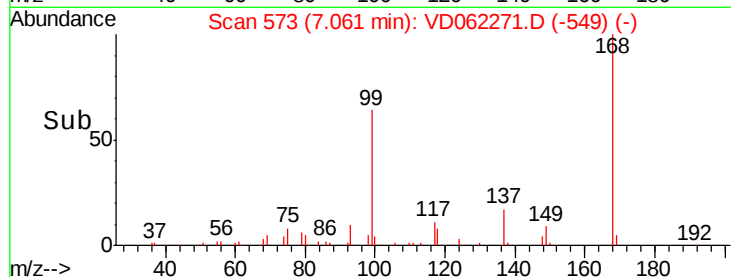
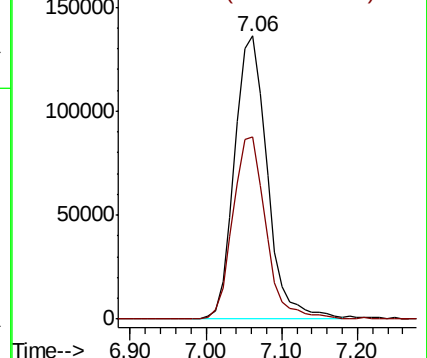
168 100

99 64.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 2.173 ug/l

RT: 2.19 min Scan# 78

Delta R.T. 0.05 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

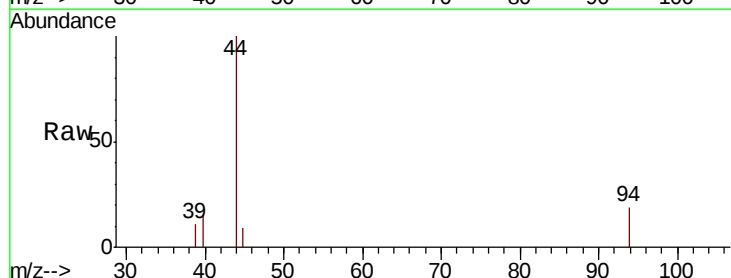
Tgt Ion: 94 Resp: 1410

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

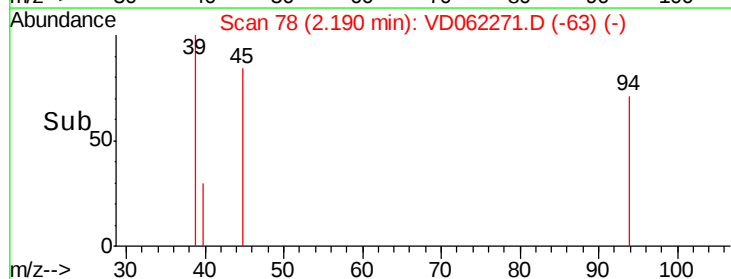
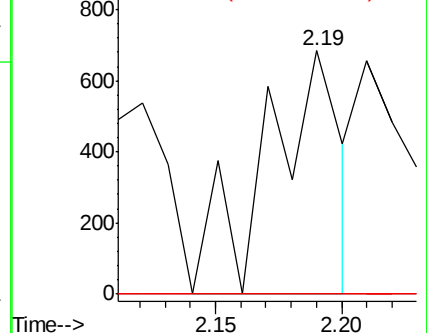
93 0.0 18.5 27.7#



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC





#16

Acetone

Concen: 7.581 ug/l

RT: 3.24 min Scan# 185

Delta R.T. 0.05 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Instrument :

MSVOA_D

ClientSampleId :

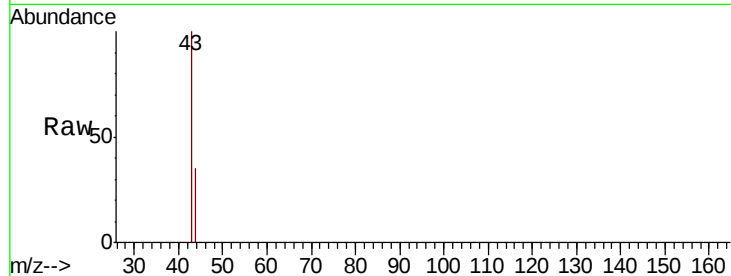
P021-SS003-1824-01

Tot Ion: 43 Resp: 6025

Ion Ratio Lower Upper

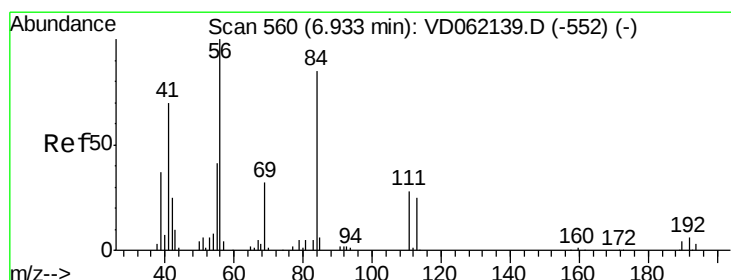
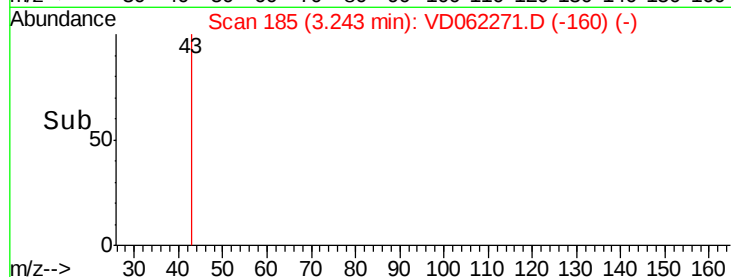
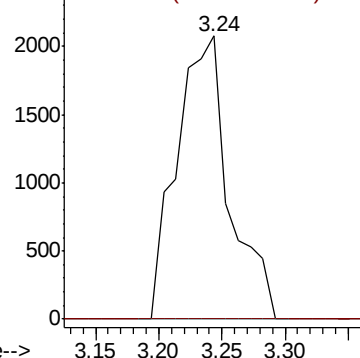
43 100

58 0.0 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#31

Cyclohexane

Concen: 2.009 ug/l

RT: 7.05 min Scan# 572

Delta R.T. 0.12 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

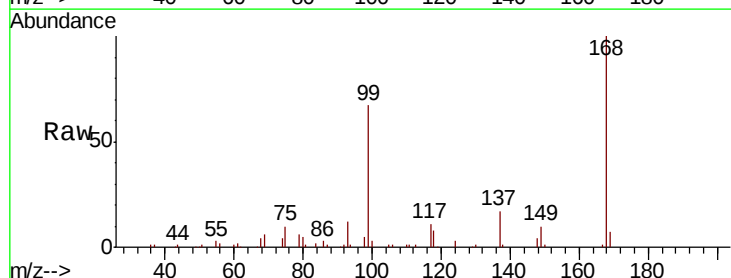
Tgt Ion: 56 Resp: 7988

Ion Ratio Lower Upper

56 100

69 256.1 25.8 38.6#

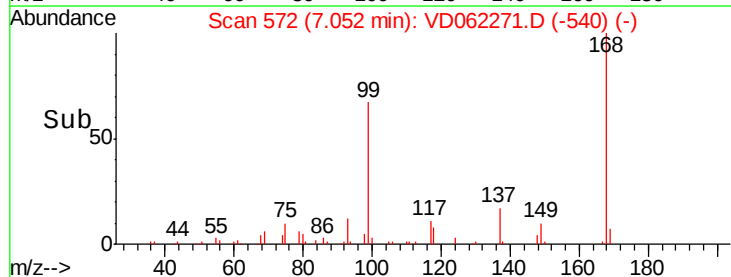
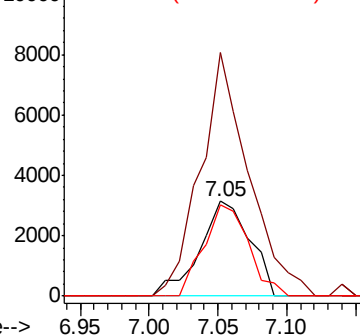
84 96.1 72.2 108.4



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 84.05 (83.75 to 84.75): VDC





#33

1,2-Dichloroethane-d4

Concen: 52.574 ug/l

RT: 7.46 min Scan# 614

Delta R.T. 0.04 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Instrument :

MSVOA_D

ClientSampleId :

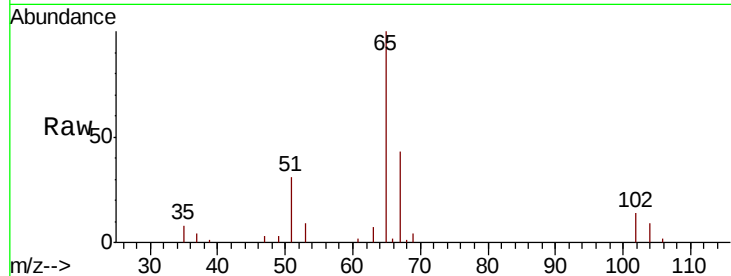
P021-SS003-1824-01

Tot Ion: 65 Resp: 199243

Ion Ratio Lower Upper

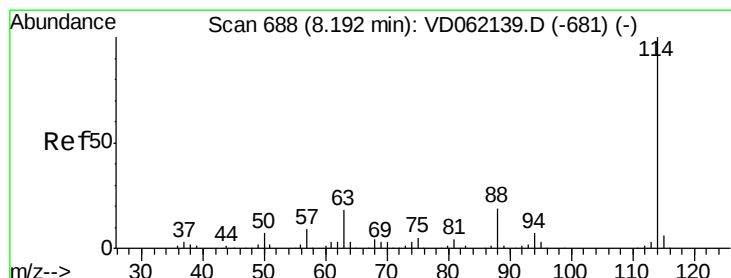
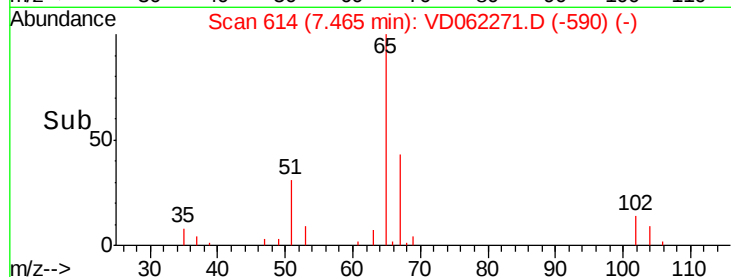
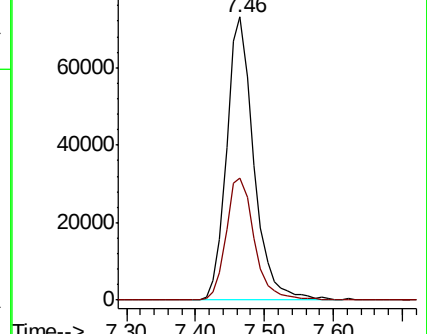
65 100

67 43.2 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 692

Delta R.T. 0.04 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

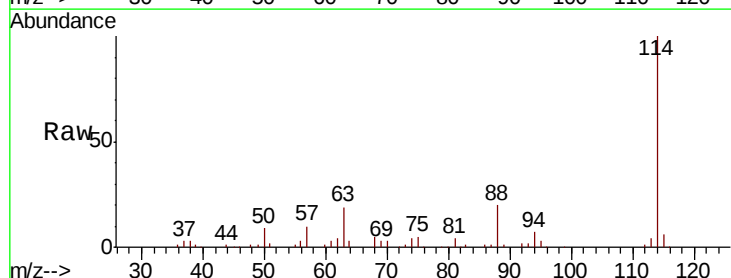
Tgt Ion: 114 Resp: 558040

Ion Ratio Lower Upper

114 100

63 18.7 0.0 32.4

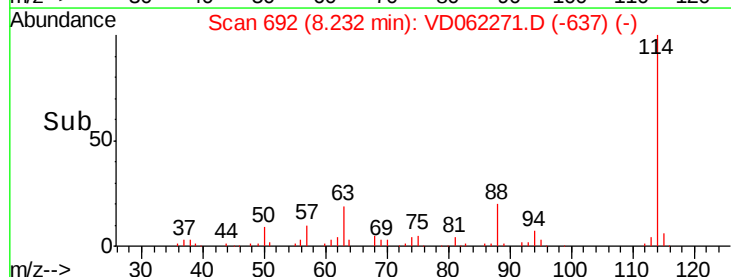
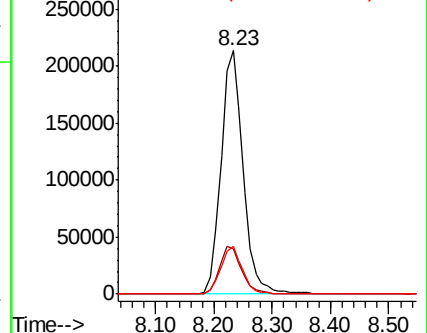
88 19.6 0.0 33.6

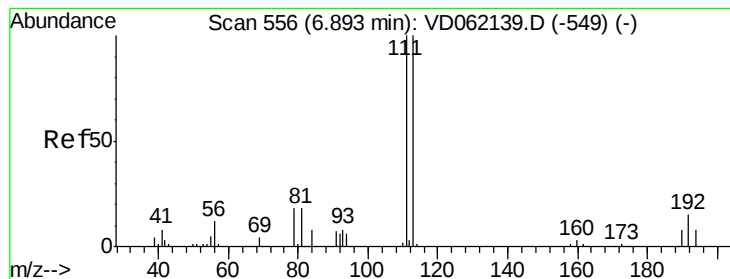


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 46.887 ug/l

RT: 6.93 min Scan# 560

Delta R.T. 0.04 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Instrument :

MSVOA_D

ClientSampleId :

P021-SS003-1824-01

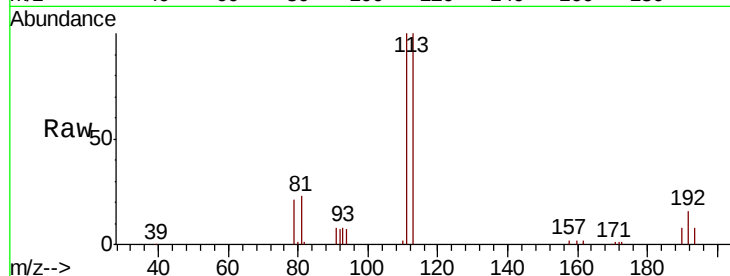
Tot Ion:113 Resp: 217092

Ion Ratio Lower Upper

113 100

111 100.4 78.5 117.7

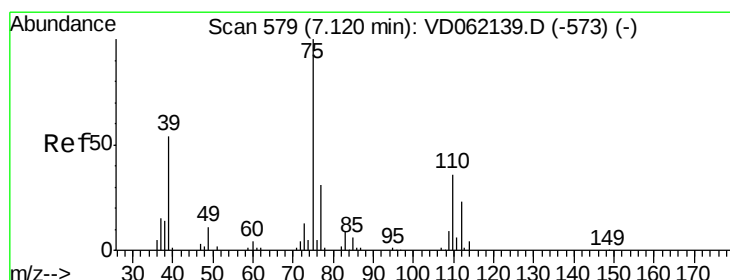
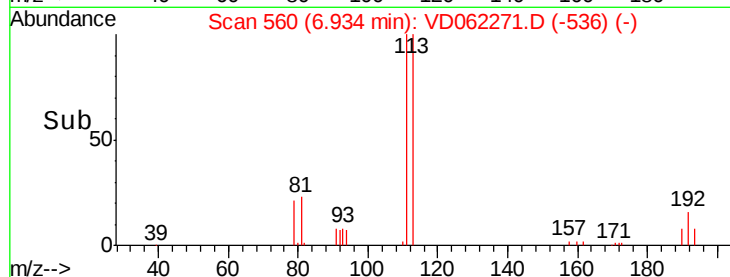
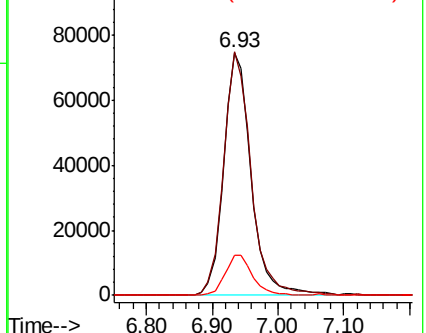
192 16.4 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V



#36

1,1-Dichloropropene

Concen: 7.411 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.07 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

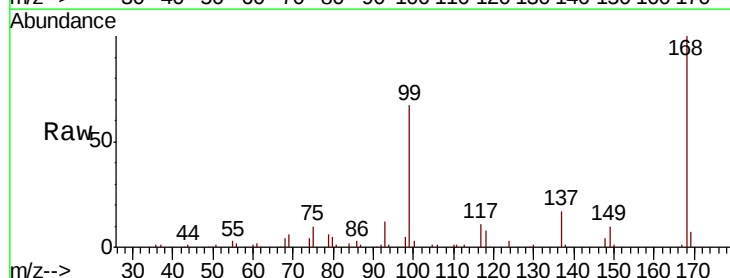
Tgt Ion: 75 Resp: 33909

Ion Ratio Lower Upper

75 100

110 6.4 19.1 57.1#

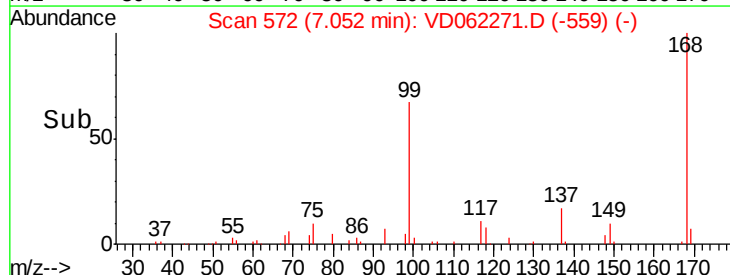
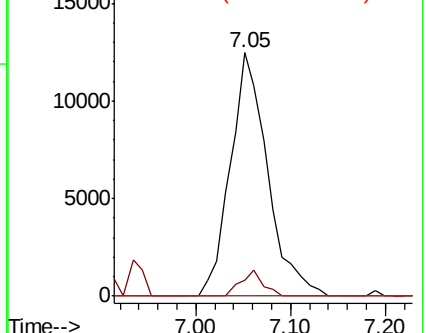
77 0.0 25.6 38.4#

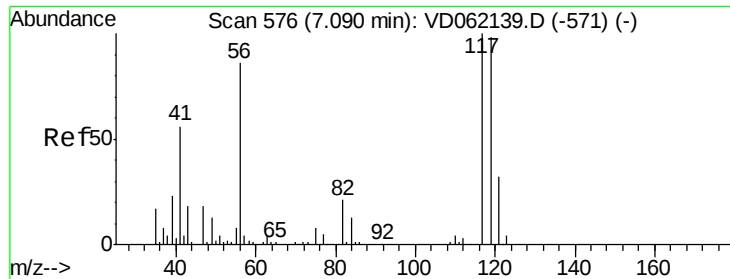


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

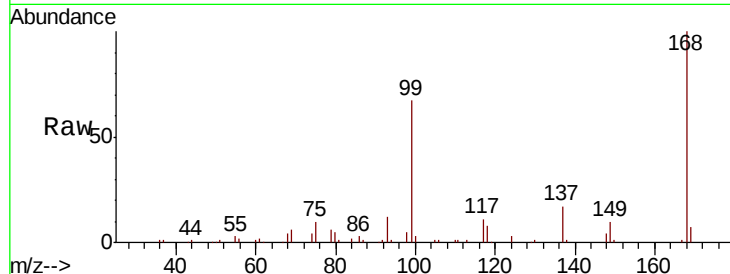




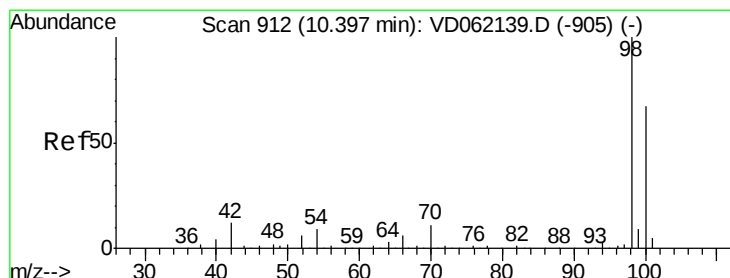
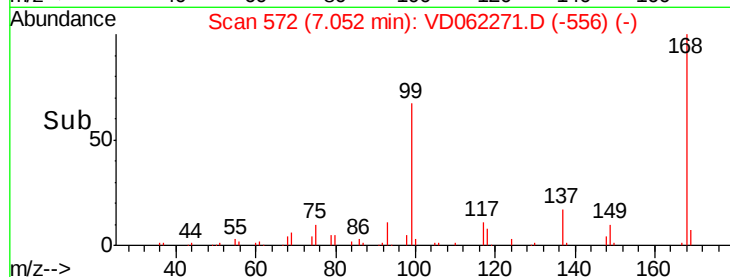
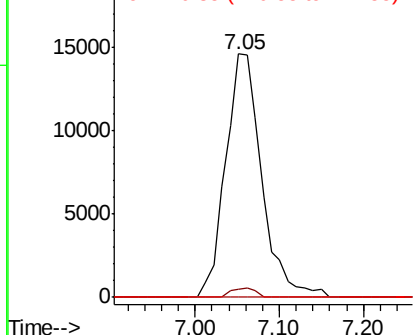
#38
Carbon Tetrachloride
Concen: 6.888 ug/l
RT: 7.05 min Scan# 572
Delta R.T. -0.04 min
Lab File: VD062271.D
Acq: 12 May 2019 20:50

Instrument :
MSVOA_D
ClientSampleId :
P021-SS003-1824-01

Tot Ion:117 Resp: 43620
Ion Ratio Lower Upper
117 100
119 3.2 75.8 113.8#
121 0.0 25.9 38.9#

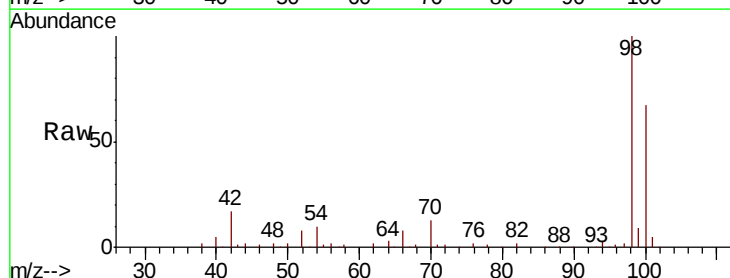


Abundance Ion 116.85 (116.55 to 117.55): V
Ion 118.85 (118.55 to 119.55): V
Ion 120.85 (120.55 to 121.55): V

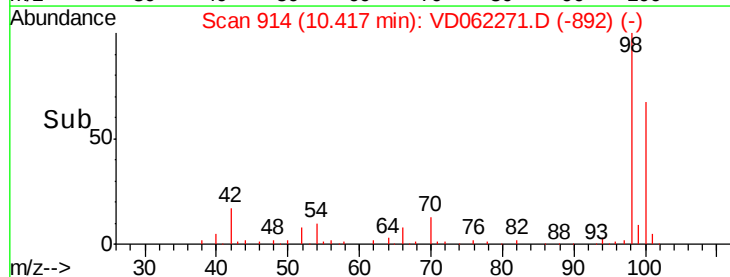
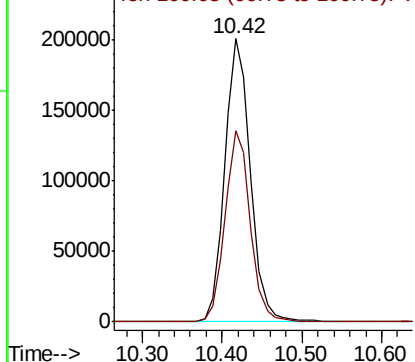


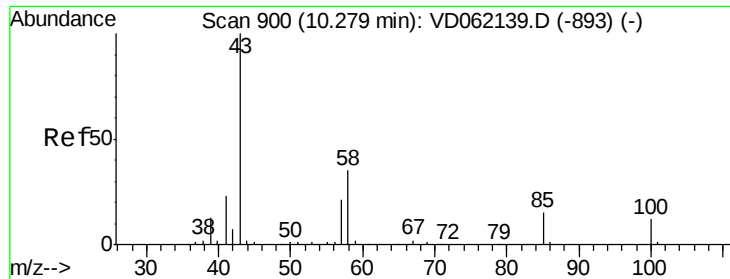
#50
Toluene-d8
Concen: 40.619 ug/l
RT: 10.42 min Scan# 914
Delta R.T. 0.02 min
Lab File: VD062271.D
Acq: 12 May 2019 20:50

Tgt Ion: 98 Resp: 453454
Ion Ratio Lower Upper
98 100
100 67.5 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V
Ion 100.05 (99.75 to 100.75): V





#51

4-Methyl-2-Pentanone

Concen: 1.598 ug/l

RT: 10.43 min Scan# 915

Delta R.T. 0.15 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Instrument :

MSVOA_D

ClientSampleId :

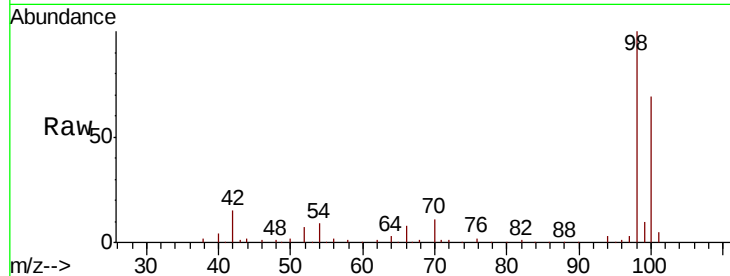
P021-SS003-1824-01

Tot Ion: 43 Resp: 2826

Ion Ratio Lower Upper

43 100

58 115.3 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

10.43

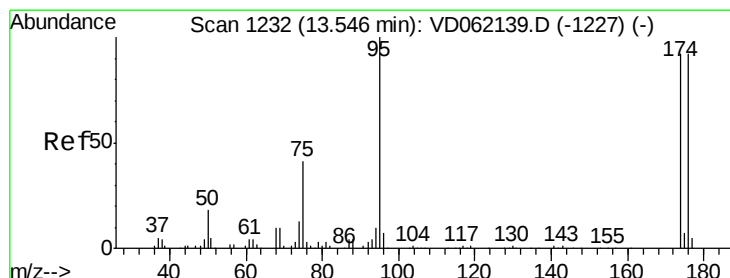
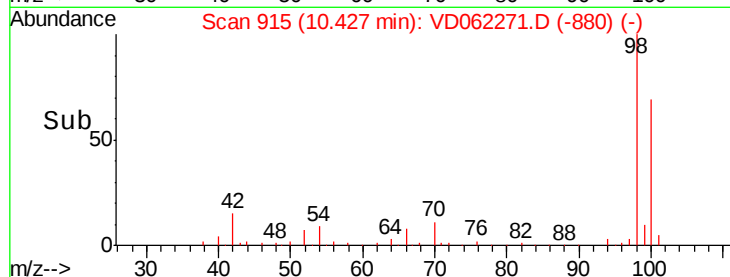
1500

1000

500

0

Time--> 10.35 10.40 10.45



#62

4-Bromofluorobenzene

Concen: 2.266 ug/l

RT: 13.65 min Scan# 1243

Delta R.T. 0.11 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

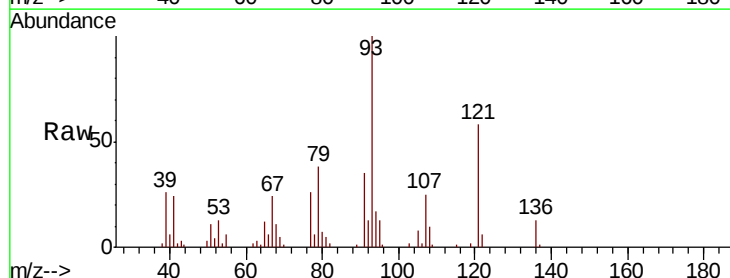
Tgt Ion: 95 Resp: 10156

Ion Ratio Lower Upper

95 100

174 0.0 0.0 181.8

176 0.0 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

13.65

8000

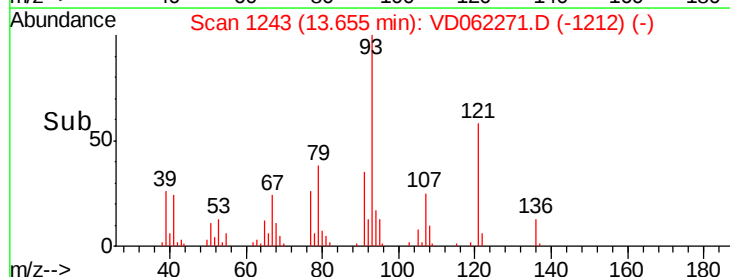
6000

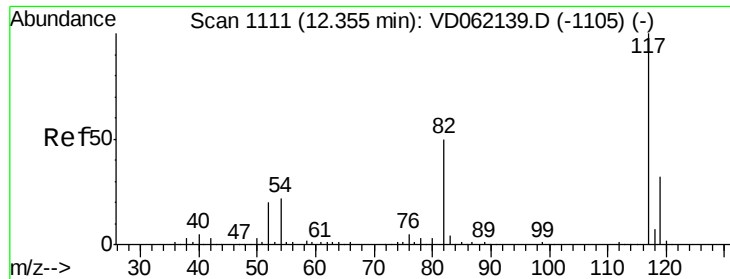
4000

2000

0

Time--> 13.60 13.65 13.70

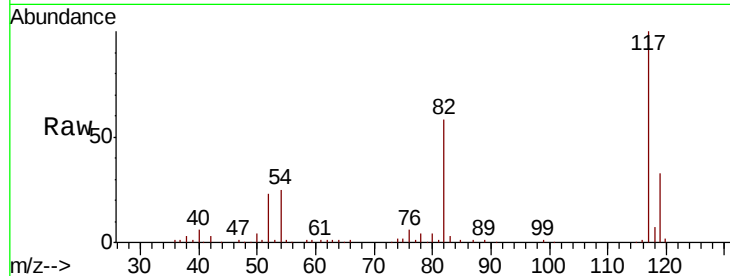




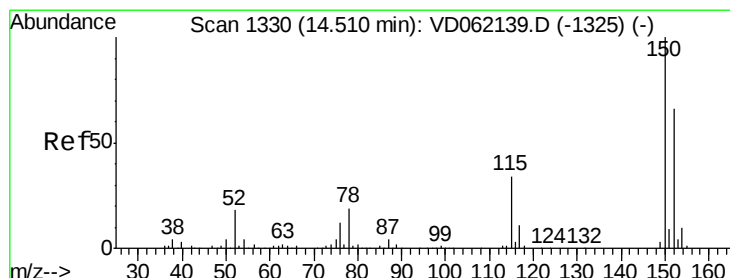
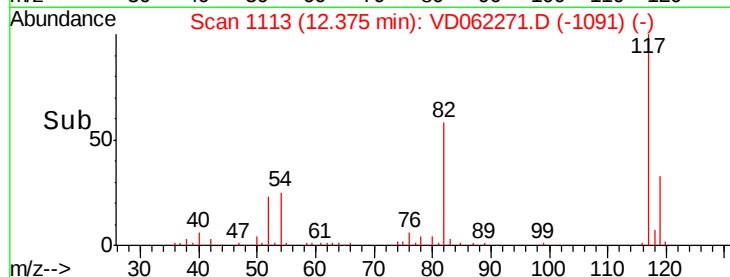
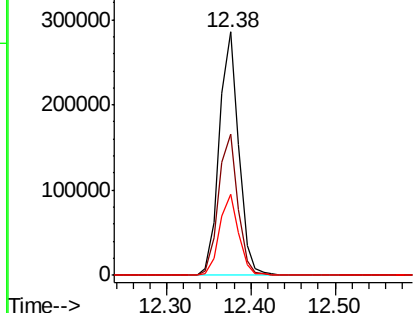
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. 0.02 min
Lab File: VD062271.D
Acq: 12 May 2019 20:50

Instrument :
MSVOA_D
ClientSampleId :
P021-SS003-1824-01

Tot Ion:117 Resp: 459007
Ion Ratio Lower Upper
117 100
82 58.2 36.2 54.2#
119 33.0 26.2 39.4

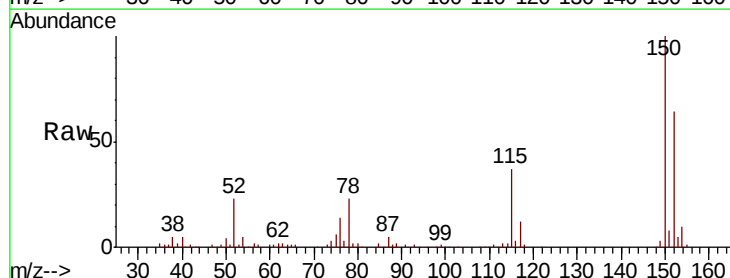


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

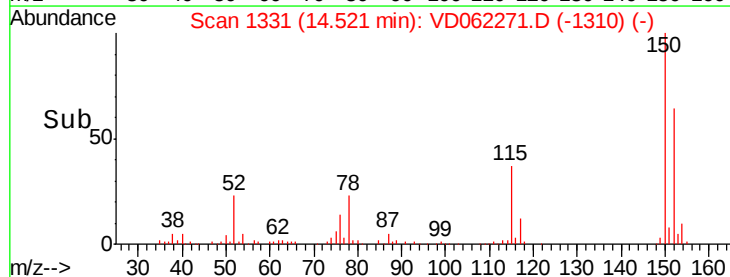
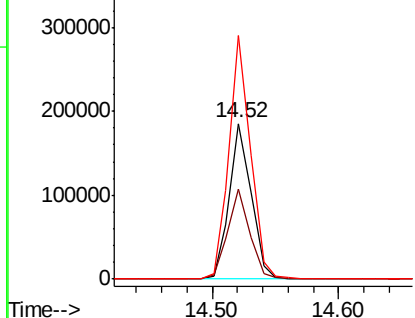


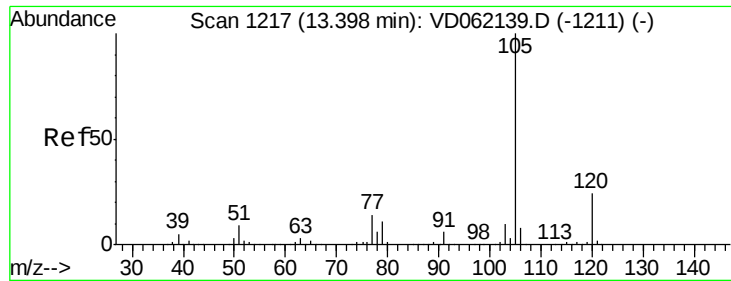
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.52 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD062271.D
Acq: 12 May 2019 20:50

Tgt Ion:152 Resp: 222992
Ion Ratio Lower Upper
152 100
115 58.3 30.9 92.7
150 156.7 0.0 314.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 3.906 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.00 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Instrument :

MSVOA_D

ClientSampleId :

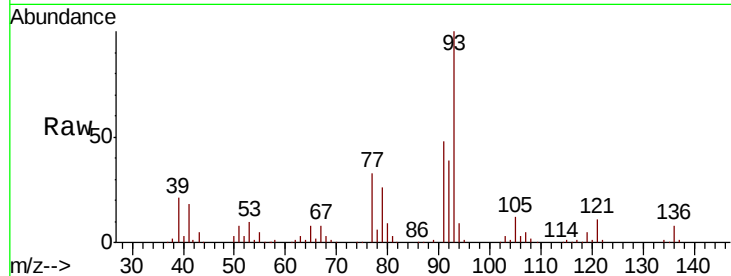
P021-SS003-1824-01

Tot Ion: 105 Resp: 52213

Ion Ratio Lower Upper

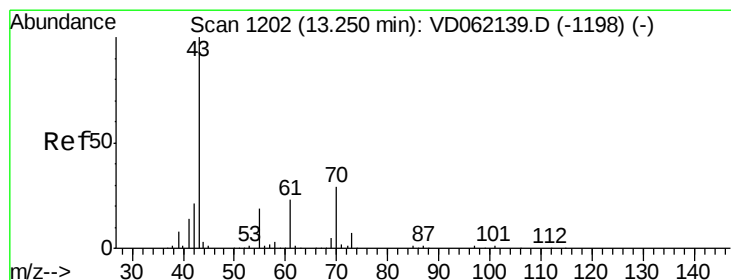
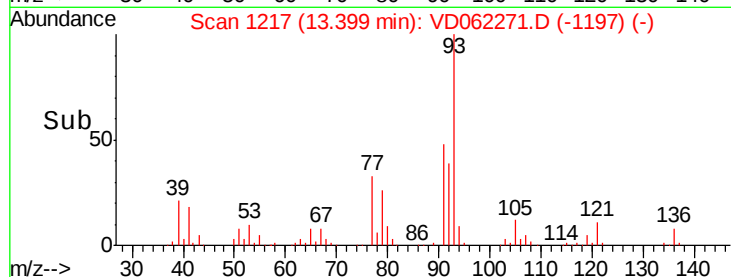
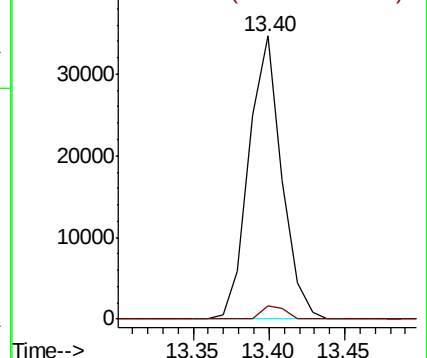
105 100

120 4.6 12.0 36.1#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V



#74

N-ethyl acetate

Concen: 7.216 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.15 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Tgt Ion: 43 Resp: 25288

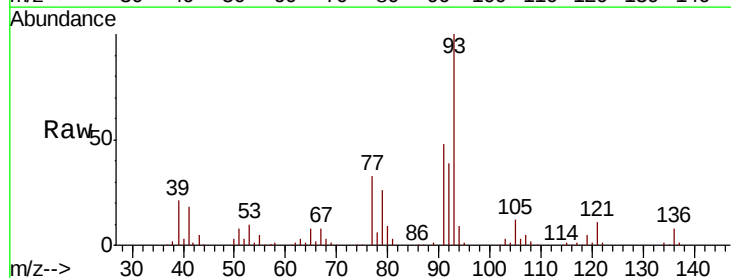
Ion Ratio Lower Upper

43 100

70 2.2 24.2 36.4#

55 103.8 16.0 24.0#

61 4.8 21.6 32.4#

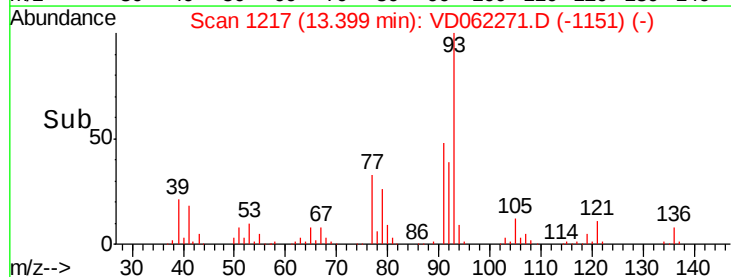
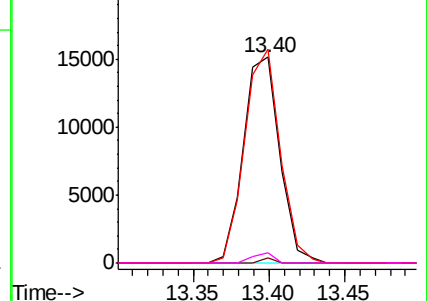


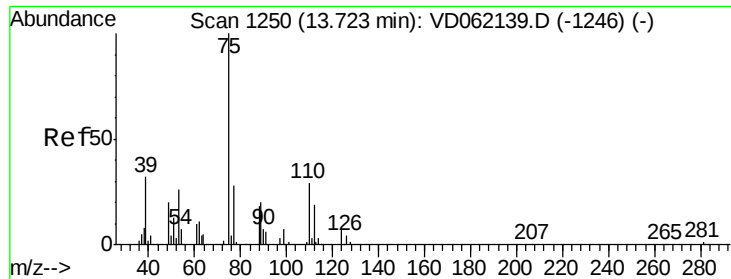
Abundance Ion 42.95 (42.65 to 43.65): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 60.95 (60.65 to 61.65): V





#76

1,2,3-Trichloropropane

Concen: 24.844 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.17 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Instrument :

MSVOA_D

ClientSampleId :

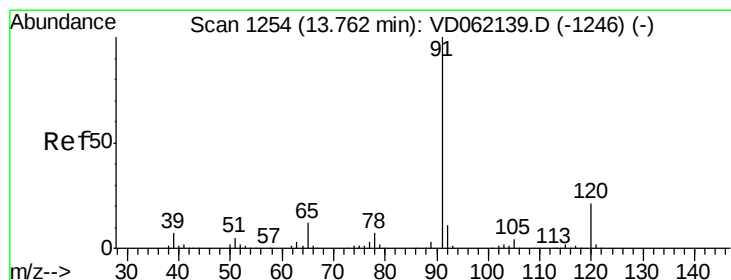
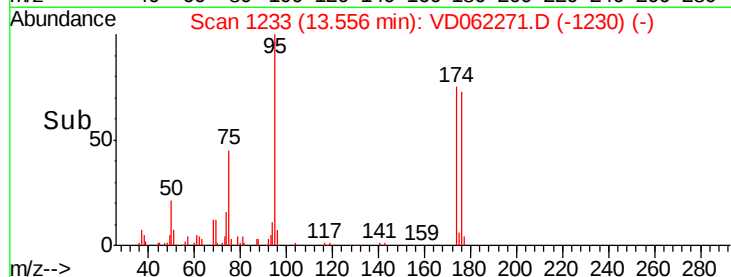
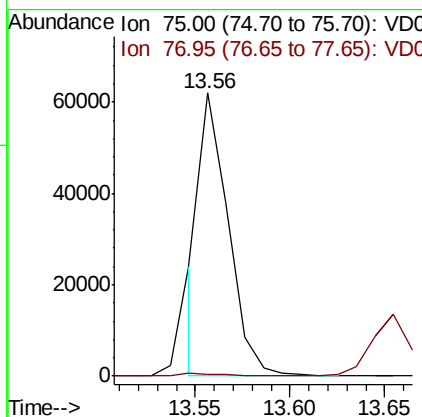
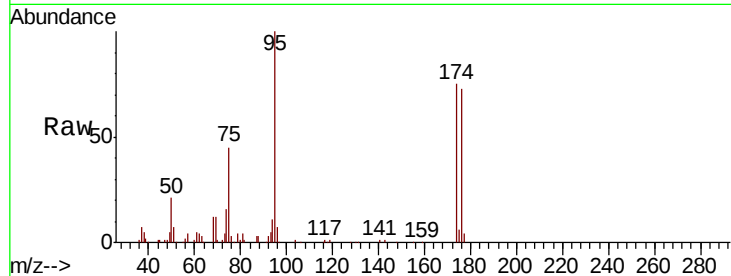
P021-SS003-1824-01

Tot Ion: 75 Resp: 65839

Ion Ratio Lower Upper

75 100

77 0.7 16.4 49.4#



#78

n-propylbenzene

Concen: 1.672 ug/l

RT: 13.65 min Scan# 1243

Delta R.T. -0.11 min

Lab File: VD062271.D

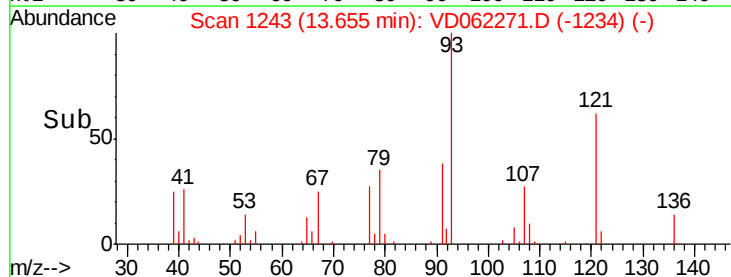
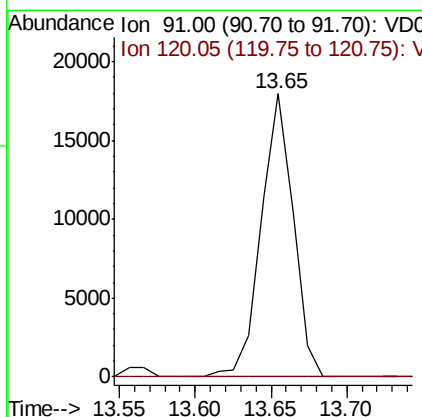
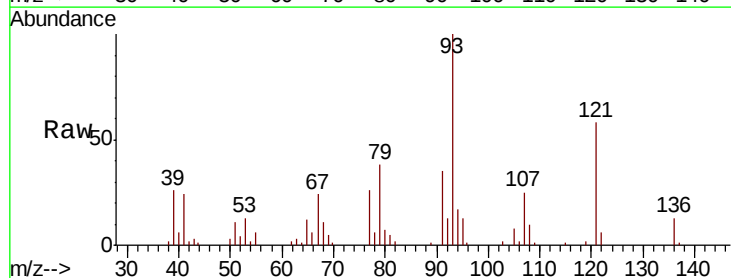
Acq: 12 May 2019 20:50

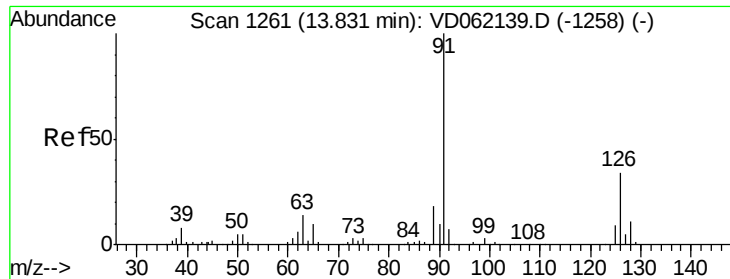
Tgt Ion: 91 Resp: 26655

Ion Ratio Lower Upper

91 100

120 0.0 11.1 33.1#





#79

2-Chlorotoluene

Concen: 13.965 ug/l

RT: 13.98 min Scan# 1276

Delta R.T. 0.15 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Instrument :

MSVOA_D

ClientSampleId :

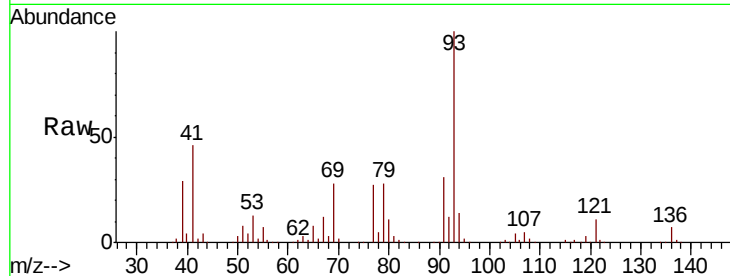
P021-SS003-1824-01

Tot Ion: 91 Resp: 127527

Ion Ratio Lower Upper

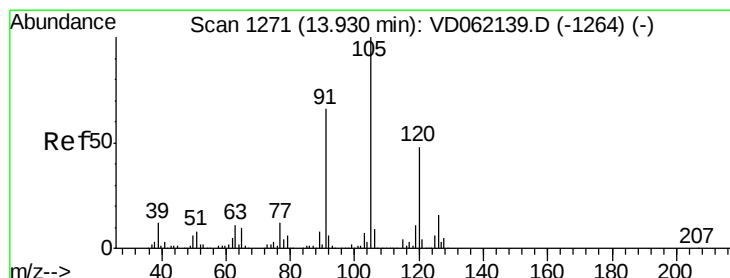
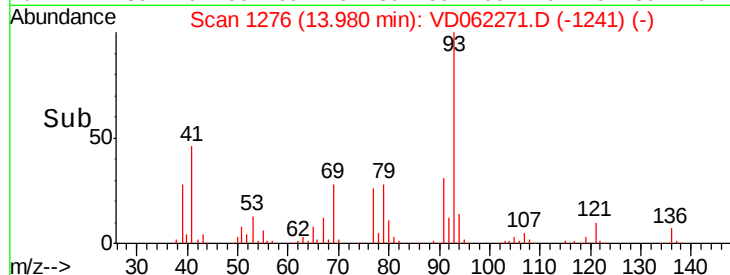
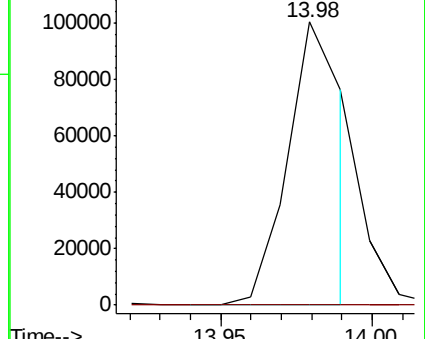
91 100

126 0.0 18.6 55.8#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 125.95 (125.65 to 126.65): V



#80

1,3,5-Trimethylbenzene

Concen: 1.420 ug/l

RT: 13.98 min Scan# 1276

Delta R.T. 0.05 min

Lab File: VD062271.D

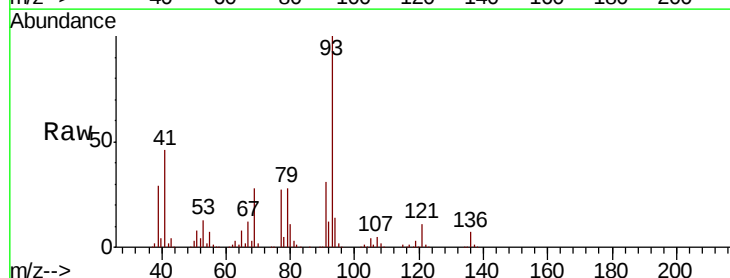
Acq: 12 May 2019 20:50

Tgt Ion:105 Resp: 15986

Ion Ratio Lower Upper

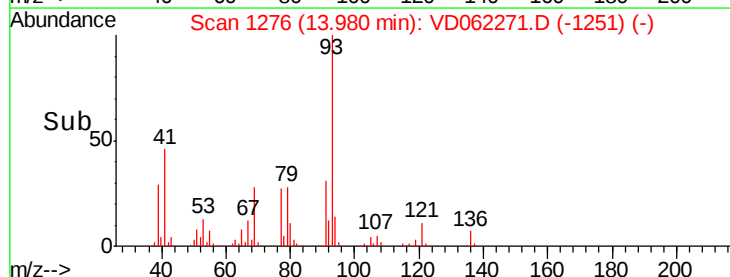
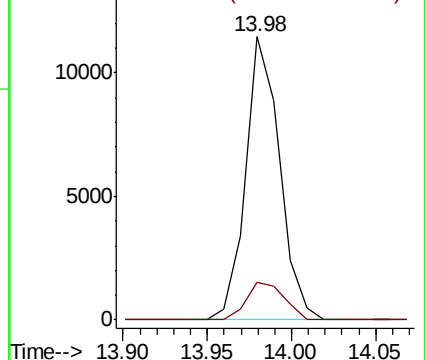
105 100

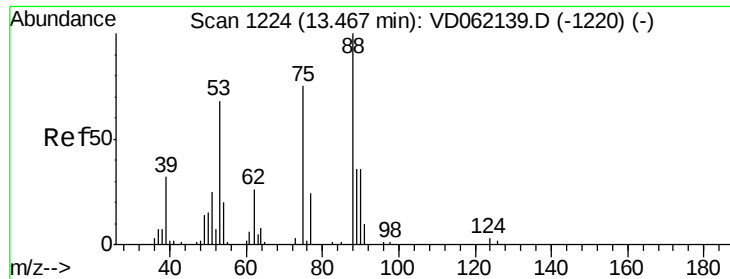
120 13.5 24.0 72.0#



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

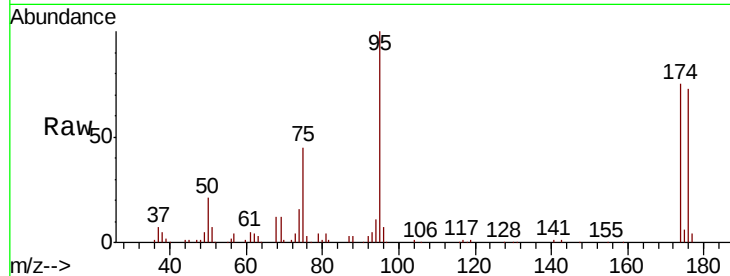




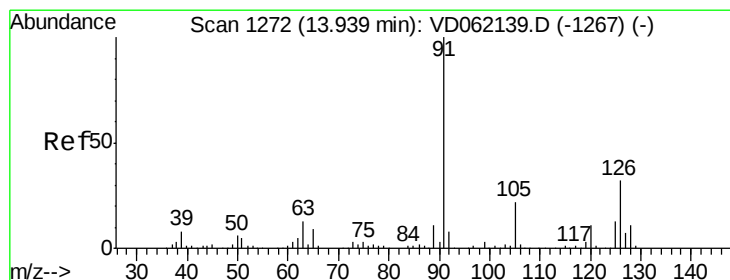
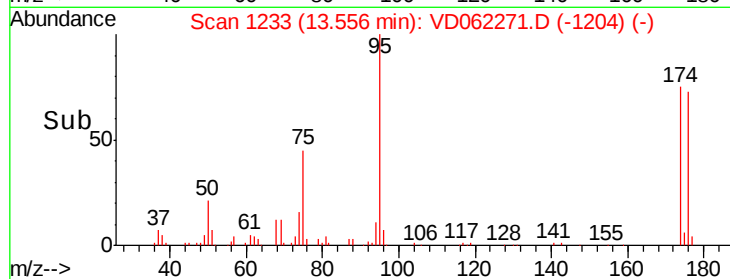
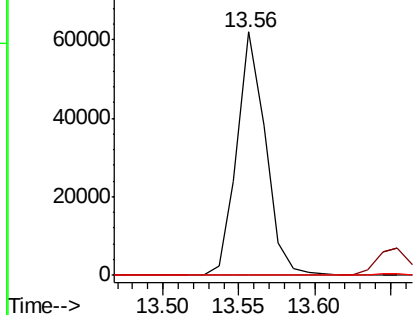
#81
trans-1,4-Dichloro-2-butene
Concen: 108.732 ug/l
RT: 13.56 min Scan# 1233
Delta R.T. 0.09 min
Lab File: VD062271.D
Acq: 12 May 2019 20:50

Instrument :
MSVOA_D
ClientSampleId :
P021-SS003-1824-01

Tot Ion: 75 Resp: 81346
Ion Ratio Lower Upper
75 100
53 0.0 65.8 98.8#
89 0.0 35.0 52.6#

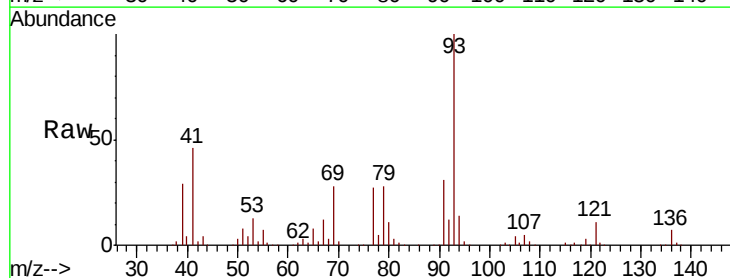


Abundance Ion 75.00 (74.70 to 75.70): VDC
Ion 53.00 (52.70 to 53.70): VDC
Ion 89.00 (88.70 to 89.70): VDC

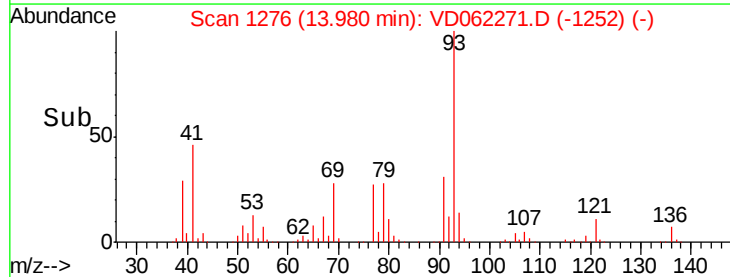
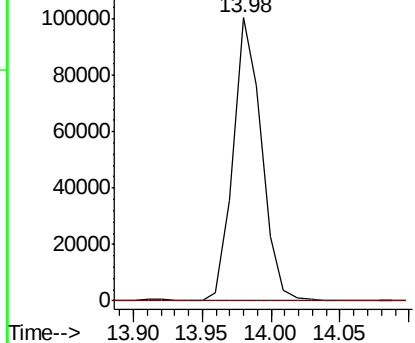


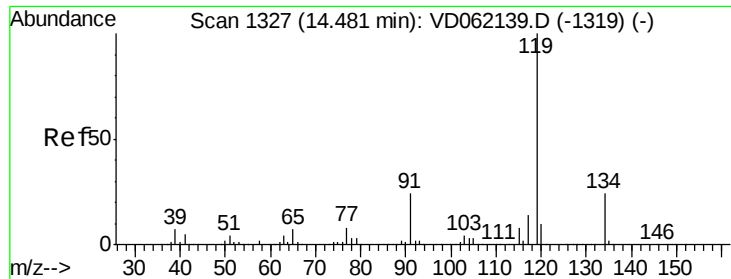
#82
4-Chlorotoluene
Concen: 13.394 ug/l
RT: 13.98 min Scan# 1276
Delta R.T. 0.04 min
Lab File: VD062271.D
Acq: 12 May 2019 20:50

Tgt Ion: 91 Resp: 143932
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.5#



Abundance Ion 91.00 (90.70 to 91.70): VDC
Ion 125.95 (125.65 to 126.65): V





#86

p-Isopropyltoluene

Concen: 1.067 ug/l

RT: 14.49 min Scan# 1328

Delta R.T. 0.01 min

Lab File: VD062271.D

Acq: 12 May 2019 20:50

Instrument :

MSVOA_D

ClientSampleId :

P021-SS003-1824-01

Tot Ion:119 Resp: 13220

Ion Ratio Lower Upper

119 100

134 21.4 12.8 38.3

91 28.4 10.7 32.1

