

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD051219\
 Data File : VD062263.D
 Acq On : 12 May 2019 17:10
 Operator : FY/SY
 Sample : K2733-08
 Misc : 6.26g/5mL/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 P021-SS001-1824-01

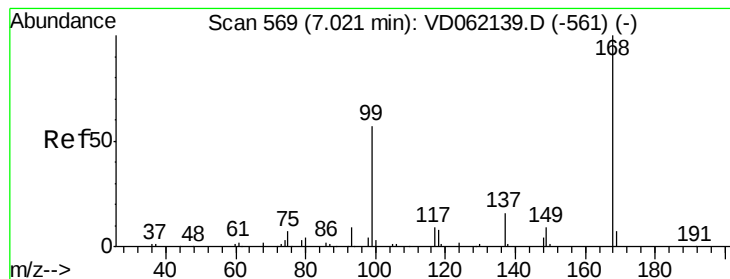
Quant Time: May 13 01:34:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D050719S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 07 14:26:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	277891	50.00	ug/l	0.04
34) 1,4-Difluorobenzene	8.23	114	468198	50.00	ug/l	0.04
63) Chlorobenzene-d5	12.37	117	309913	50.00	ug/l	0.02
72) 1,4-Dichlorobenzene-d4	14.52	152	106956	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.46	65	231645	89.70	ug/l	0.04
Spiked Amount			Recovery	=	179.40%	
35) Dibromofluoromethane	6.94	113	253282	65.20	ug/l	0.05
Spiked Amount			Recovery	=	130.40%	
50) Toluene-d8	10.42	98	300430	32.08	ug/l	0.02
Spiked Amount			Recovery	=	64.16%	
62) 4-Bromofluorobenzene	13.56	95	121582	32.33	ug/l	0.02
Spiked Amount			Recovery	=	64.66%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.12	94	834	1.886	ug/l #	12
16) Acetone	3.22	43	24551	45.333	ug/l #	84
18) Methyl Acetate	3.66	43	4268	4.128	ug/l #	53
20) Methylene Chloride	3.83	84	11508	5.089	ug/l #	89
25) 2-Butanone	6.09	43	2531	4.285	ug/l #	56
31) Cyclohexane	7.05	56	5354	1.976	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	21421	5.580	ug/l #	47
37) Ethyl Acetate	6.09	43	2531	1.555	ug/l #	64
38) Carbon Tetrachloride	7.06	117	29328	5.520	ug/l #	15
73) Isopropylbenzene	13.40	105	59122	9.222	ug/l #	61
74) N-amyl acetate	13.40	43	30628	18.221	ug/l #	15
76) 1,2,3-Trichloropropane	13.56	75	45969	36.165	ug/l #	45
79) 2-Chlorotoluene	13.92	91	37443	8.548	ug/l #	38
81) trans-1,4-Dichloro-2-buten	13.40	75	1906	5.312	ug/l #	1
82) 4-Chlorotoluene	13.92	91	37443	7.264	ug/l #	37
86) p-Isopropyltoluene	14.49	119	80469	13.537	ug/l	90

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.04 min

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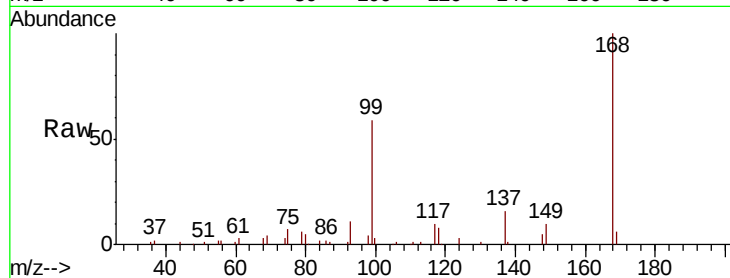
P021-SS001-1824-01

Tot Ion:168 Resp: 277891

Ion Ratio Lower Upper

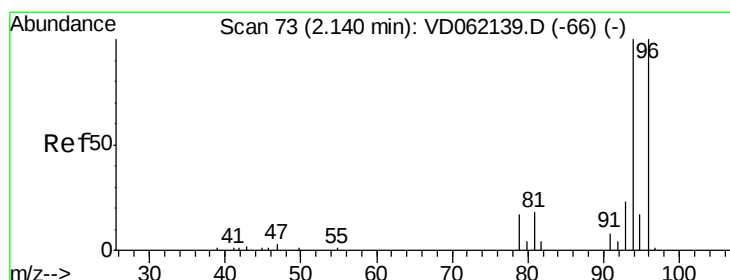
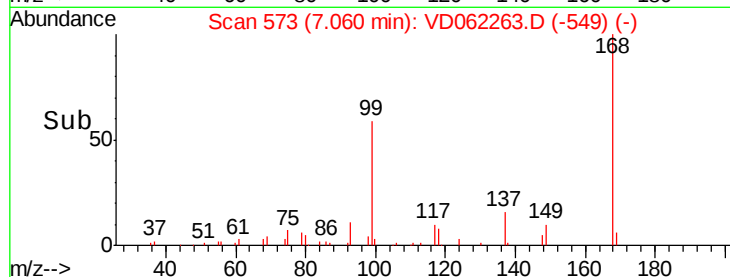
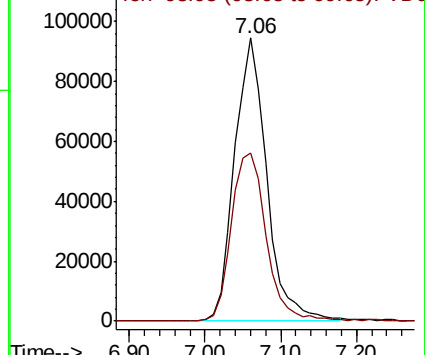
168 100

99 59.4 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: 1.886 ug/l

RT: 2.12 min Scan# 71

Delta R.T. -0.02 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

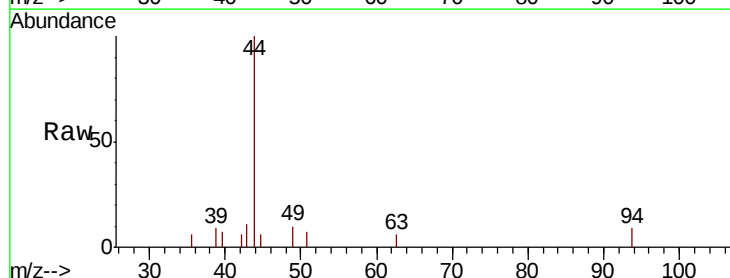
Tgt Ion: 94 Resp: 834

Ion Ratio Lower Upper

94 100

96 0.0 76.6 115.0#

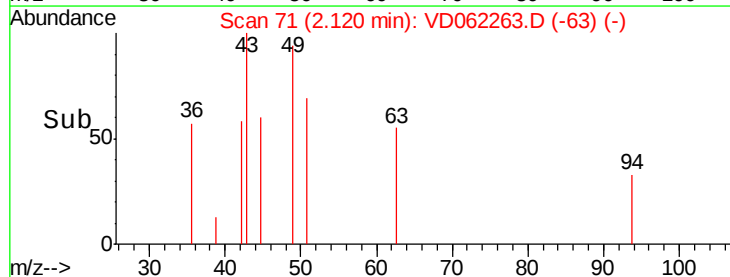
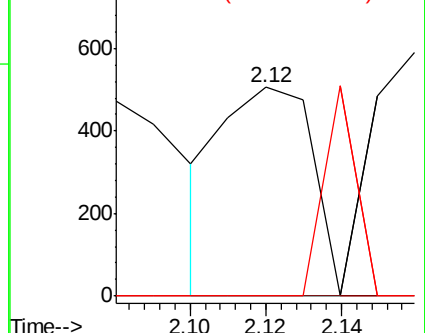
93 0.0 18.5 27.7#



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: 45.333 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.03 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

Instrument :

MSVOA_D

ClientSampleId :

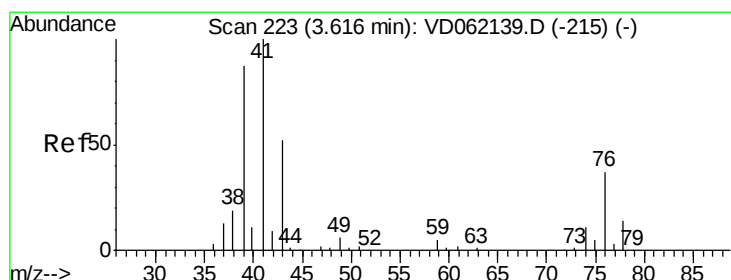
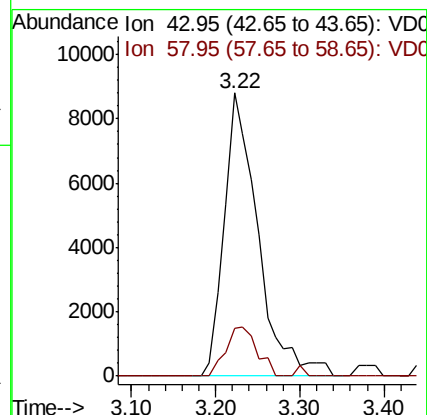
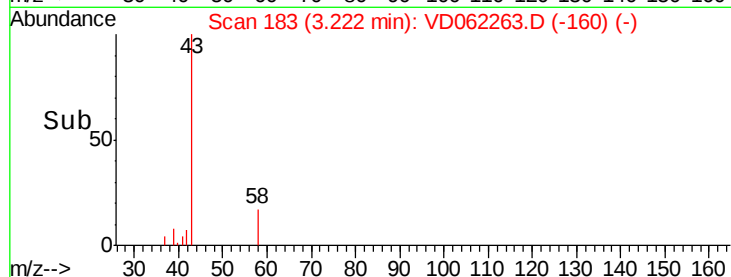
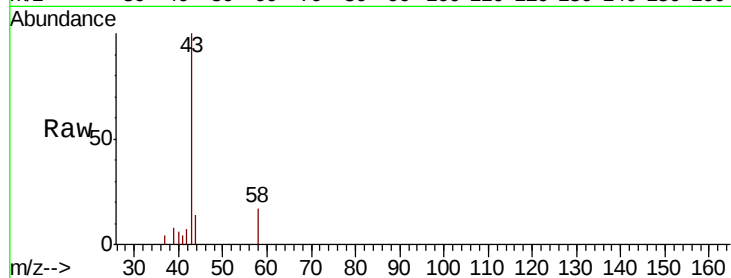
P021-SS001-1824-01

Tot Ion: 43 Resp: 24551

Ion Ratio Lower Upper

43 100

58 16.7 19.9 29.9#



#18

Methyl Acetate

Concen: 4.128 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.04 min

Lab File: VD062263.D

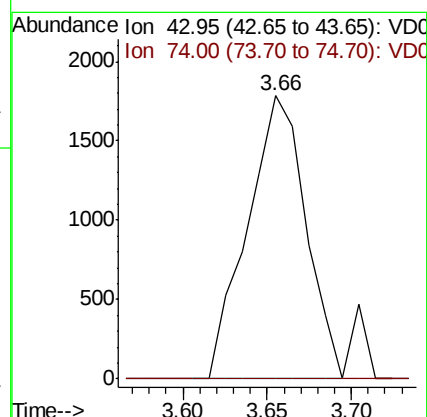
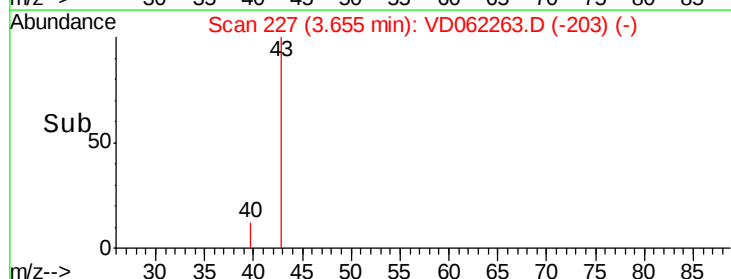
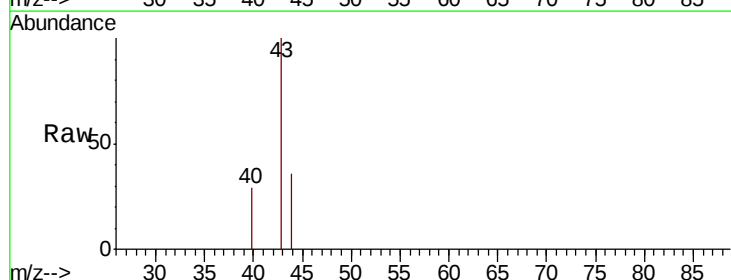
Acq: 12 May 2019 17:10

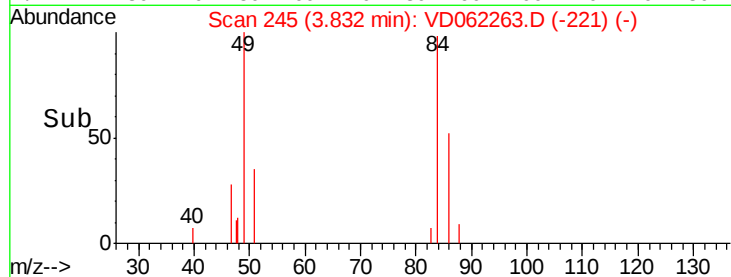
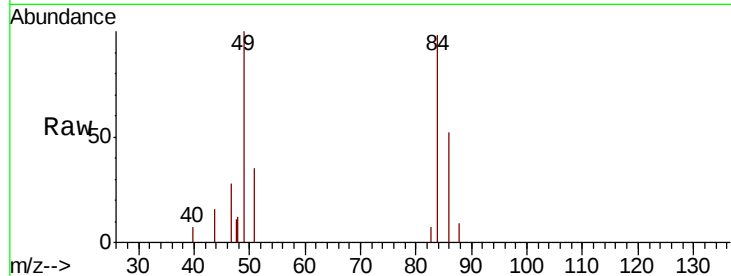
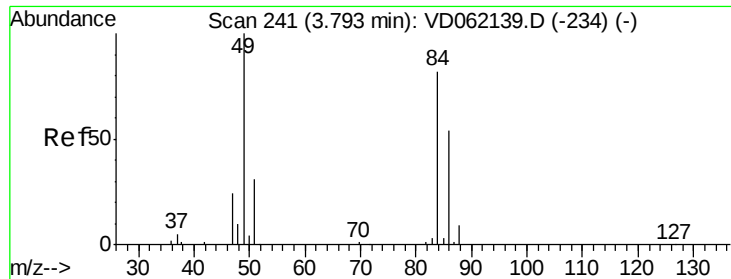
Tgt Ion: 43 Resp: 4268

Ion Ratio Lower Upper

43 100

74 0.0 18.0 27.0#

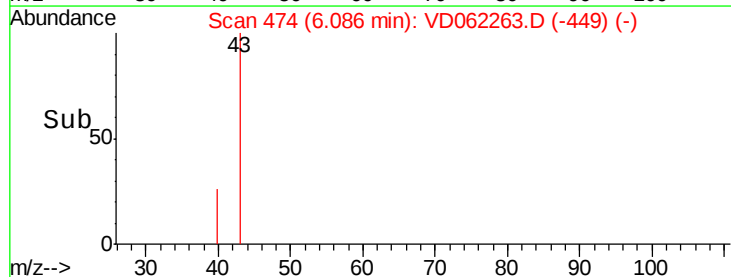
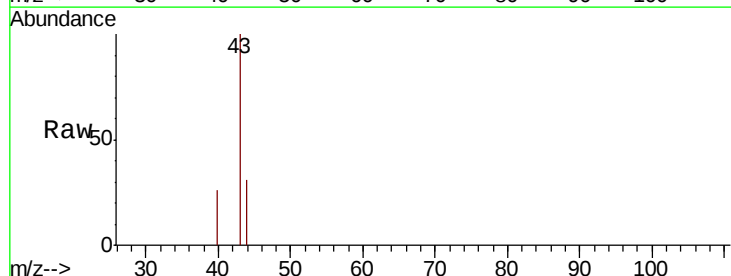
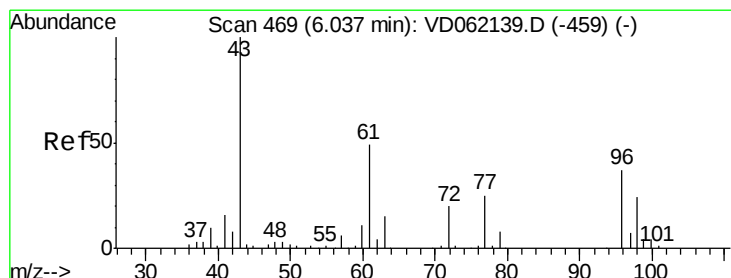
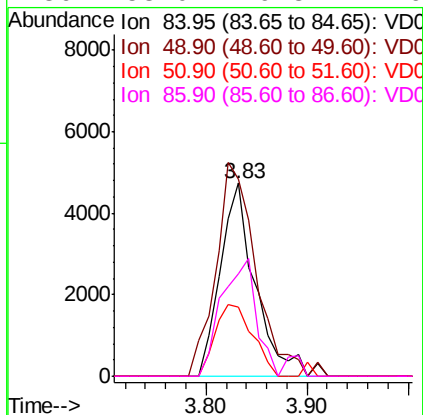




#20
Methvlene Chloride
Concen: 5.089 ug/l
RT: 3.83 min Scan# 245
Delta R.T. 0.04 min
Lab File: VD062263.D
Acq: 12 May 2019 17:10

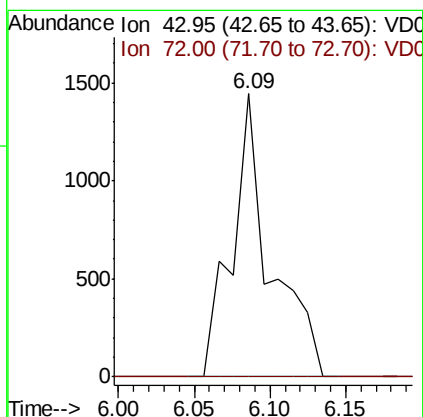
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-1824-01

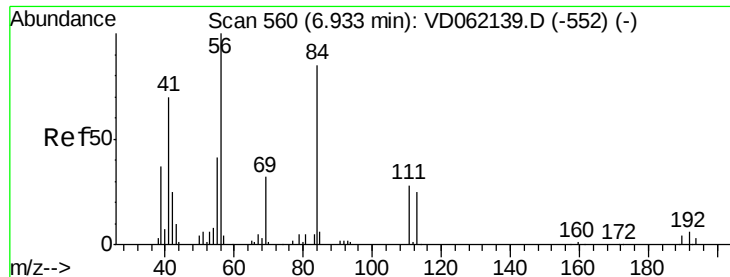
Tot Ion:	84	Resp:	11508
Ion	Ratio	Lower	Upper
84	100		
49	101.9	94.0	141.0
51	36.1	29.0	43.4
86	53.0	49.8	74.6



#25
2-Butanone
Concen: 4.285 ug/l
RT: 6.09 min Scan# 474
Delta R.T. 0.05 min
Lab File: VD062263.D
Acq: 12 May 2019 17:10

Tgt Ion:	43	Resp:	2531
Ion	Ratio	Lower	Upper
43	100		
72	0.0	16.2	24.4#

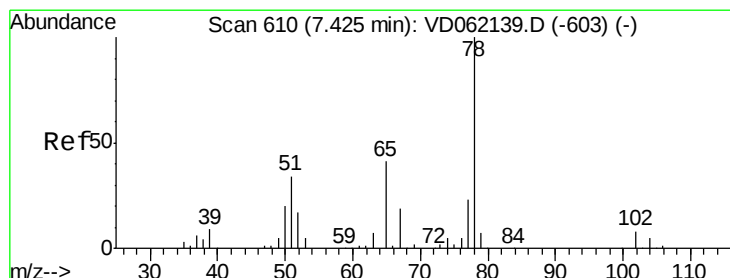
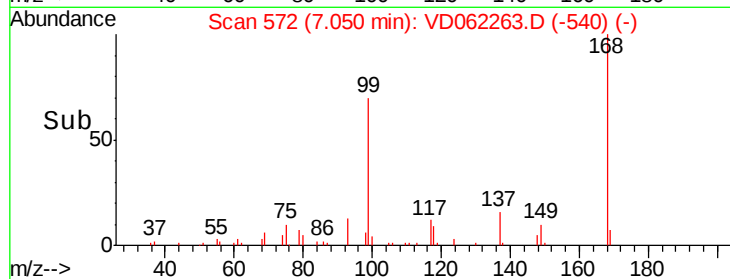
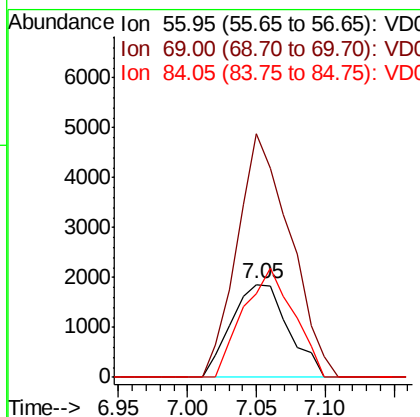
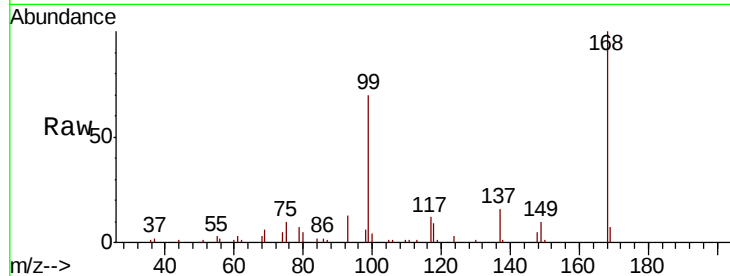




#31
Cvclohexane
Concen: 1.976 ug/l
RT: 7.05 min Scan# 572
Delta R.T. 0.12 min
Lab File: VD062263.D
Acq: 12 May 2019 17:10

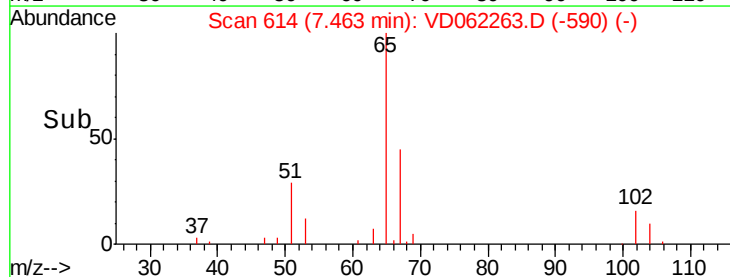
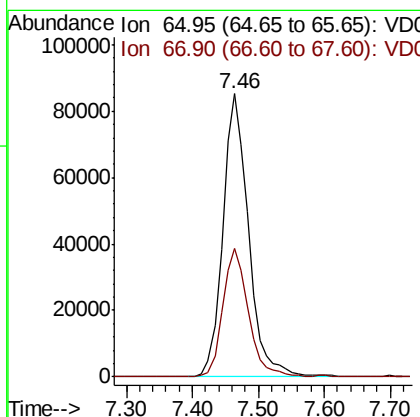
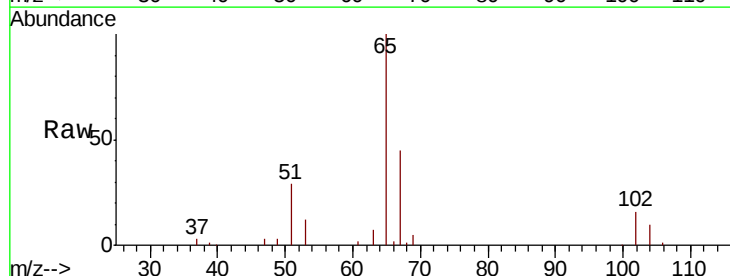
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-1824-01

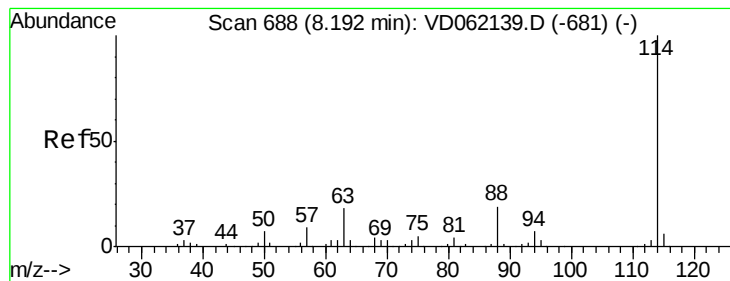
Tot Ion: 56 Resp: 5354
Ion Ratio Lower Upper
56 100
69 261.5 25.8 38.6#
84 89.8 72.2 108.4



#33
1,2-Dichloroethane-d4
Concen: 89.699 ug/l
RT: 7.46 min Scan# 614
Delta R.T. 0.04 min
Lab File: VD062263.D
Acq: 12 May 2019 17:10

Tgt Ion: 65 Resp: 231645
Ion Ratio Lower Upper
65 100
67 45.2 0.0 98.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.23 min Scan# 692

Delta R.T. 0.04 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-1824-01

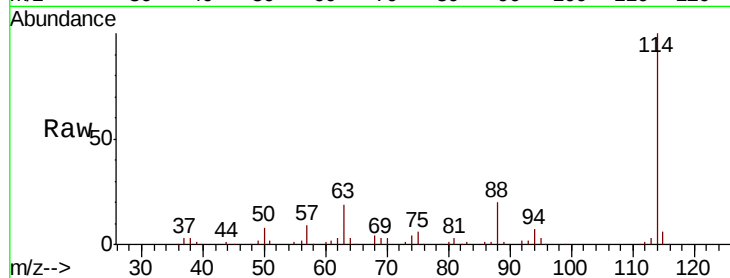
Tot Ion:114 Resp: 468198

Ion Ratio Lower Upper

114 100

63 18.7 0.0 32.4

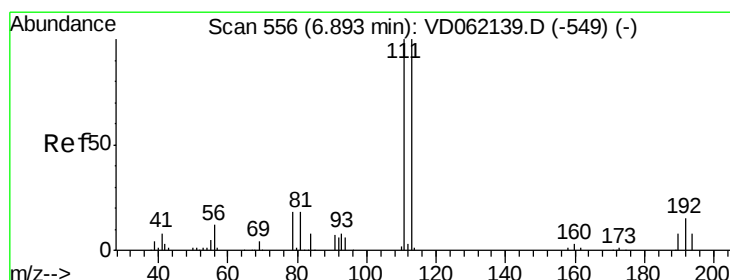
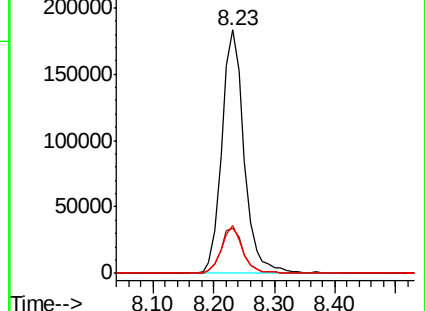
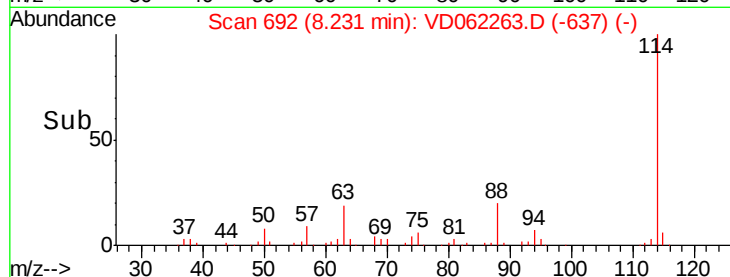
88 19.8 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 65.200 ug/l

RT: 6.94 min Scan# 561

Delta R.T. 0.05 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

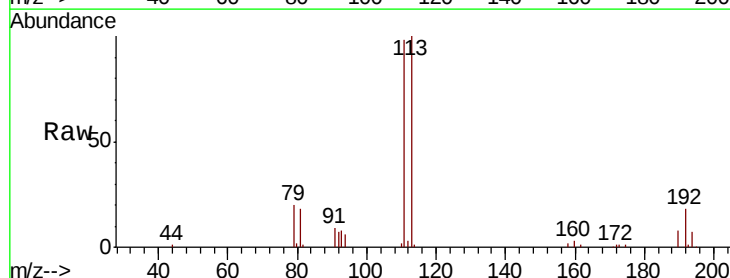
Tgt Ion:113 Resp: 253282

Ion Ratio Lower Upper

113 100

111 97.8 78.5 117.7

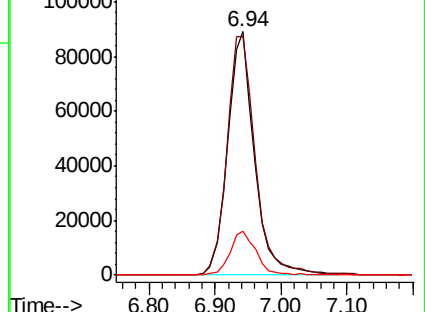
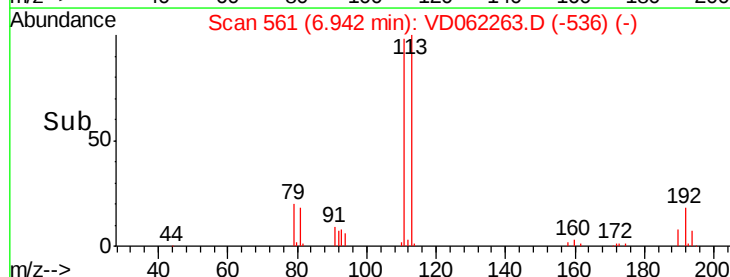
192 18.0 13.0 19.4

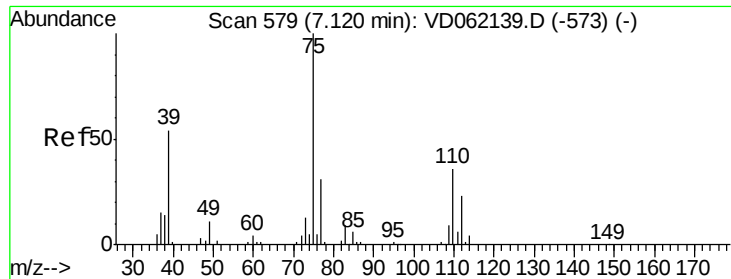


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 5.580 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.07 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

Instrument :

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ClientSampleId :

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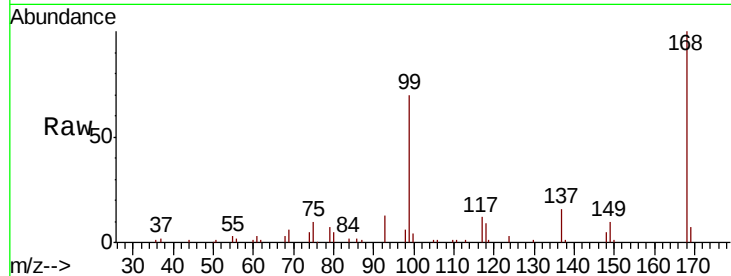
Tot Ion: 75 Resp: 21421

Ion Ratio Lower Upper

75 100

110 8.3 19.1 57.1#

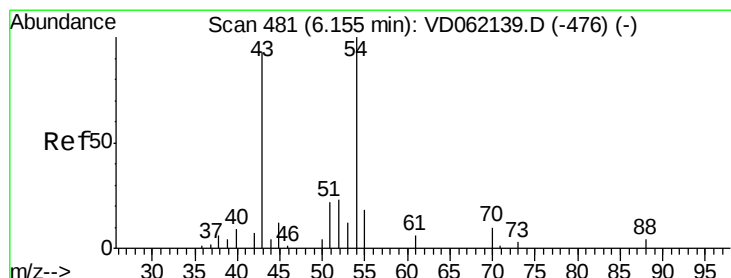
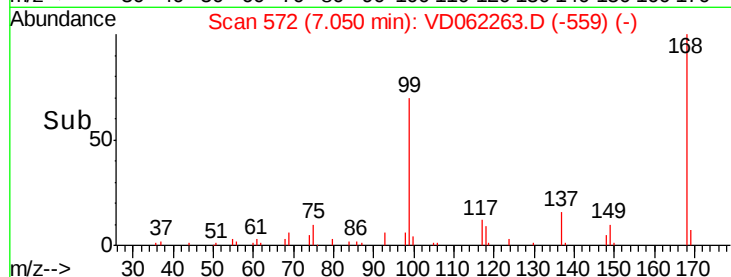
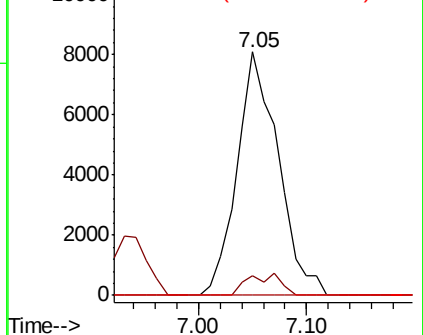
77 0.0 25.6 38.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.555 ug/l

RT: 6.09 min Scan# 474

Delta R.T. -0.07 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

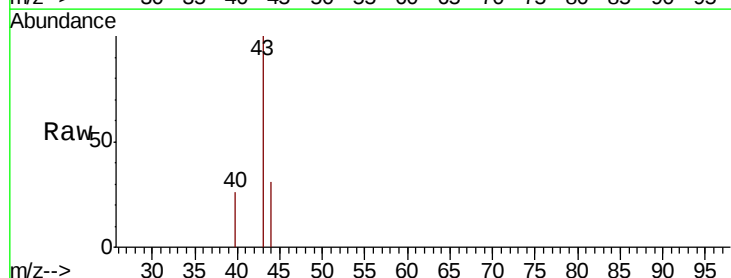
Tgt Ion: 43 Resp: 2531

Ion Ratio Lower Upper

43 100

61 0.0 14.7 22.1#

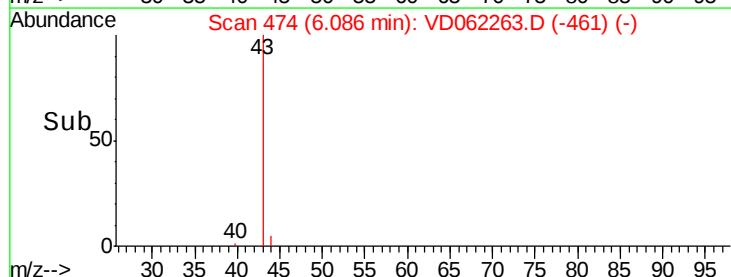
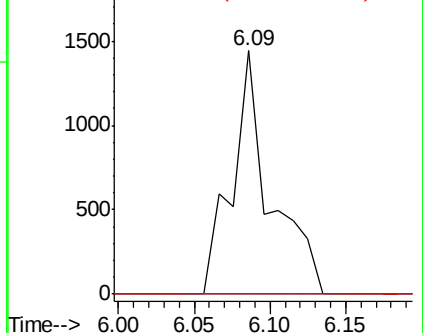
70 0.0 7.8 11.6#

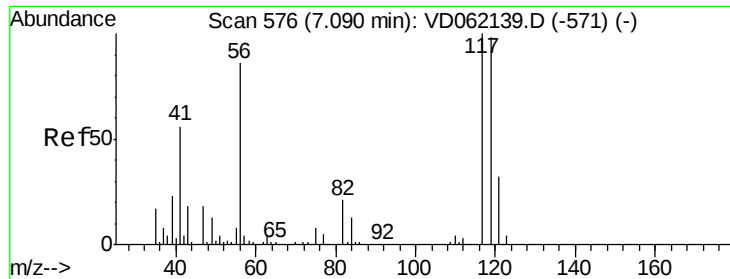


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 5.520 ug/l

RT: 7.06 min Scan# 573

Delta R.T. -0.03 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

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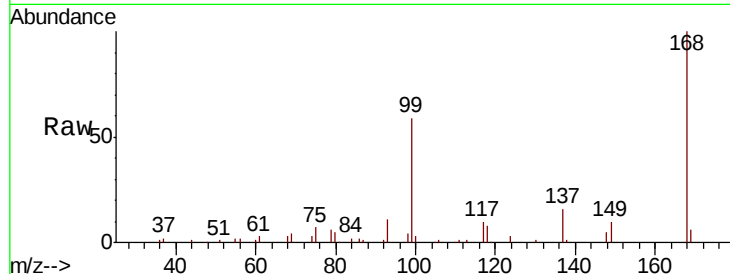
Tot Ion:117 Resp: 29328

Ion Ratio Lower Upper

117 100

119 3.2 75.8 113.8#

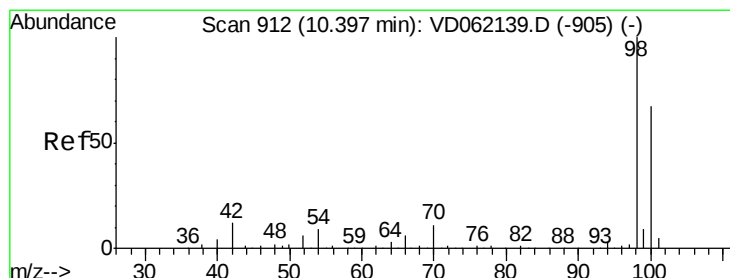
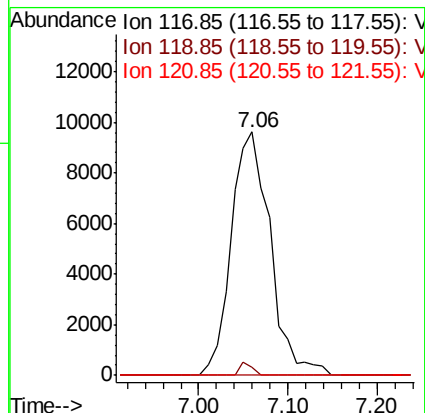
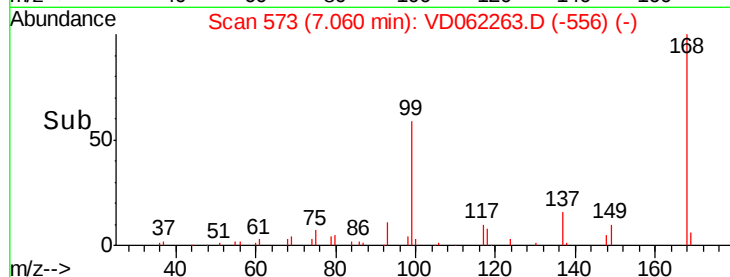
121 0.0 25.9 38.9#



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: 32.076 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD062263.D

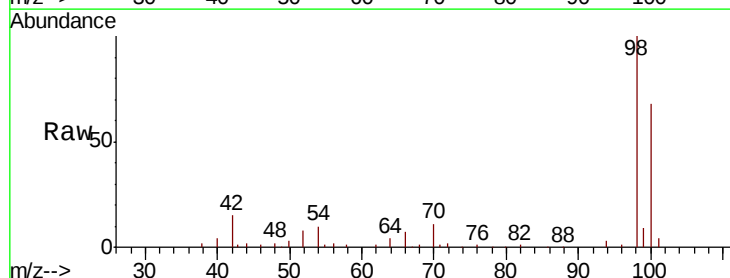
Acq: 12 May 2019 17:10

Tgt Ion: 98 Resp: 300430

Ion Ratio Lower Upper

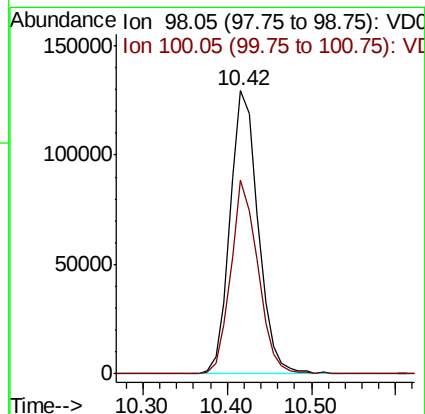
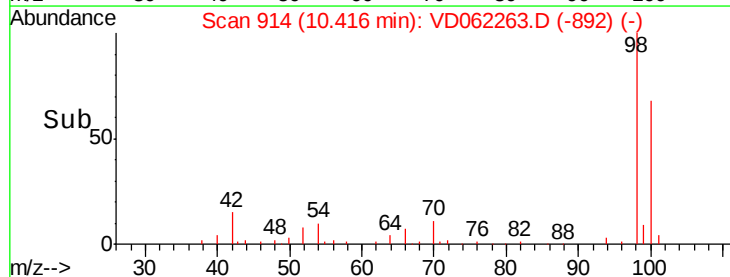
98 100

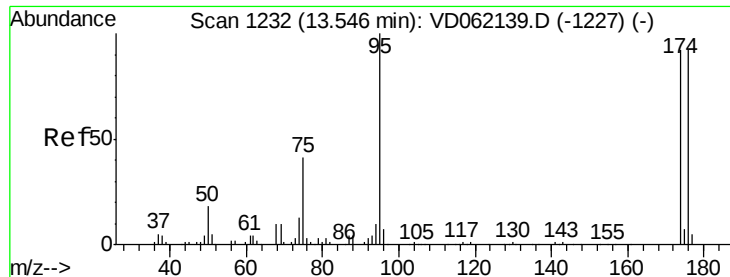
100 68.3 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: 32.326 ug/l

RT: 13.56 min Scan# 1234

Delta R.T. 0.02 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-1824-01

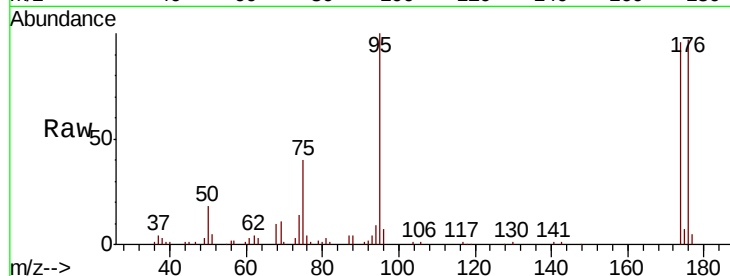
Tot Ion: 95 Resp: 121582

Ion Ratio Lower Upper

95 100

174 95.6 0.0 181.8

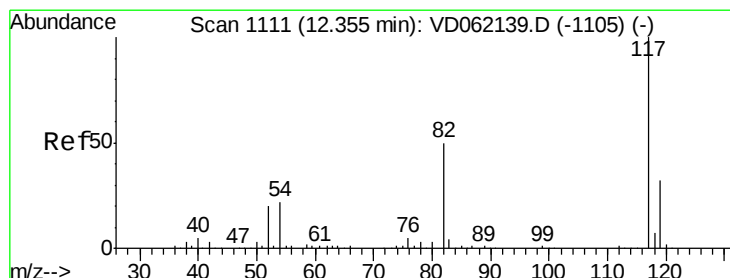
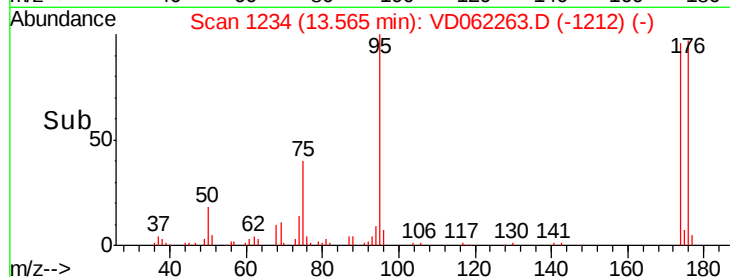
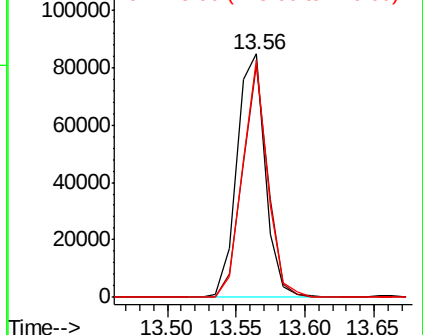
176 97.2 0.0 174.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1113

Delta R.T. 0.02 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

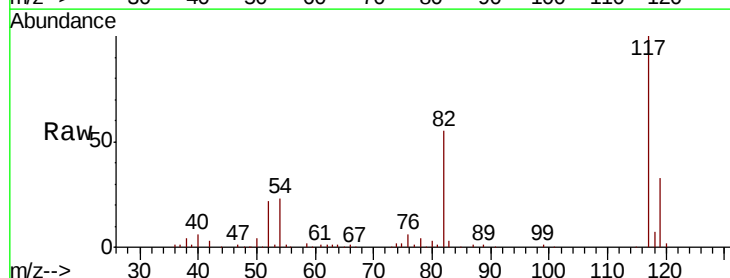
Tgt Ion: 117 Resp: 309913

Ion Ratio Lower Upper

117 100

82 55.3 36.2 54.2#

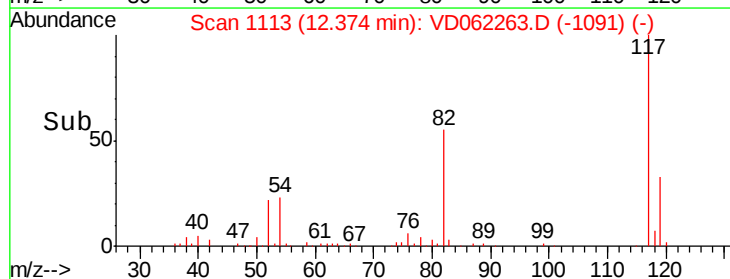
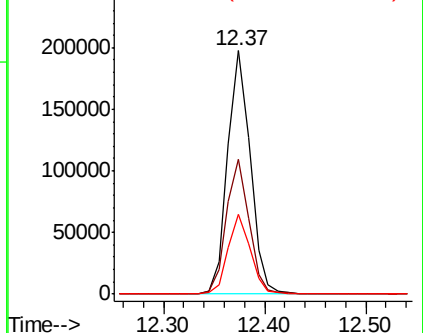
119 32.7 26.2 39.4

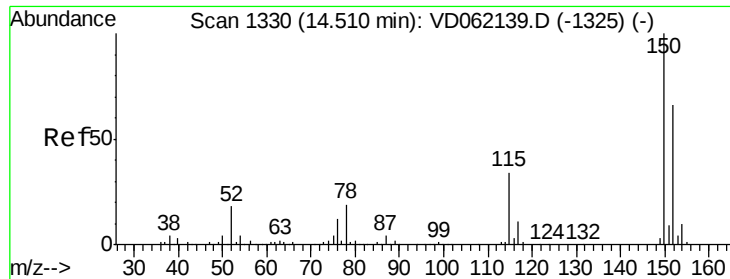


Abundance Ion 116.95 (116.65 to 117.65): V

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: VD062263.D

Acq: 12 May 2019 17:10

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-1824-01

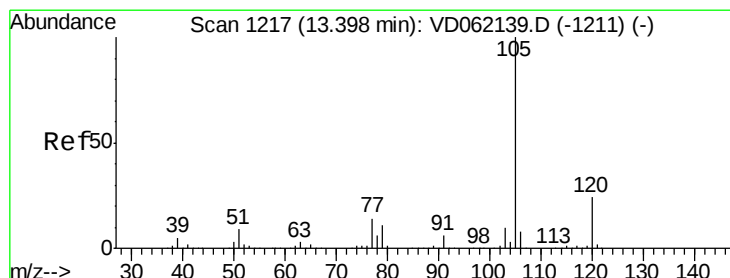
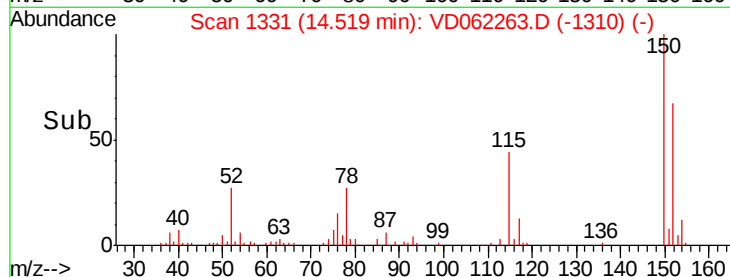
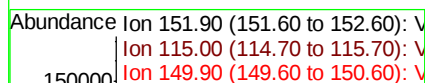
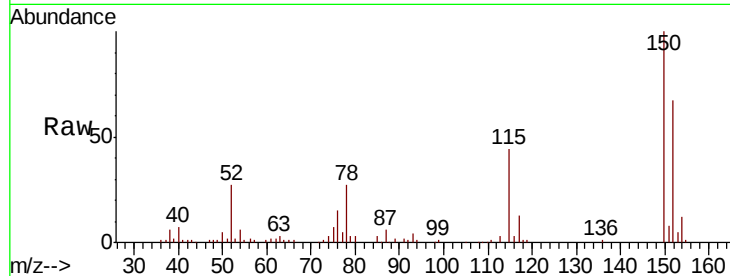
Tot Ion:152 Resp: 106956

Ion Ratio Lower Upper

152 100

115 65.1 30.9 92.7

150 148.6 0.0 314.8



#73

Isopropylbenzene

Concen: 9.222 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. -0.00 min

Lab File: VD062263.D

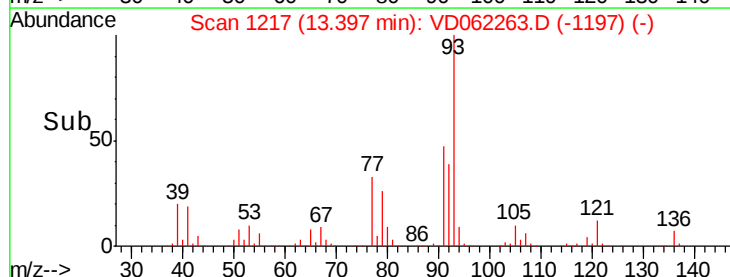
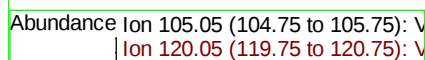
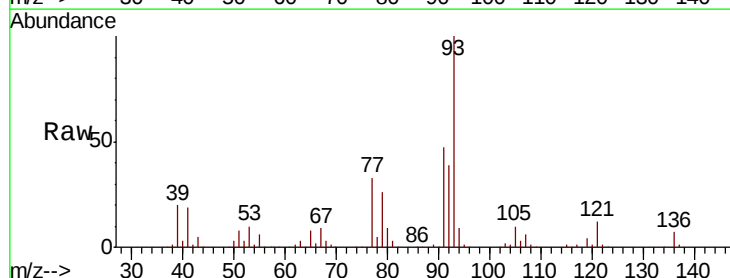
Acq: 12 May 2019 17:10

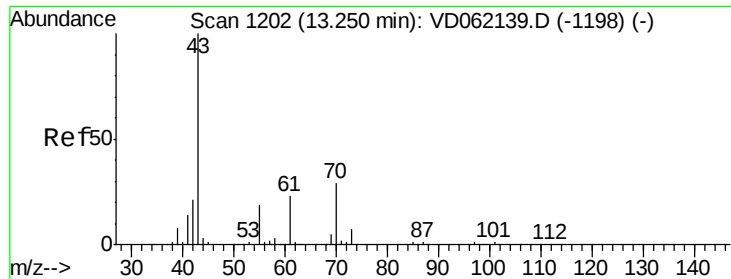
Tgt Ion:105 Resp: 59122

Ion Ratio Lower Upper

105 100

120 5.1 12.0 36.1#





#74

N-amvl acetate

Concen: 18.221 ug/l

RT: 13.40 min Scan# 1217

Delta R.T. 0.15 min

Lab File: VD062263.D

Acq: 12 May 2019 17:10

Instrument :

MSVOA_D

ClientSampleId :

P021-SS001-1824-01

Tot Ion: 43 Resp: 30628

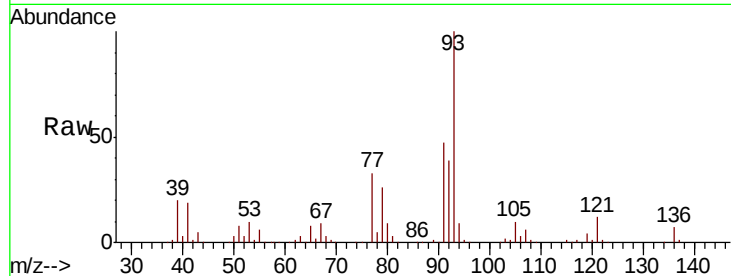
Ion Ratio Lower Upper

43 100

70 1.6 24.2 36.4#

55 105.4 16.0 24.0#

61 3.5 21.6 32.4#

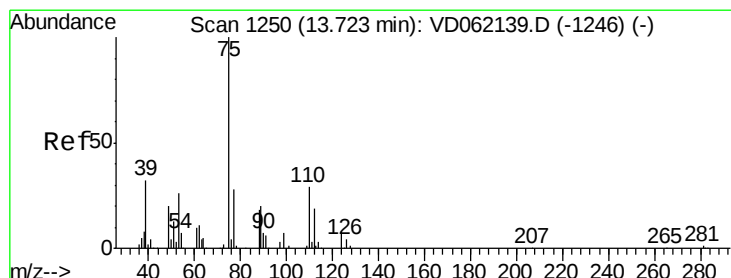
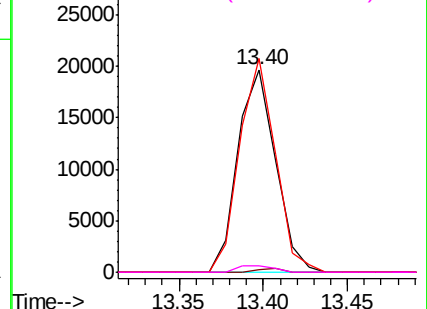
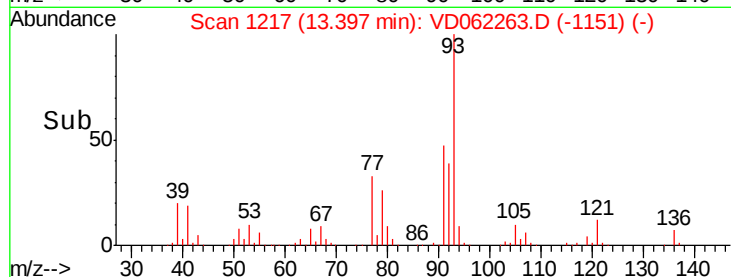


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#76

1,2,3-Trichloropropane

Concen: 36.165 ug/l

RT: 13.56 min Scan# 1234

Delta R.T. -0.16 min

Lab File: VD062263.D

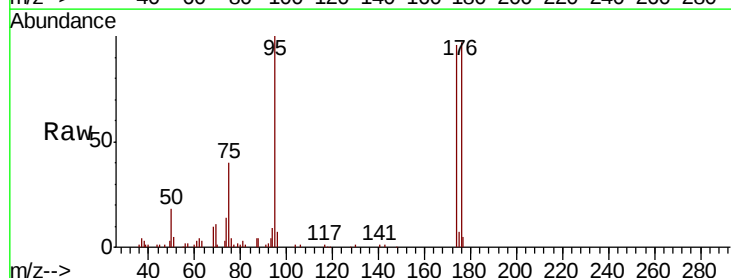
Acq: 12 May 2019 17:10

Tgt Ion: 75 Resp: 45969

Ion Ratio Lower Upper

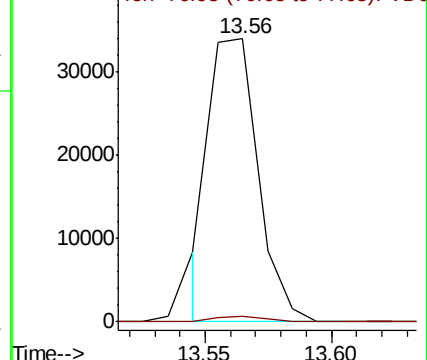
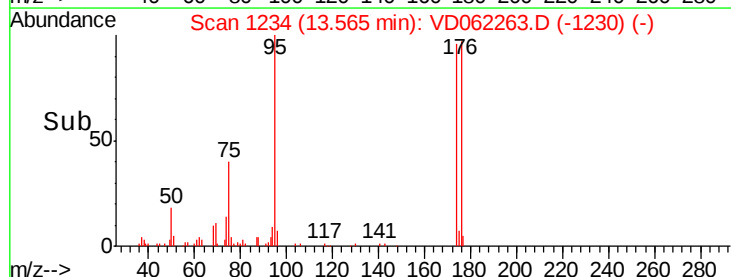
75 100

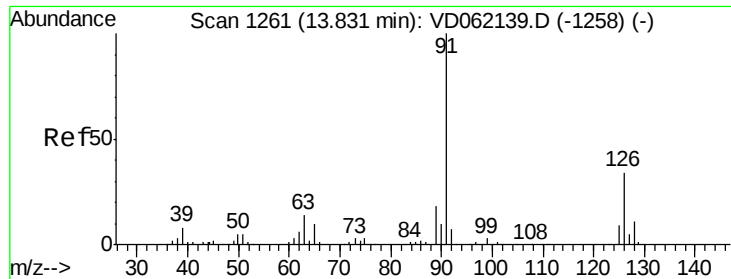
77 1.8 16.4 49.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC

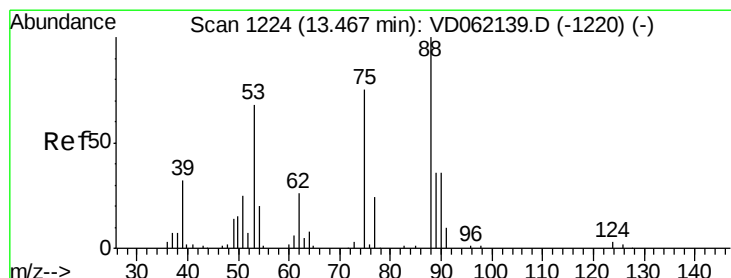
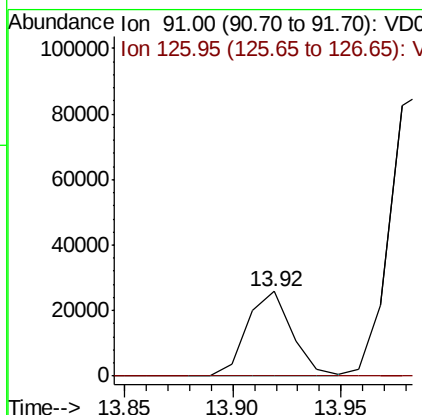
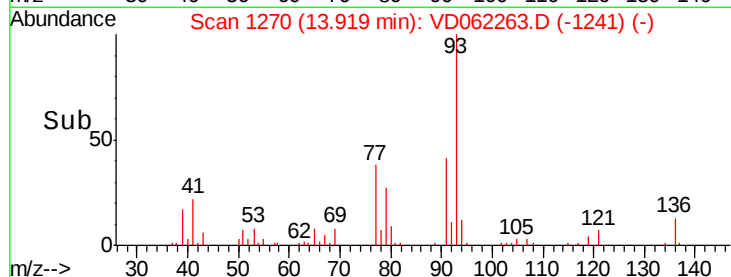
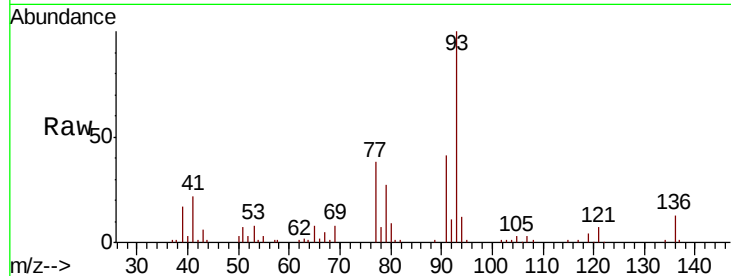




#79
2-Chlorotoluene
Concen: 8.548 ug/l
RT: 13.92 min Scan# 1270
Delta R.T. 0.09 min
Lab File: VD062263.D
Acq: 12 May 2019 17:10

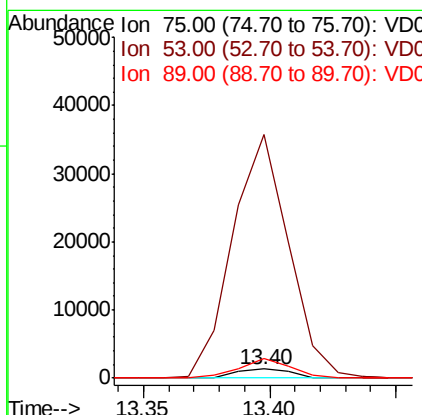
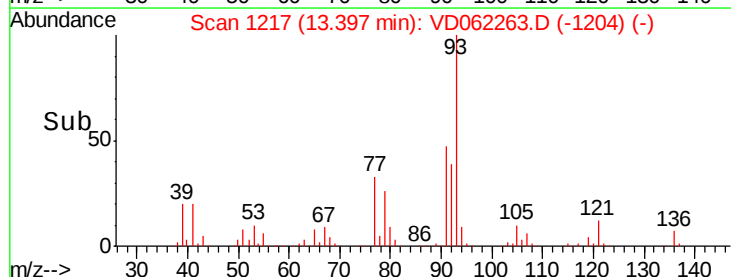
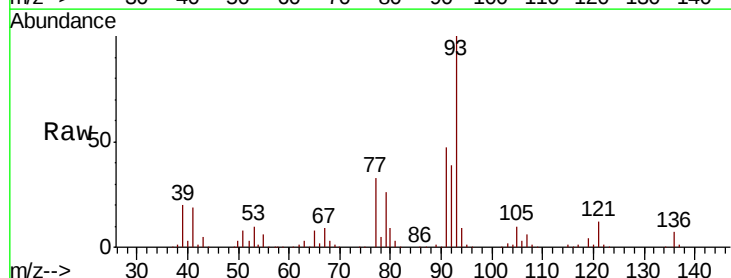
Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-1824-01

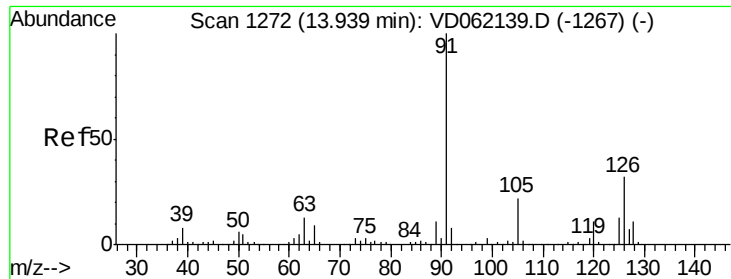
Tot Ion: 91 Resp: 37443
Ion Ratio Lower Upper
91 100
126 0.0 18.6 55.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 5.312 ug/l
RT: 13.40 min Scan# 1217
Delta R.T. -0.07 min
Lab File: VD062263.D
Acq: 12 May 2019 17:10

Tgt Ion: 75 Resp: 1906
Ion Ratio Lower Upper
75 100
53 2716.1 65.8 98.8#
89 212.4 35.0 52.6#

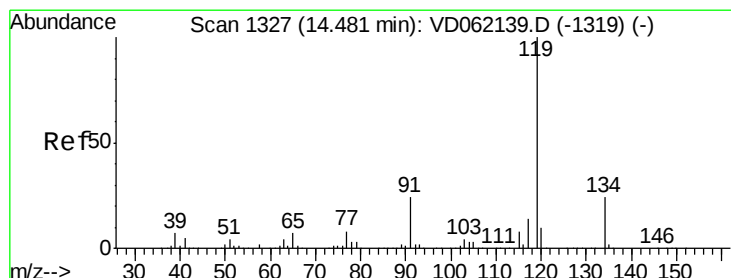
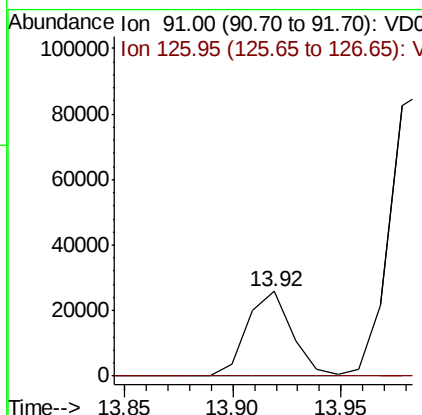
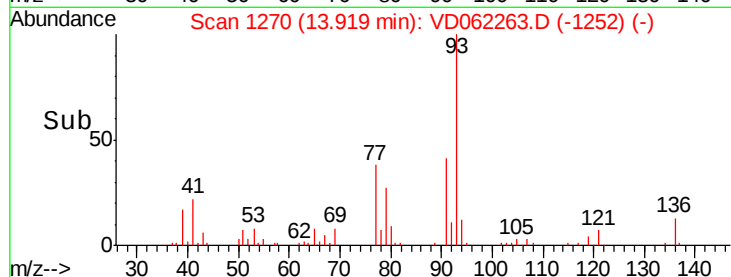
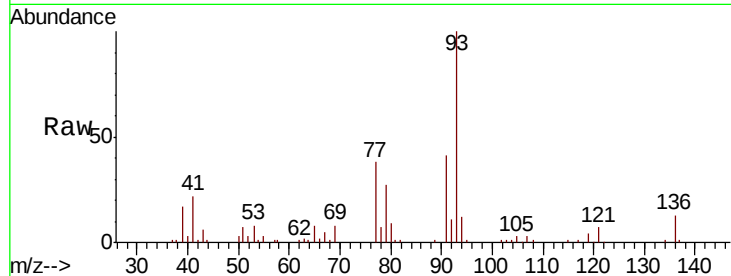




#82
4-Chlorotoluene
Concen: 7.264 ug/l
RT: 13.92 min Scan# 1270
Delta R.T. -0.02 min
Lab File: VD062263.D
Acq: 12 May 2019 17:10

Instrument :
MSVOA_D
ClientSampleId :
P021-SS001-1824-01

Tot Ion: 91 Resp: 37443
Ion Ratio Lower Upper
91 100
126 0.0 19.1 57.5#



#86
p-Isopropyltoluene
Concen: 13.537 ug/l
RT: 14.49 min Scan# 1328
Delta R.T. 0.01 min
Lab File: VD062263.D
Acq: 12 May 2019 17:10

Tgt Ion: 119 Resp: 80469
Ion Ratio Lower Upper
119 100
134 21.8 12.8 38.3
91 27.3 10.7 32.1

