

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD122719\
 Data File : VD064644.D
 Acq On : 27 Dec 2019 14:54
 Operator : VA/SY
 Sample : K6431-04RE
 Misc : 5.33G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4-(5-6)RE

Quant Time: Dec 30 00:58:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	103637	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	154390	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	153661	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	76028	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	67689	74.07	ug/l	0.00
Spiked Amount			Recovery	=	148.14%	
35) Dibromofluoromethane	7.92	113	55623	58.72	ug/l	0.00
Spiked Amount			Recovery	=	117.44%	
50) Toluene-d8	10.34	98	191871	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
62) 4-Bromofluorobenzene	12.64	95	65632	57.21	ug/l	0.00
Spiked Amount			Recovery	=	114.42%	

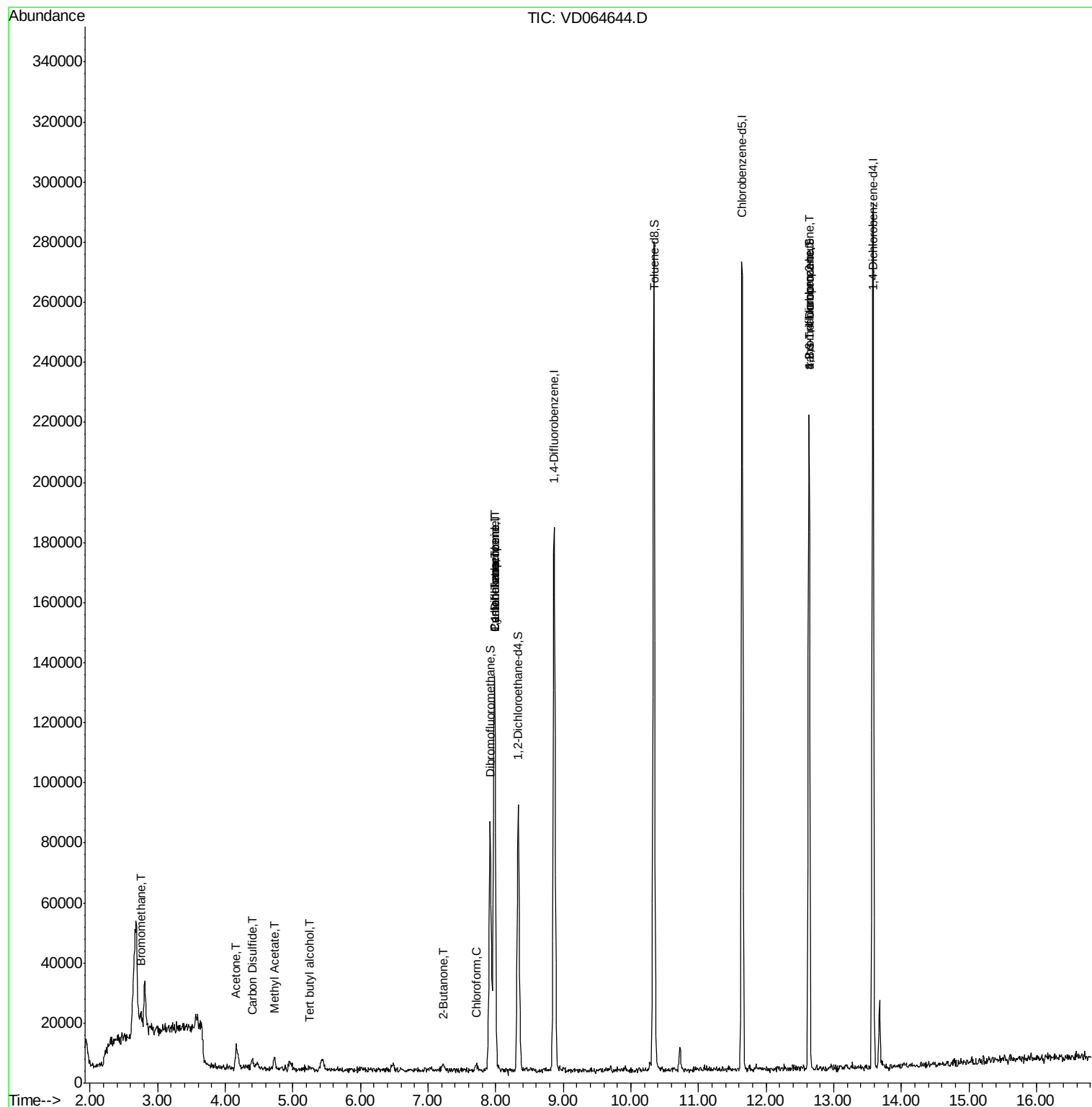
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.76	94	2428	2.431	ug/l #	67
11) Tert butyl alcohol	5.26	59	336	6.415	ug/l #	70
16) Acetone	4.16	43	12151	61.008	ug/l	99
17) Carbon Disulfide	4.39	76	6109	2.072	ug/l	100
18) Methyl Acetate	4.73	43	5436	10.566	ug/l	96
20) Methylene Chloride	4.95	84	1138	Below Cal	#	59
25) 2-Butanone	7.23	43	2562	10.199	ug/l #	49
30) Chloroform	7.72	83	2209	1.237	ug/l	86
31) Cyclohexane	7.99	56	2308	1.355	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	7268	4.891	ug/l #	45
38) Carbon Tetrachloride	7.98	117	10748	6.783	ug/l #	12
76) 1,2,3-Trichloropropane	12.64	75	32939	54.865	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	32939	114.748	ug/l #	10

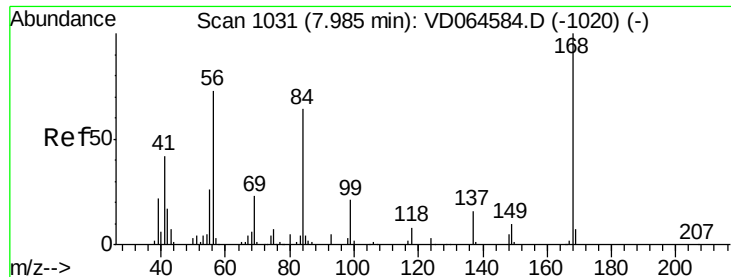
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064644.D

Acq: 27 Dec 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

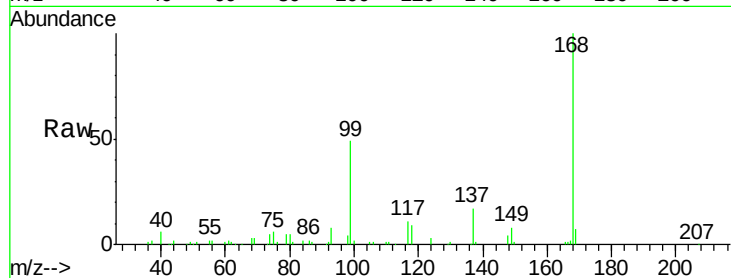
SB-4-(5-6)RE

Tgt Ion:168 Resp: 103637

Ion Ratio Lower Upper

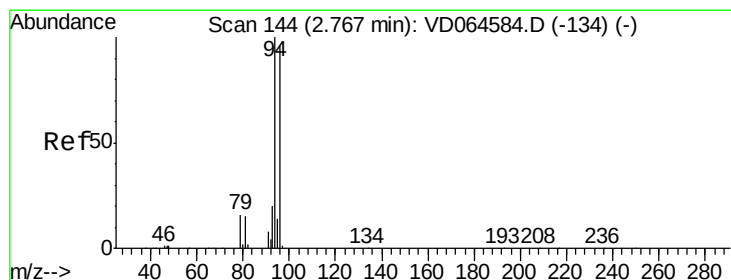
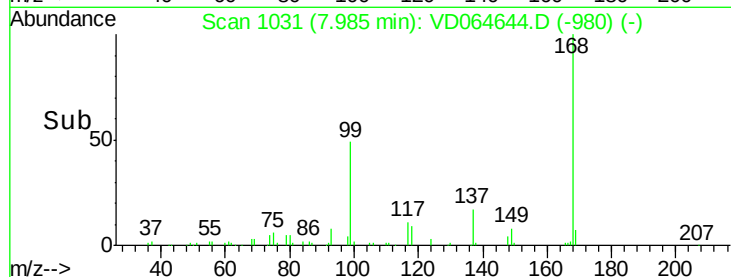
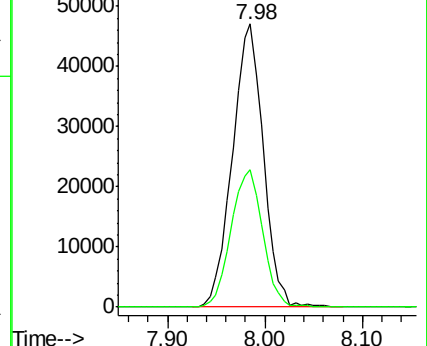
168 100

99 48.7 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#5

Bromomethane

Concen: 2.431 ug/l

RT: 2.76 min Scan# 142

Delta R.T. -0.01 min

Lab File: VD064644.D

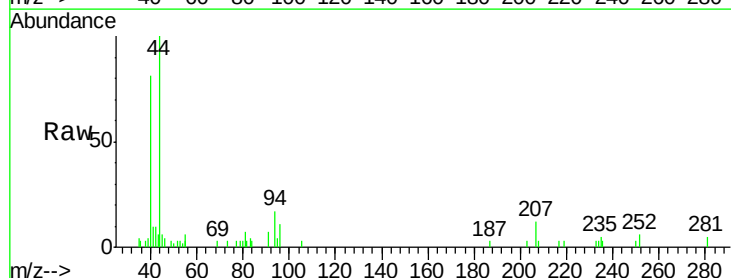
Acq: 27 Dec 2019 14:54

Tgt Ion: 94 Resp: 2428

Ion Ratio Lower Upper

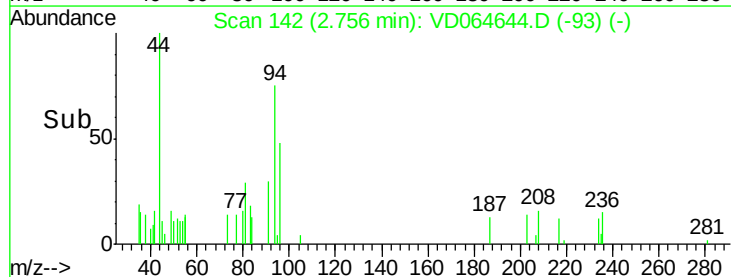
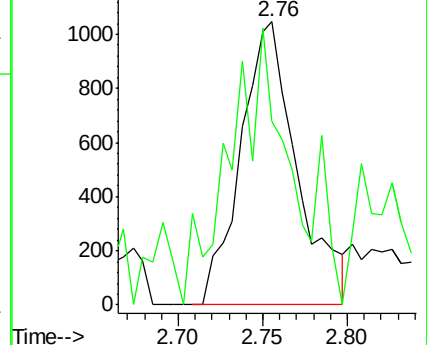
94 100

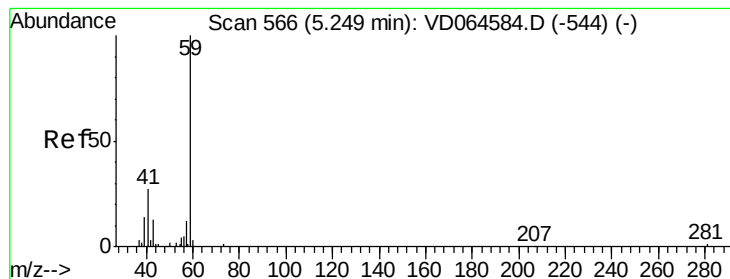
96 64.6 77.2 115.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



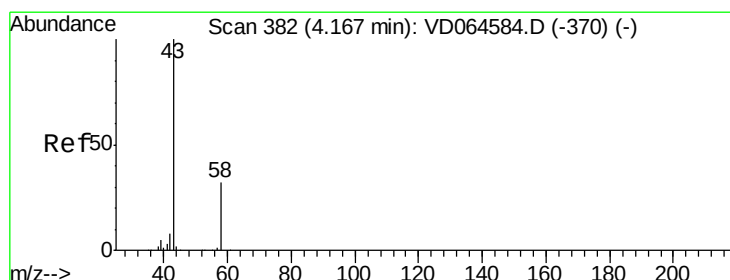
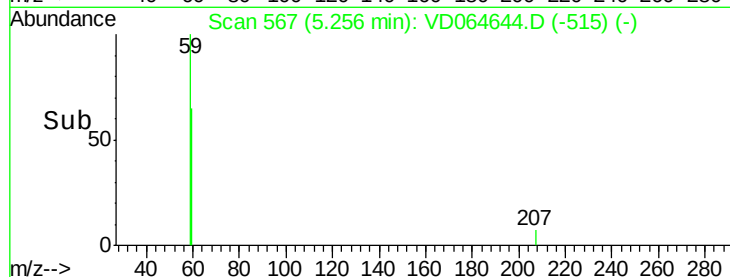
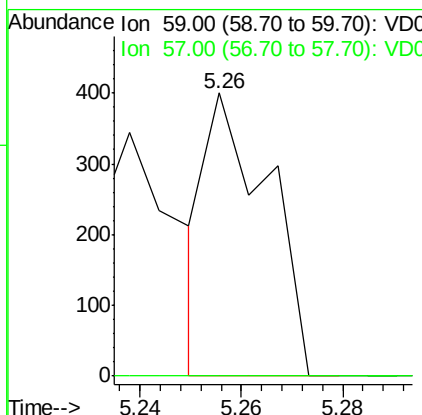
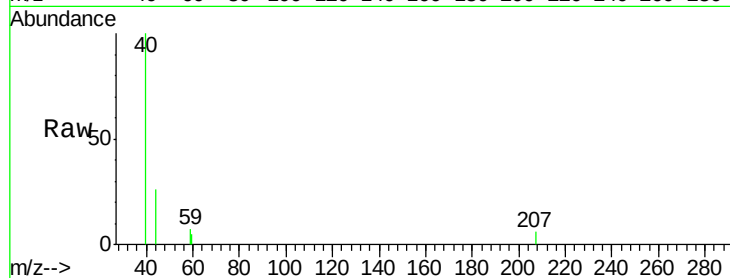


#11

Tert butyl alcohol
 Concen: 6.415 ug/l
 RT: 5.26 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: VD064644.D
 Acq: 27 Dec 2019 14:54

Instrument :
 MSVOA_D
 ClientSampleId :
 SB-4-(5-6)RE

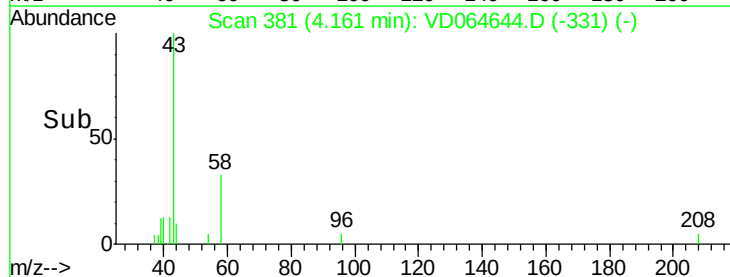
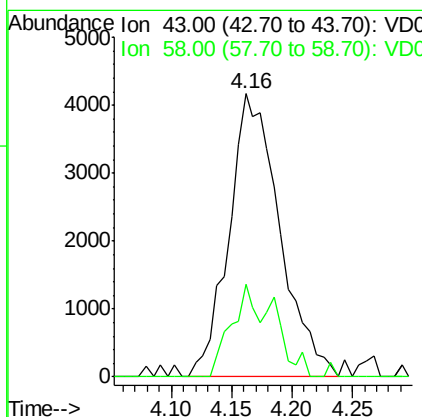
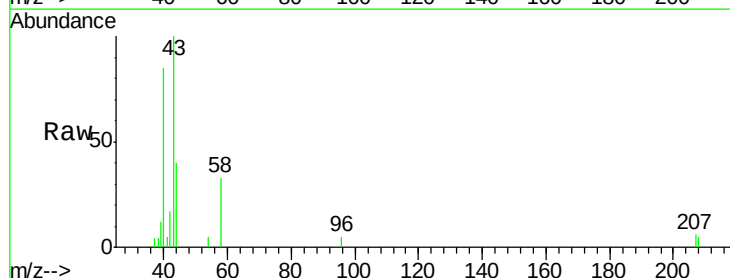
Tgt Ion: 59 Resp: 336
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.3 13.9#

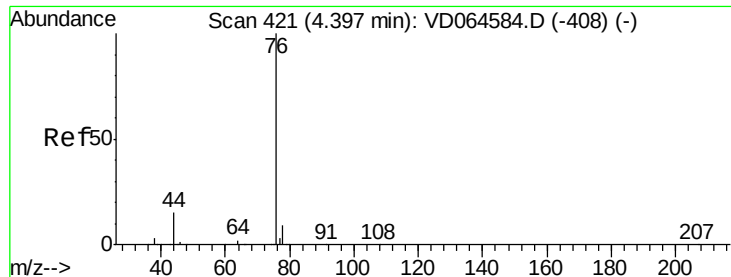


#16

Acetone
 Concen: 61.008 ug/l
 RT: 4.16 min Scan# 381
 Delta R.T. -0.01 min
 Lab File: VD064644.D
 Acq: 27 Dec 2019 14:54

Tgt Ion: 43 Resp: 12151
 Ion Ratio Lower Upper
 43 100
 58 32.8 25.8 38.6





#17

Carbon Disulfide

Concen: 2.072 ug/l

RT: 4.39 min Scan# 420

Delta R.T. -0.01 min

Lab File: VD064644.D

Acq: 27 Dec 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

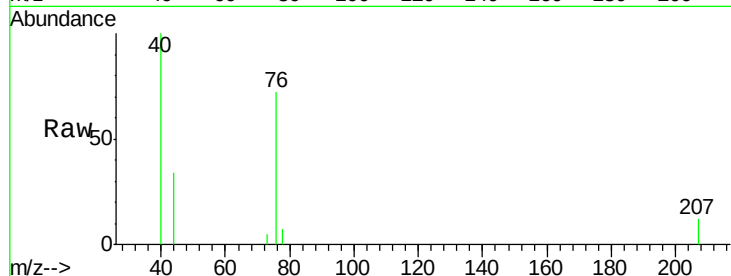
SB-4-(5-6)RE

Tgt Ion: 76 Resp: 6109

Ion Ratio Lower Upper

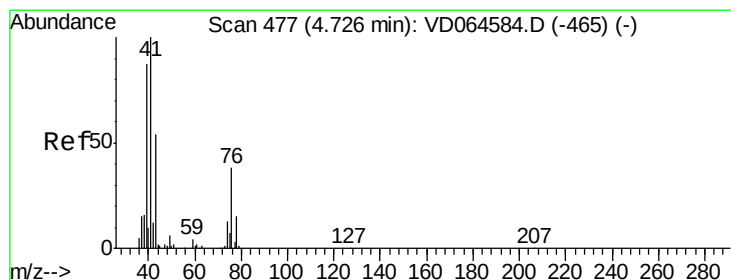
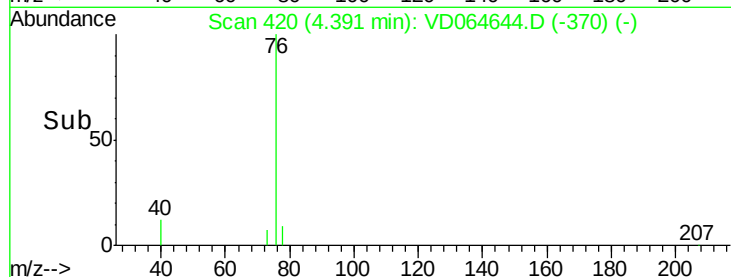
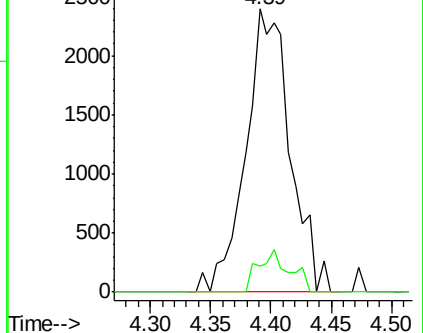
76 100

78 9.2 7.3 10.9



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#18

Methyl Acetate

Concen: 10.566 ug/l

RT: 4.73 min Scan# 478

Delta R.T. 0.01 min

Lab File: VD064644.D

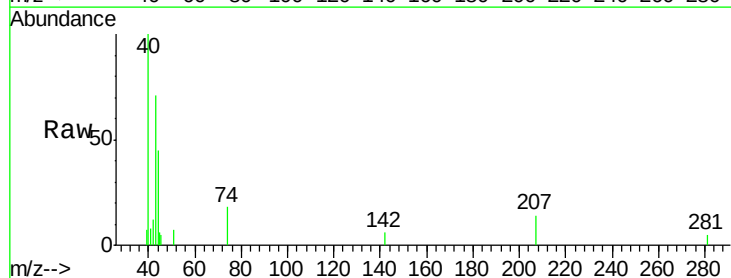
Acq: 27 Dec 2019 14:54

Tgt Ion: 43 Resp: 5436

Ion Ratio Lower Upper

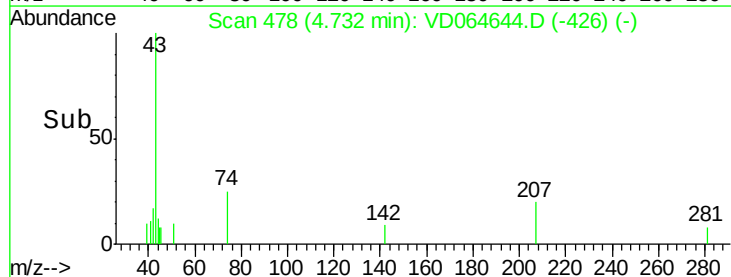
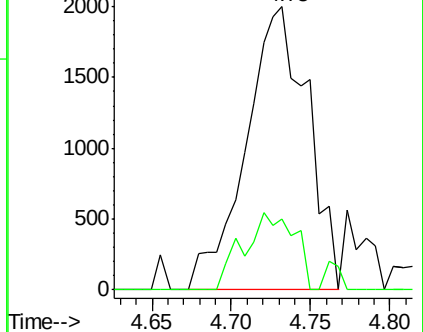
43 100

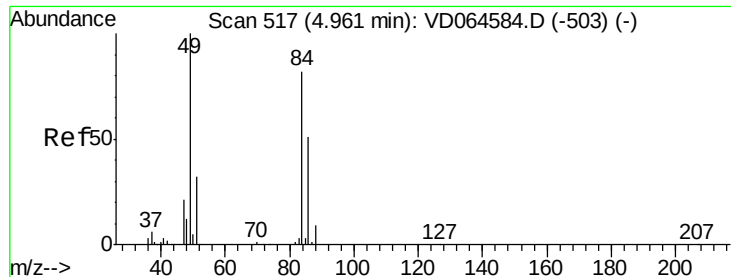
74 22.3 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 74.00 (73.70 to 74.70): VDC

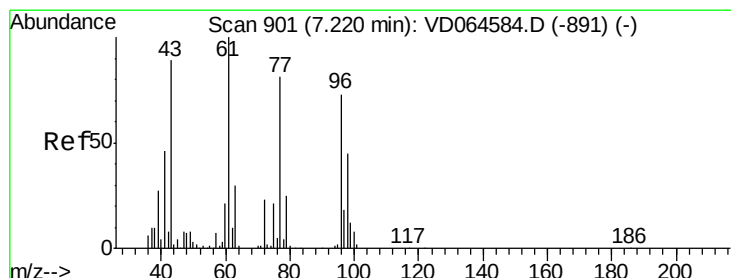
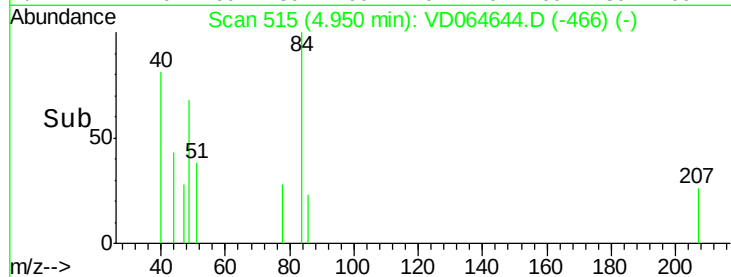
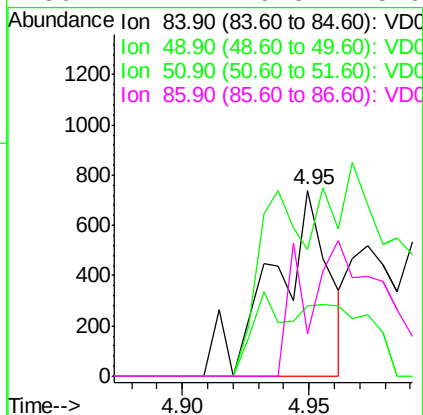
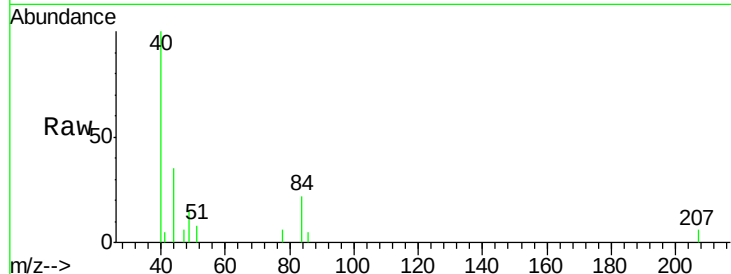




#20
Methylene Chloride
Concen: Below Cal
RT: 4.95 min Scan# 515
Delta R.T. -0.01 min
Lab File: VD064644.D
Acq: 27 Dec 2019 14:54

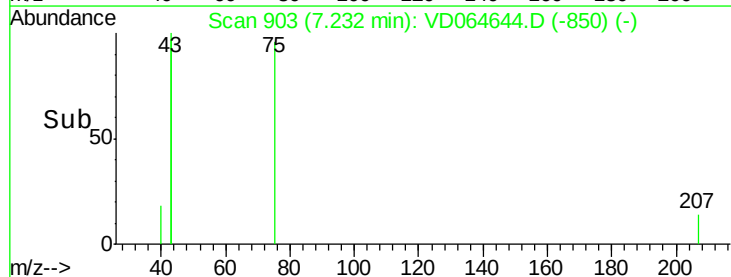
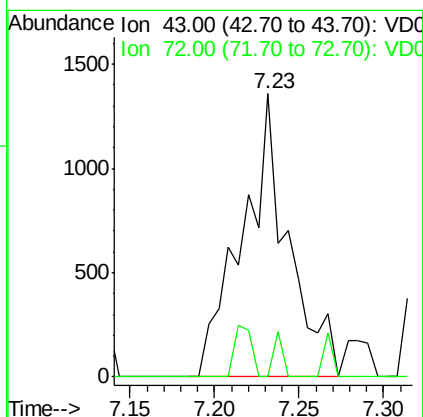
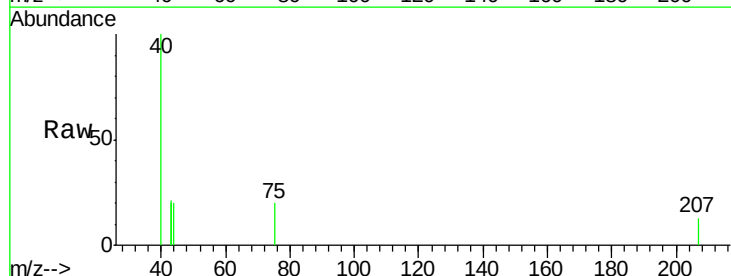
Instrument :
MSVOA_D
ClientSampleId :
SB-4-(5-6)RE

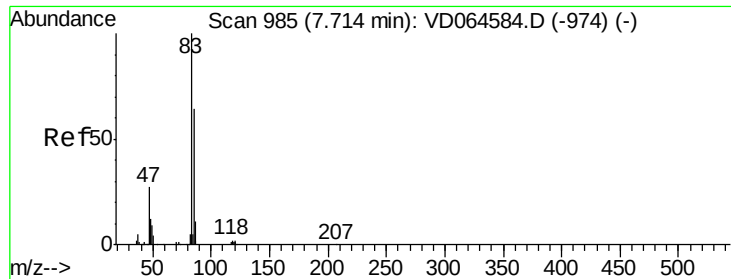
Tgt Ion: 84 Resp: 1138
Ion Ratio Lower Upper
84 100
49 68.2 97.2 145.8#
51 37.6 31.4 47.0
86 22.7 49.3 73.9#



#25
2-Butanone
Concen: 10.199 ug/l
RT: 7.23 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD064644.D
Acq: 27 Dec 2019 14:54

Tgt Ion: 43 Resp: 2562
Ion Ratio Lower Upper
43 100
72 0.0 20.7 31.1#

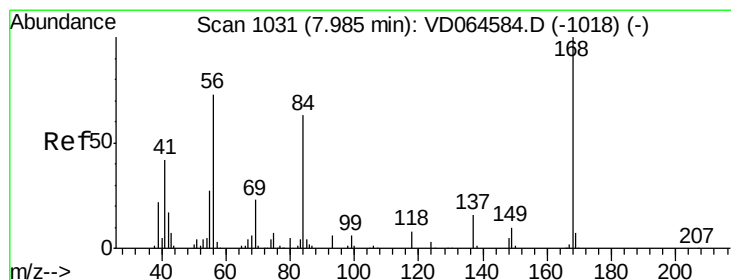
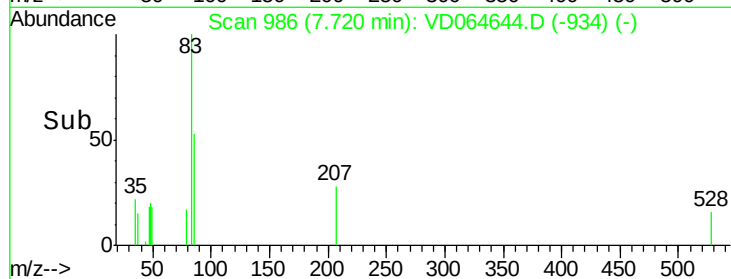
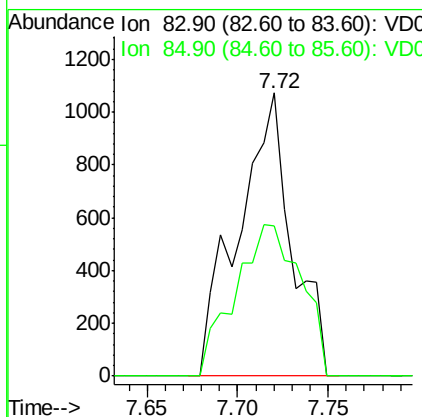
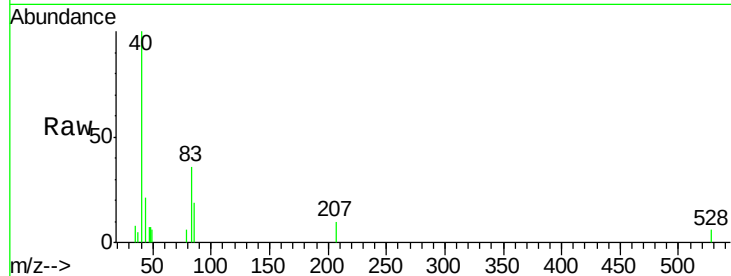




#30
Chloroform
Concen: 1.237 ug/l
RT: 7.72 min Scan# 986
Delta R.T. 0.01 min
Lab File: VD064644.D
Acq: 27 Dec 2019 14:54

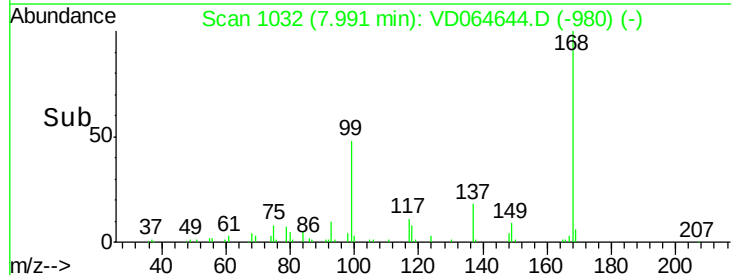
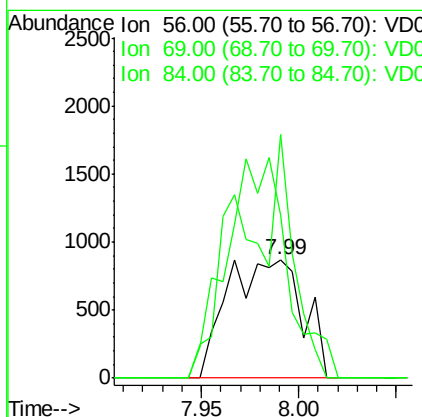
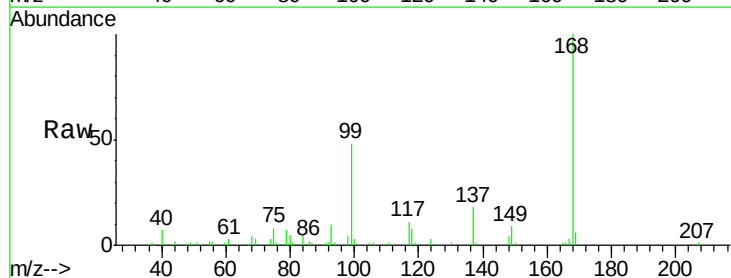
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MSVOA_D
ClientSampleId :
SB-4-(5-6)RE

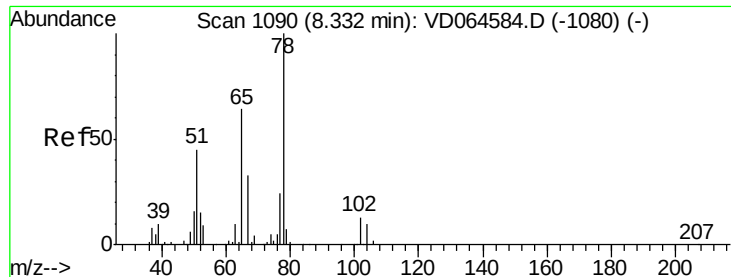
Tgt Ion: 83 Resp: 2209
Ion Ratio Lower Upper
83 100
85 53.0 51.1 76.7



#31
Cyclohexane
Concen: 1.355 ug/l
RT: 7.99 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VD064644.D
Acq: 27 Dec 2019 14:54

Tgt Ion: 56 Resp: 2308
Ion Ratio Lower Upper
56 100
69 137.7 24.7 37.1#
84 206.1 69.4 104.2#

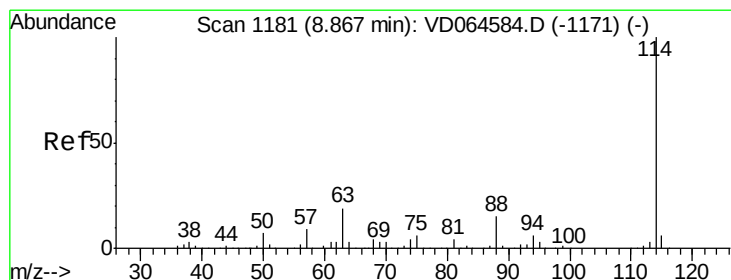
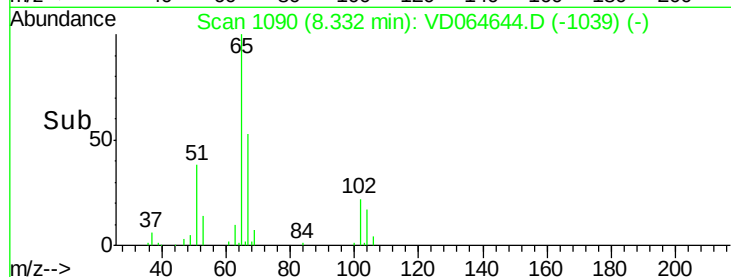
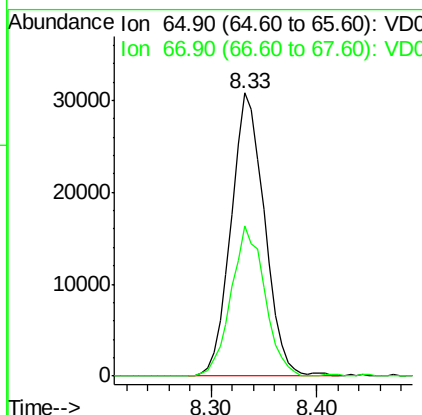
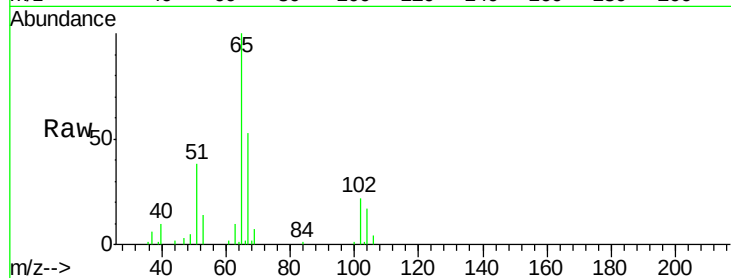




#33
 1,2-Dichloroethane-d4
 Concen: 74.069 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. 0.00 min
 Lab File: VD064644.D
 Acq: 27 Dec 2019 14:54

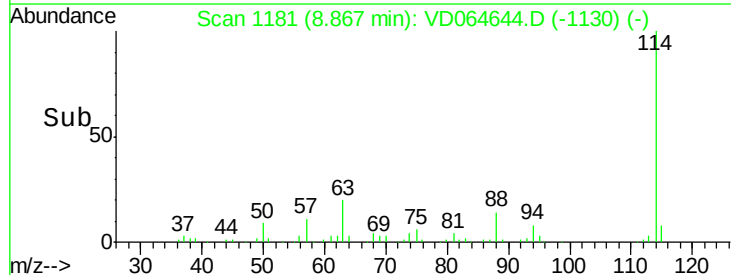
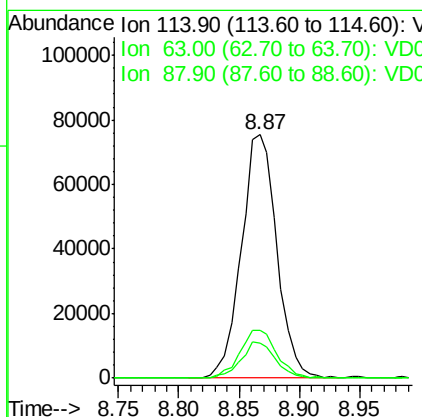
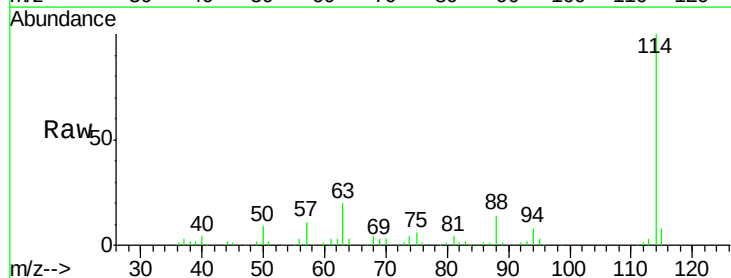
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 SB-4-(5-6)RE

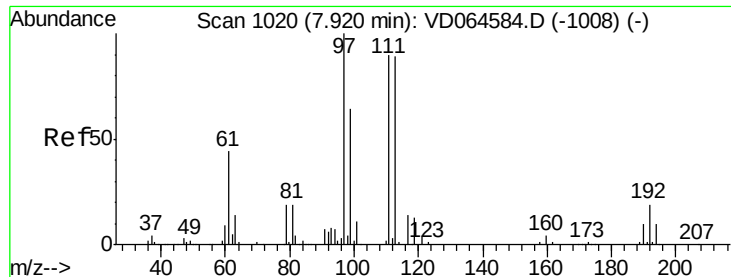
Tgt Ion: 65 Resp: 67689
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064644.D
 Acq: 27 Dec 2019 14:54

Tgt Ion: 114 Resp: 154390
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 38.0
 88 14.4 0.0 29.2

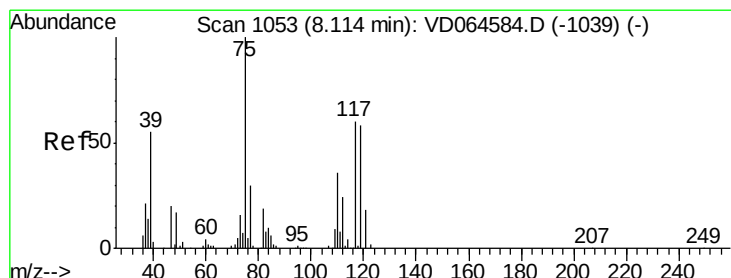
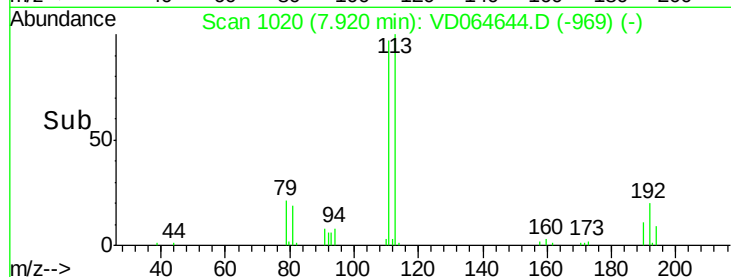
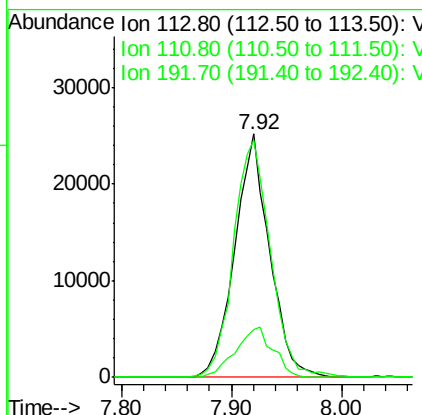
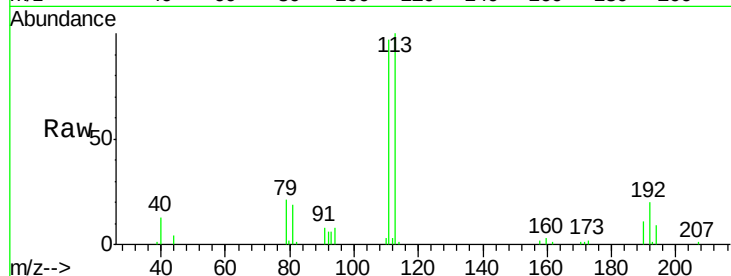




#35
 Dibromofluoromethane
 Concen: 58.723 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064644.D
 Acq: 27 Dec 2019 14:54

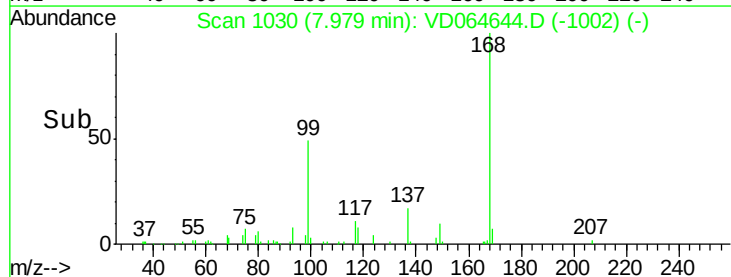
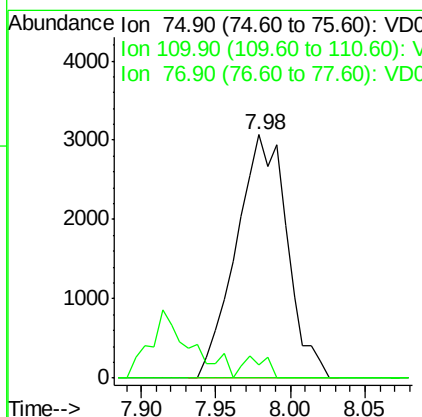
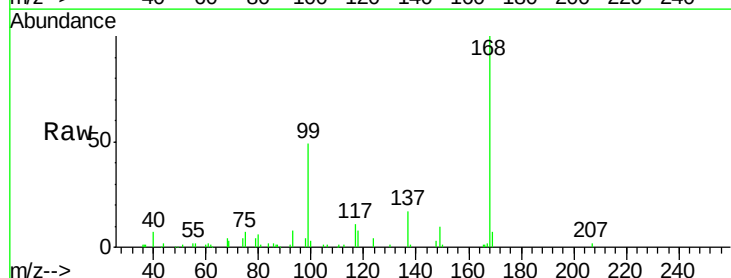
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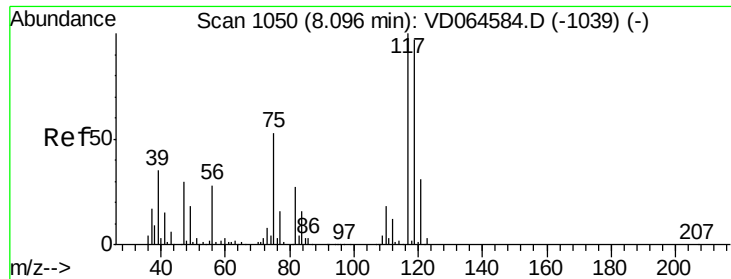
Tgt Ion:113 Resp: 55623
 Ion Ratio Lower Upper
 113 100
 111 103.8 80.6 121.0
 192 22.0 17.9 26.9



#36
 1,1-Dichloropropene
 Concen: 4.891 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.14 min
 Lab File: VD064644.D
 Acq: 27 Dec 2019 14:54

Tgt Ion: 75 Resp: 7268
 Ion Ratio Lower Upper
 75 100
 110 4.1 18.1 54.1#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 6.783 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD064644.D

Acq: 27 Dec 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

SB-4-(5-6)RE

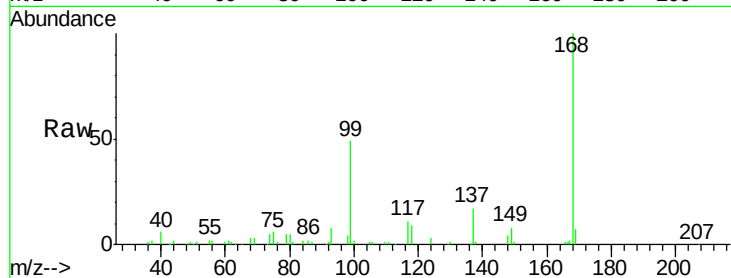
Tgt Ion:117 Resp: 10748

Ion Ratio Lower Upper

117 100

119 0.0 77.3 115.9#

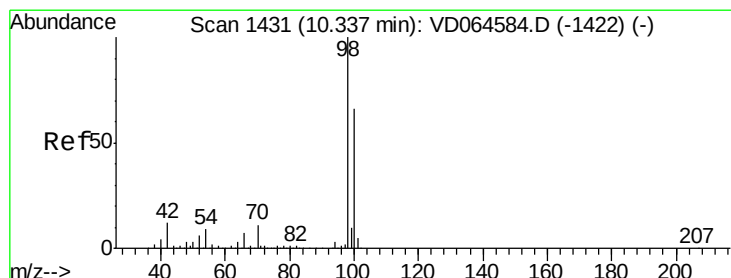
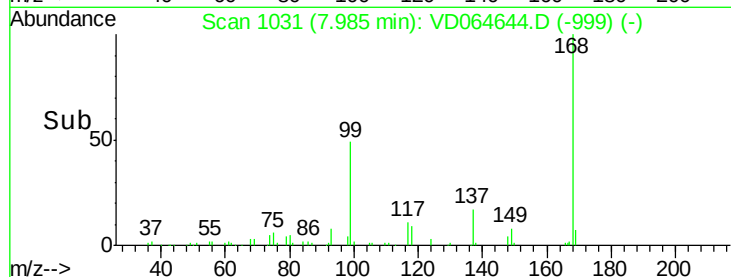
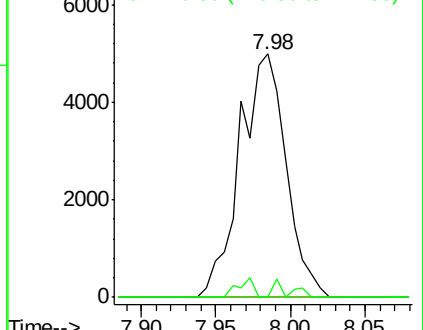
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 52.890 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064644.D

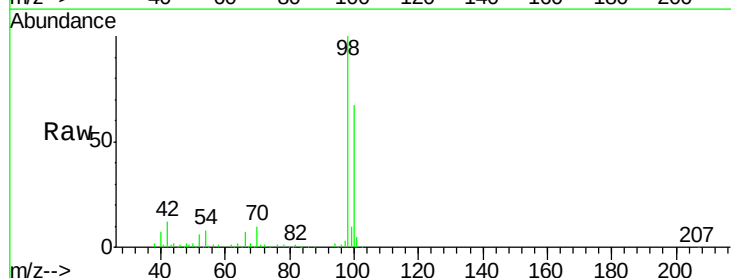
Acq: 27 Dec 2019 14:54

Tgt Ion: 98 Resp: 191871

Ion Ratio Lower Upper

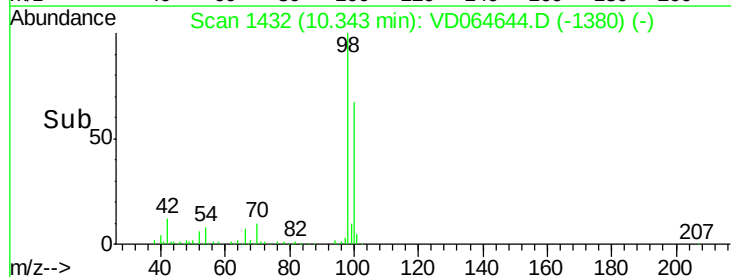
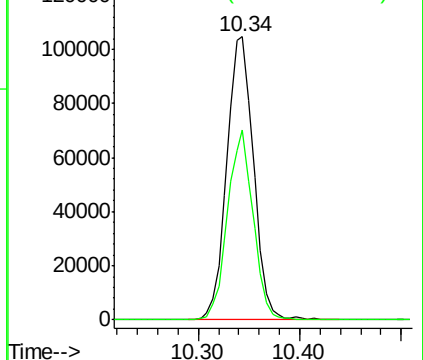
98 100

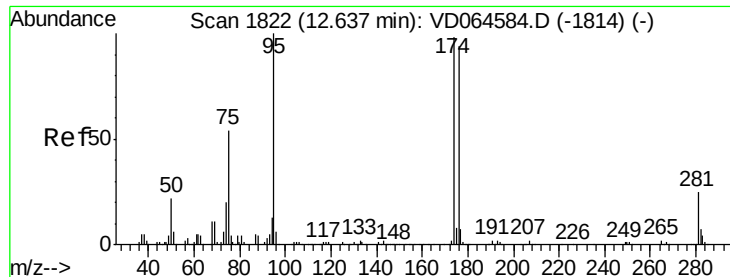
100 64.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

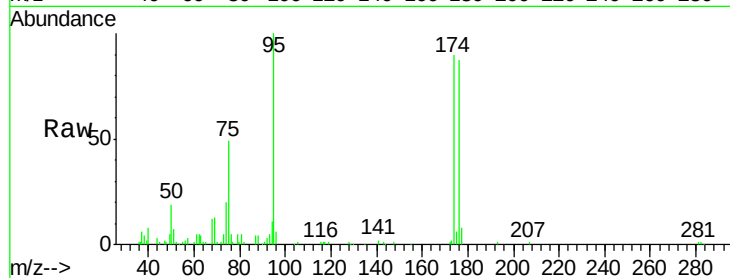




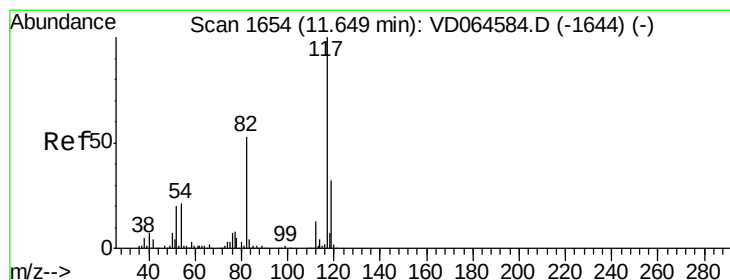
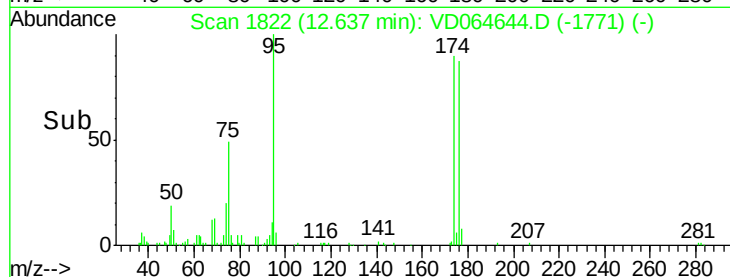
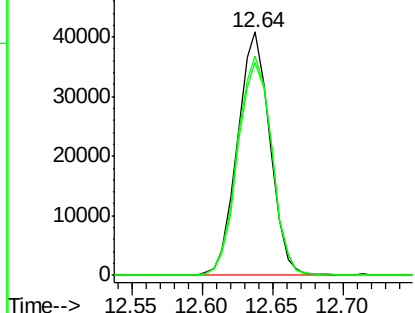
#62
4-Bromofluorobenzene
Concen: 57.215 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064644.D
Acq: 27 Dec 2019 14:54

Instrument :
MSVOA_D
ClientSampleId :
SB-4-(5-6)RE

Tgt Ion: 95 Resp: 65632
Ion Ratio Lower Upper
95 100
174 95.9 0.0 193.2
176 93.3 0.0 184.2

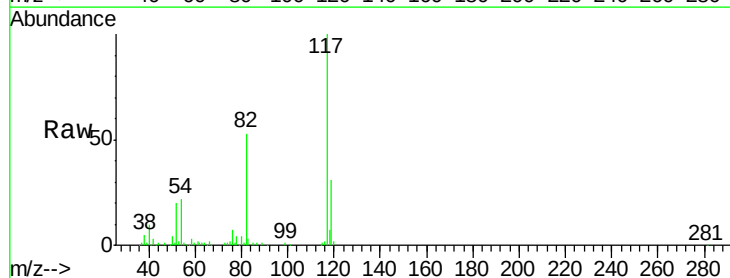


Abundance Ion 94.90 (94.60 to 95.60): V
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

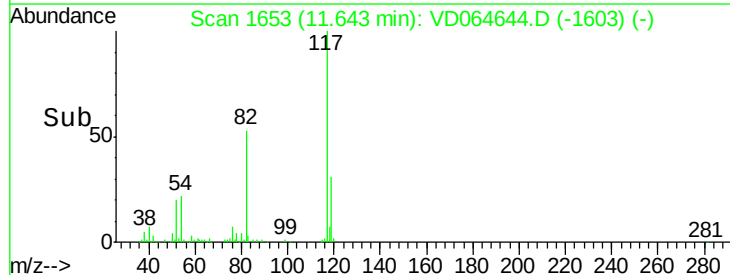
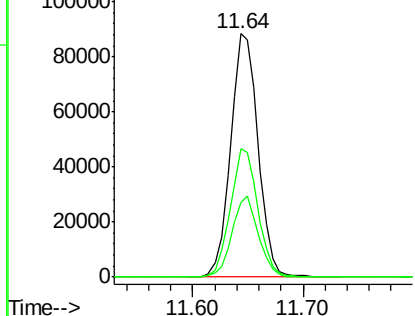


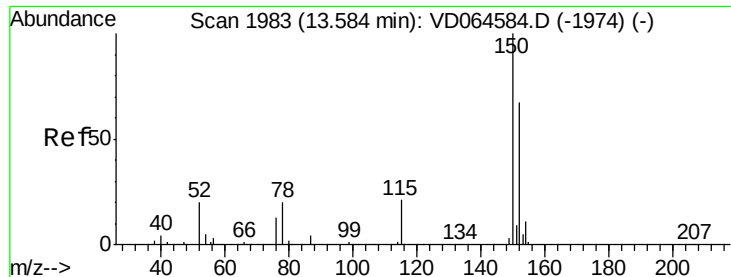
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1653
Delta R.T. -0.01 min
Lab File: VD064644.D
Acq: 27 Dec 2019 14:54

Tgt Ion: 117 Resp: 153661
Ion Ratio Lower Upper
117 100
82 52.8 42.2 63.4
119 30.8 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD064644.D

Acq: 27 Dec 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

SB-4-(5-6)RE

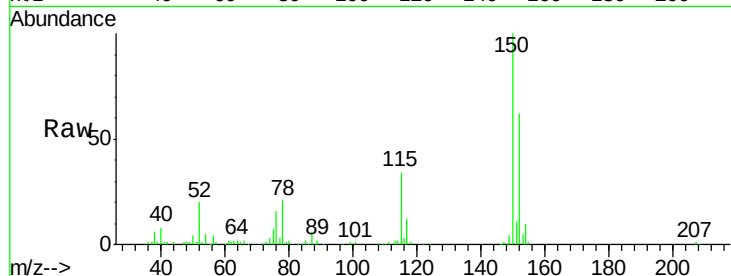
Tgt Ion:152 Resp: 76028

Ion Ratio Lower Upper

152 100

115 57.2 27.8 83.4

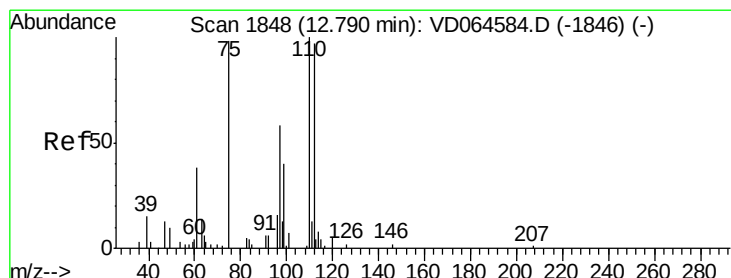
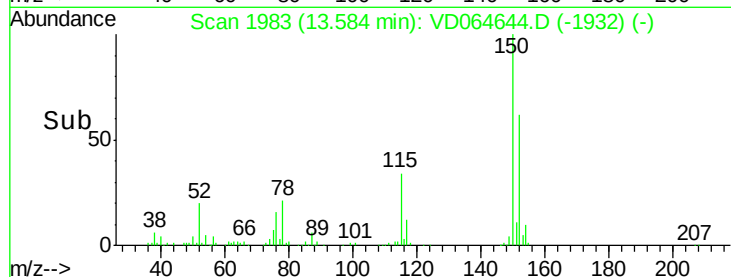
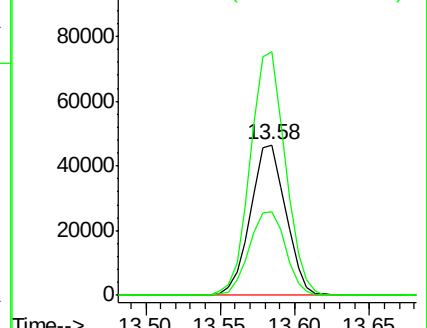
150 161.0 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 54.865 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064644.D

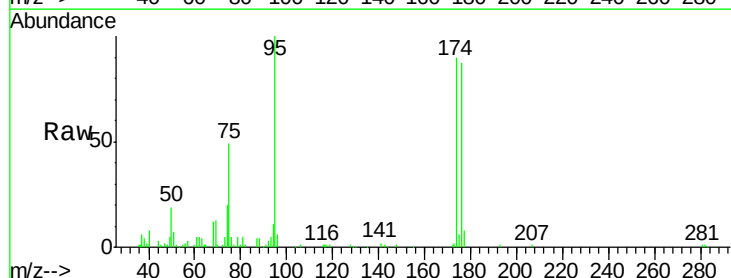
Acq: 27 Dec 2019 14:54

Tgt Ion: 75 Resp: 32939

Ion Ratio Lower Upper

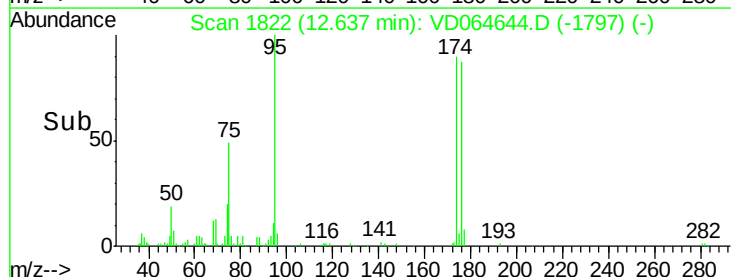
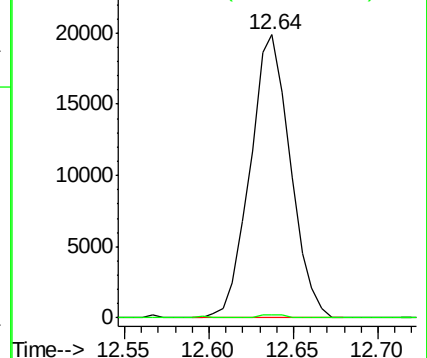
75 100

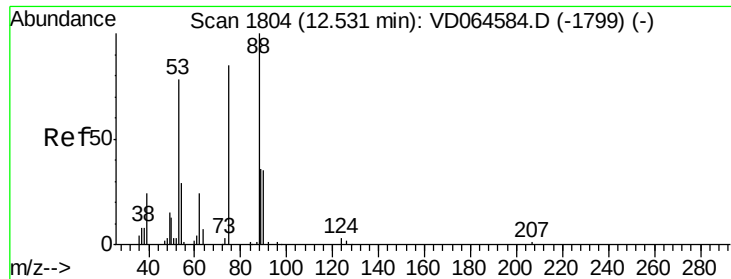
77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 114.748 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064644.D

Acq: 27 Dec 2019 14:54

Instrument :

MSVOA_D

ClientSampleId :

SB-4-(5-6)RE

Tgt Ion: 75 Resp: 32939

Ion Ratio Lower Upper

75 100

53 0.2 78.8 118.2#

89 0.0 38.3 57.5#

