

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD012120\
 Data File : VD064911.D
 Acq On : 21 Jan 2020 15:31
 Operator : VA/SY
 Sample : L1205-10RE
 Misc : 11.69G/5.00ml/MSVOA D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-2RE

Quant Time: Jan 22 05:28:06 2020
 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	17985	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	27029	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	28236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	13388	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	13563	85.52	ug/l	0.00
Spiked Amount			Recovery	=	171.04%	
35) Dibromofluoromethane	7.92	113	11295	68.11	ug/l	0.00
Spiked Amount			Recovery	=	136.22%	
50) Toluene-d8	10.34	98	32128	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	
62) 4-Bromofluorobenzene	12.64	95	12278	61.14	ug/l	0.00
Spiked Amount			Recovery	=	122.28%	

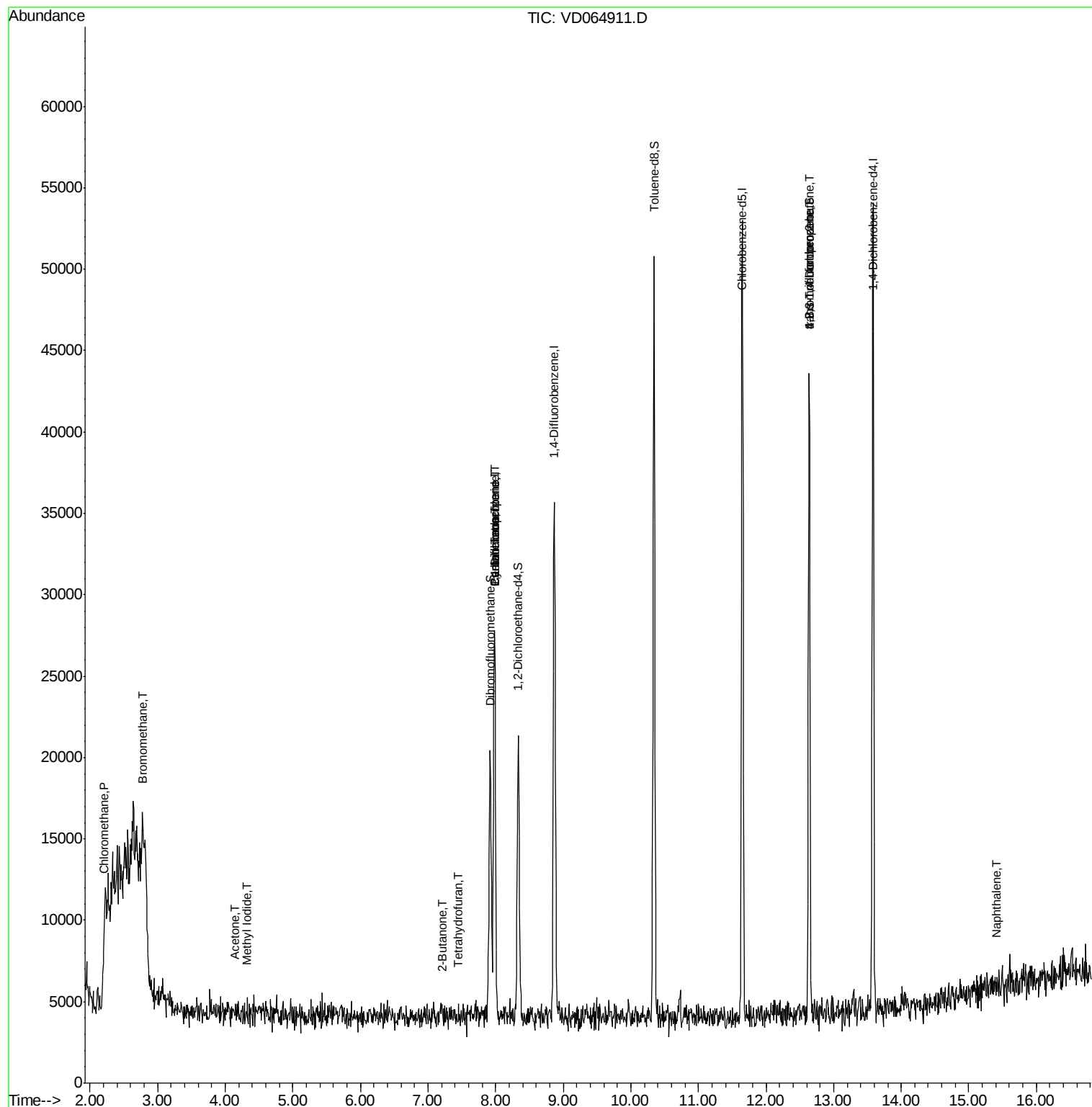
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.20	50	236	1.207	ug/l #	42
5) Bromomethane	2.79	94	945	5.453	ug/l #	78
10) Methyl Iodide	4.31	142	244	1.367	ug/l #	85
16) Acetone	4.16	43	190	9.197	ug/l #	42
20) Methylene Chloride	4.98	84	360	Below Cal	#	7
25) 2-Butanone	7.22	43	89	2.042	ug/l #	49
29) Tetrahydrofuran	7.44	42	74	2.730	ug/l #	33
31) Cyclohexane	7.99	56	308	1.042	ug/l #	18
36) 1,1-Dichloropropene	7.98	75	1545	5.939	ug/l #	41
38) Carbon Tetrachloride	7.99	117	1760	6.345	ug/l #	12
76) 1,2,3-Trichloropropane	12.64	75	6365	60.206	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	6365	125.919	ug/l #	10
95) Naphthalene	15.41	128	459	1.031	ug/l #	69

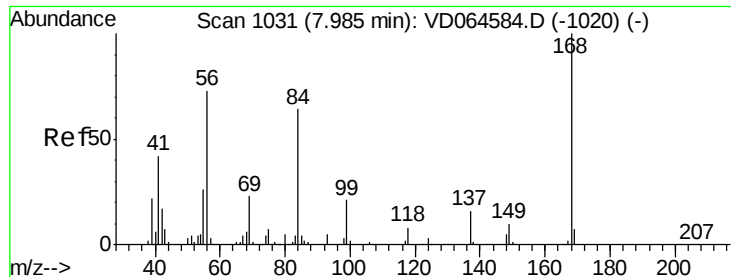
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 24 13:19:06 2019
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

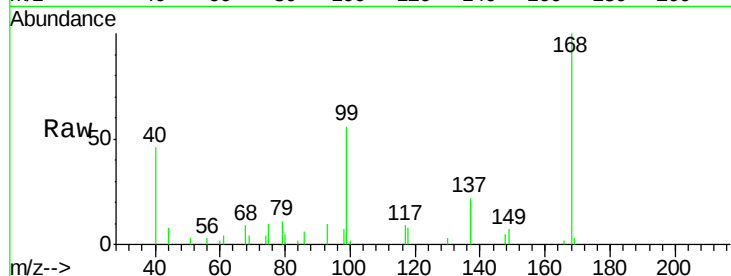
EP-2RE

Tot Ion:168 Resp: 17985

Ion Ratio Lower Upper

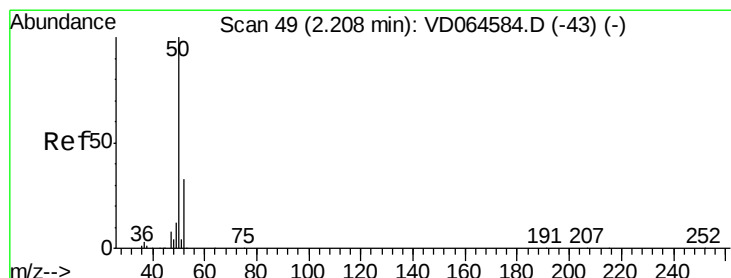
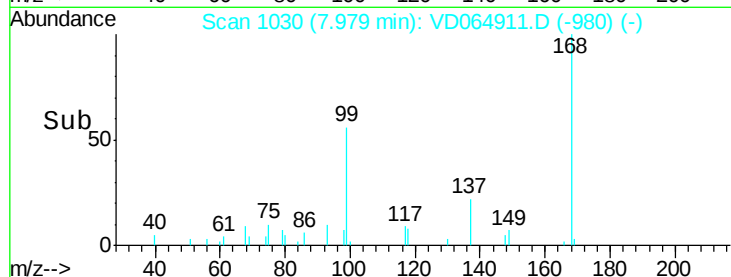
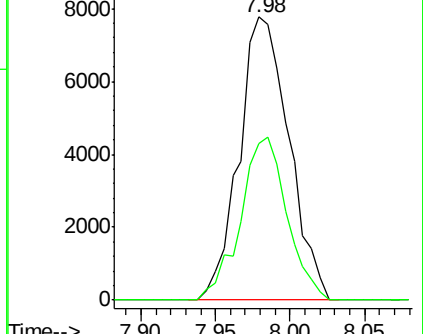
168 100

99 55.6 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 1.207 ug/l

RT: 2.20 min Scan# 48

Delta R.T. -0.01 min

Lab File: VD064911.D

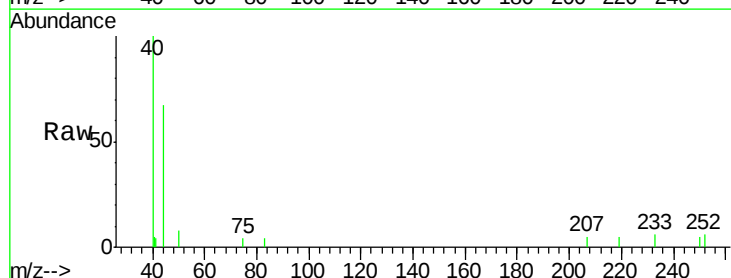
Acq: 21 Jan 2020 15:31

Tgt Ion: 50 Resp: 236

Ion Ratio Lower Upper

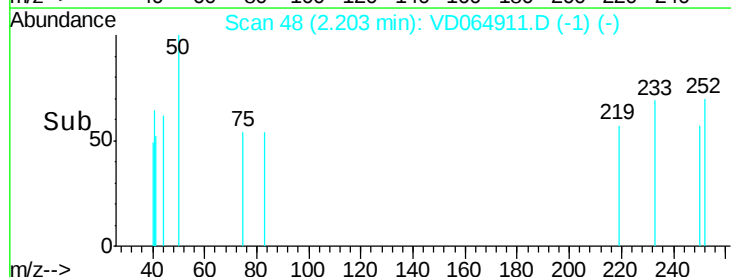
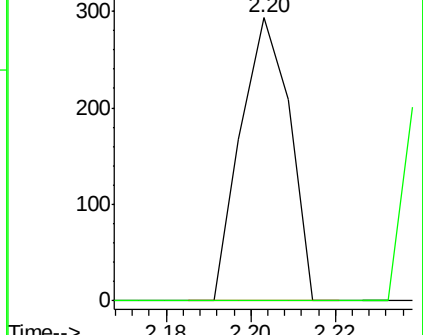
50 100

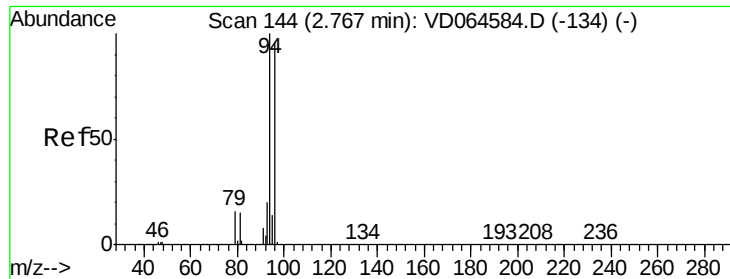
52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 5.453 ug/l

RT: 2.79 min Scan# 147

Delta R.T. 0.02 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

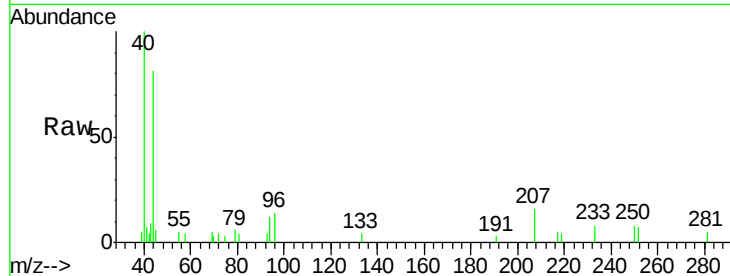
EP-2RE

Tot Ion: 94 Resp: 945

Ion Ratio Lower Upper

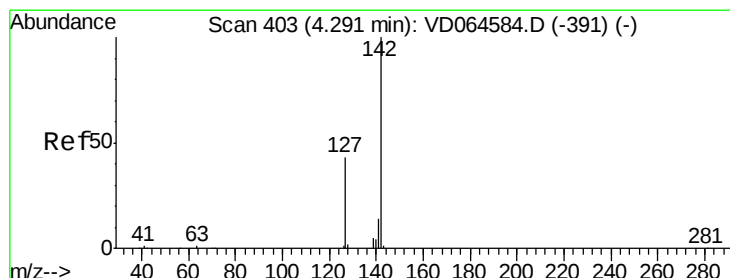
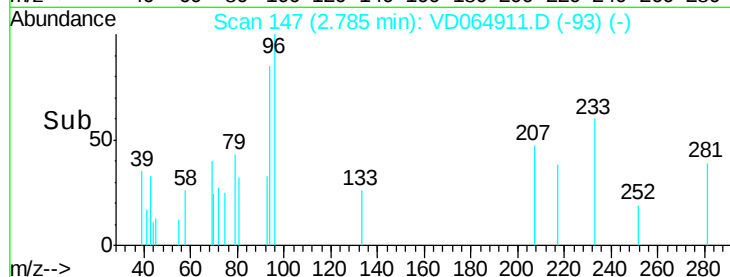
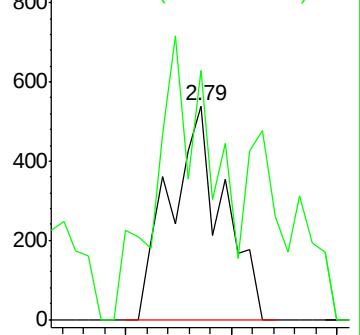
94 100

96 75.1 77.2 115.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC



#10

Methyl Iodide

Concen: 1.367 ug/l

RT: 4.31 min Scan# 406

Delta R.T. 0.02 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

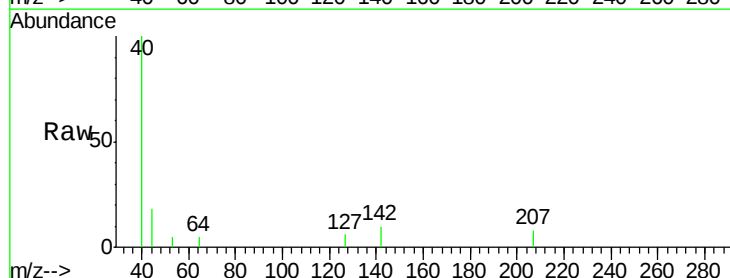
Tgt Ion: 142 Resp: 244

Ion Ratio Lower Upper

142 100

127 50.8 36.2 54.4

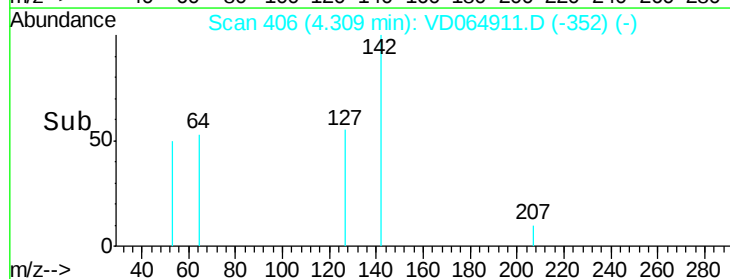
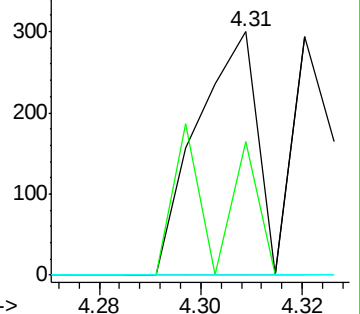
141 0.0 11.8 17.8#

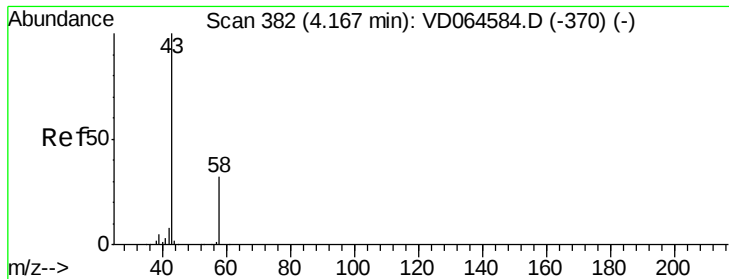


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#16

Acetone

Concen: 9.197 ug/l

RT: 4.16 min Scan# 380

Delta R.T. -0.01 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

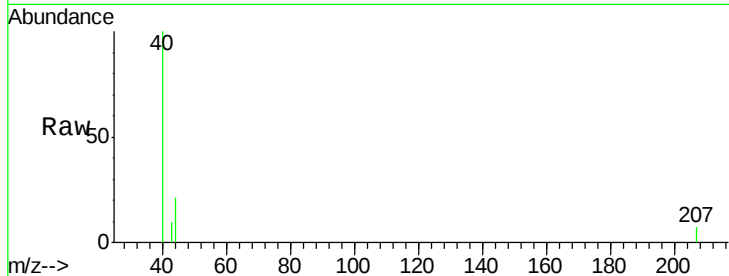
EP-2RE

Tot Ion: 43 Resp: 190

Ion Ratio Lower Upper

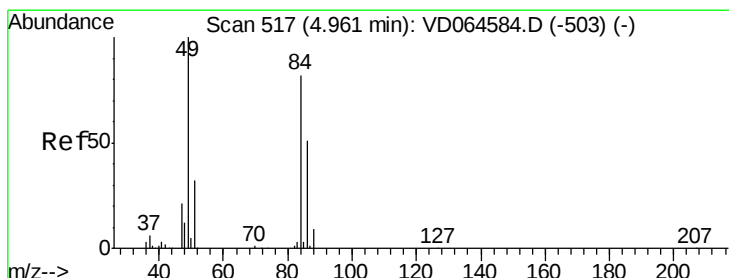
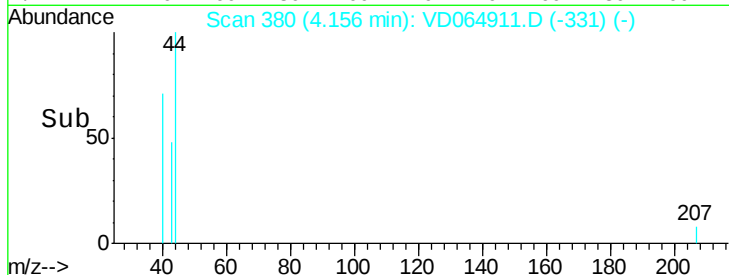
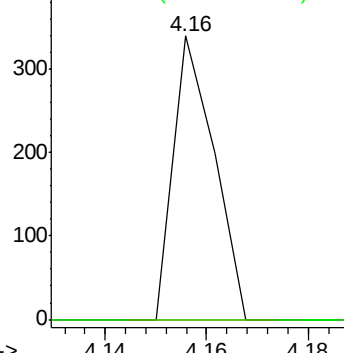
43 100

58 0.0 25.8 38.6#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.98 min Scan# 520

Delta R.T. 0.02 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

Tgt Ion: 84 Resp: 360

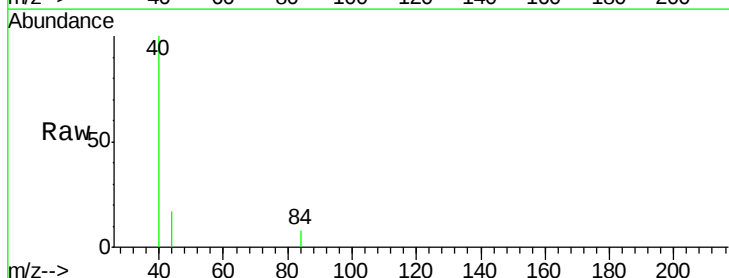
Ion Ratio Lower Upper

84 100

49 0.0 97.2 145.8#

51 0.0 31.4 47.0#

86 0.0 49.3 73.9#

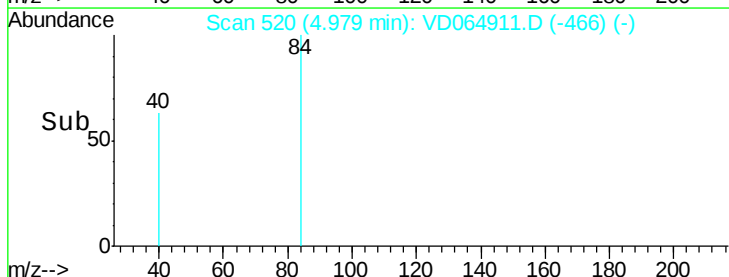
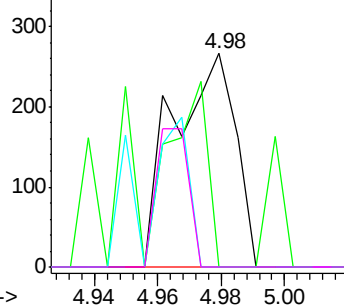


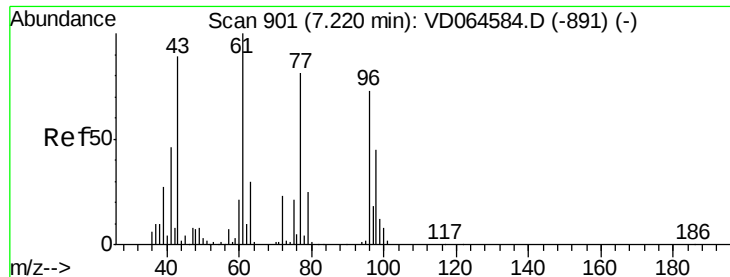
Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#25

2-Butanone

Concen: 2.042 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.00 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

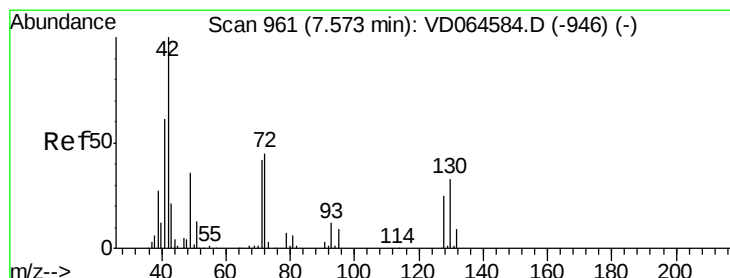
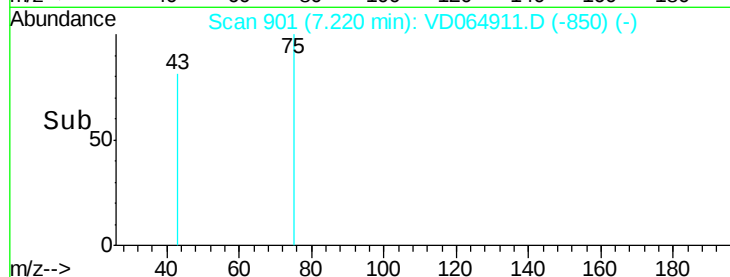
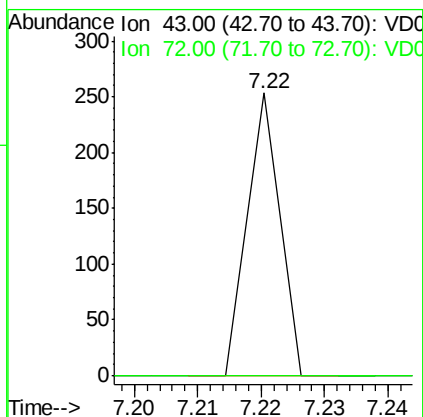
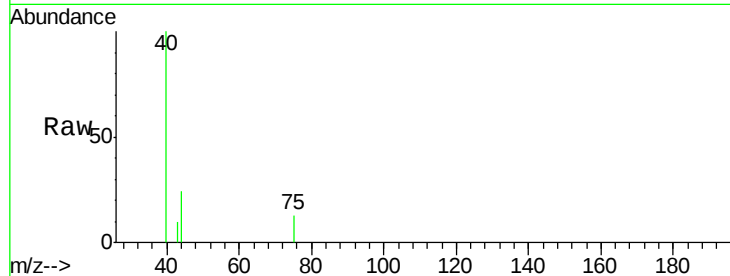
Instrument :
MSVOA_D
ClientSampleId :
EP-2RE

Tot Ion: 43 Resp: 89

Ion Ratio Lower Upper

43 100

72 0.0 20.7 31.1#



#29

Tetrahydrofuran

Concen: 2.730 ug/l

RT: 7.44 min Scan# 938

Delta R.T. -0.13 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

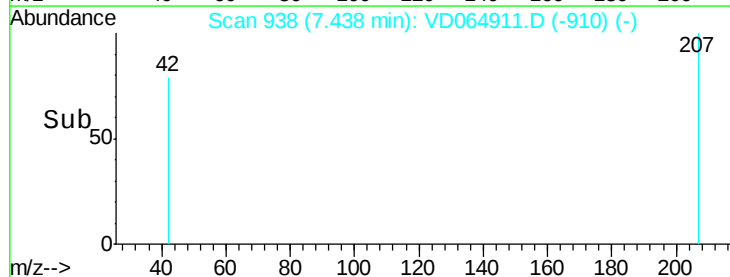
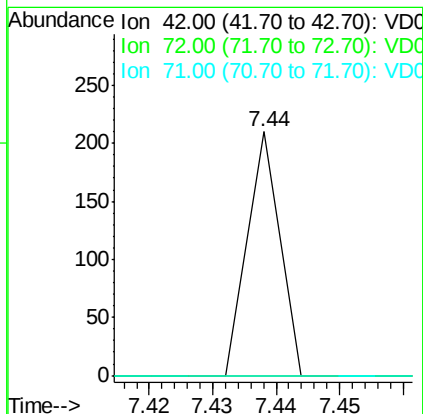
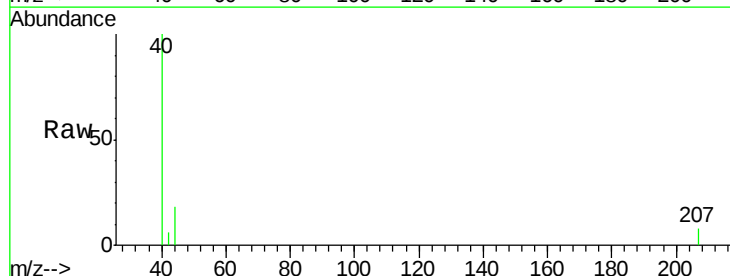
Tgt Ion: 42 Resp: 74

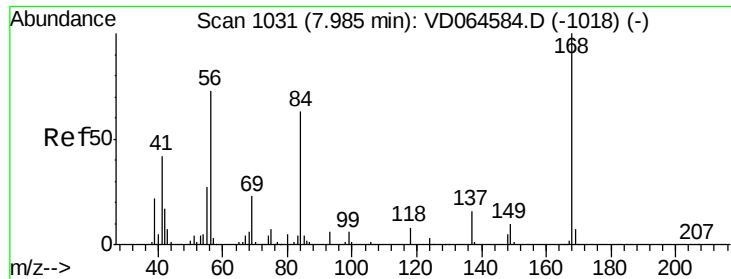
Ion Ratio Lower Upper

42 100

72 0.0 35.0 52.4#

71 0.0 32.9 49.3#

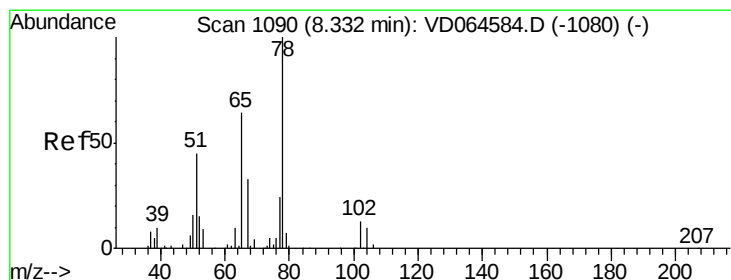
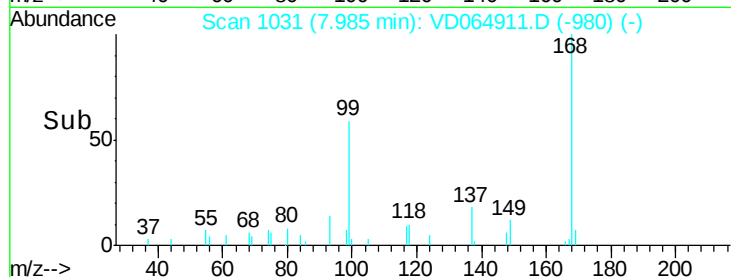
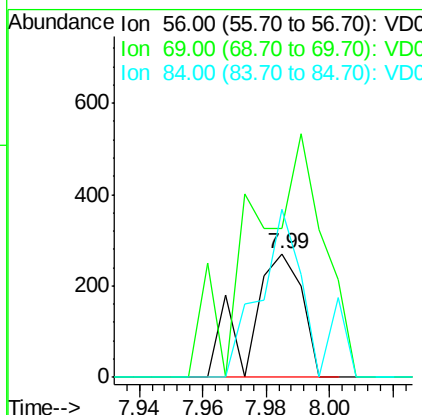
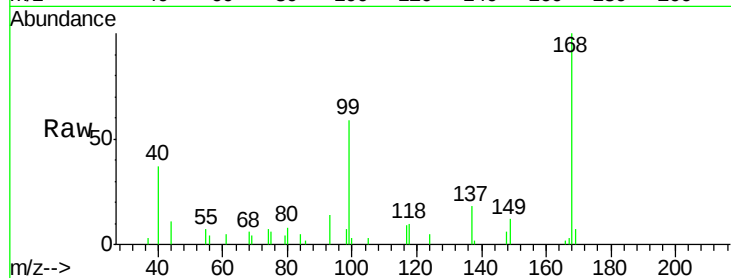




#31
Cyclohexane
Concen: 1.042 ug/l
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064911.D
Acq: 21 Jan 2020 15:31

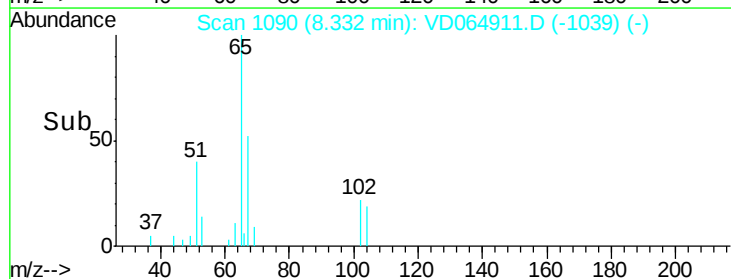
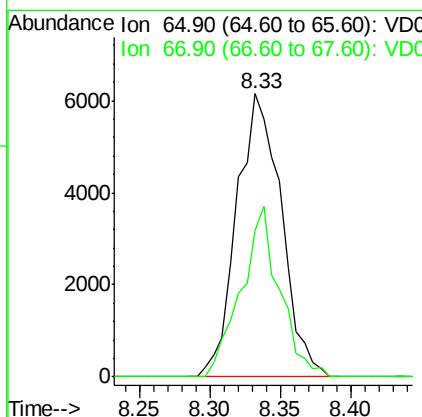
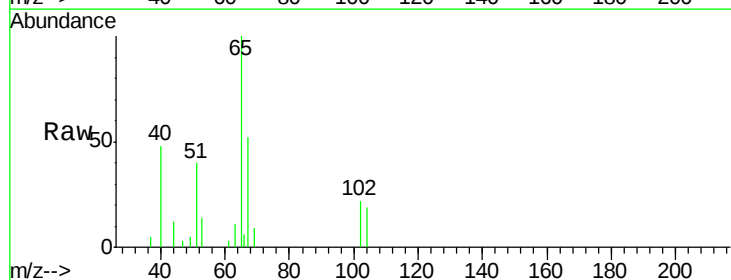
Instrument :
MSVOA_D
ClientSampleId :
EP-2RE

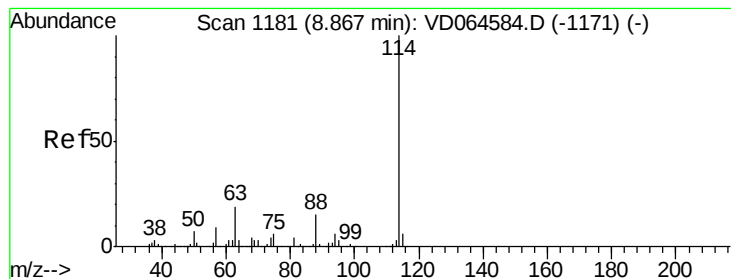
Tot Ion: 56 Resp: 308
Ion Ratio Lower Upper
56 100
69 119.9 24.7 37.1#
84 136.2 69.4 104.2#



#33
1,2-Dichloroethane-d4
Concen: 85.523 ug/l
RT: 8.33 min Scan# 1090
Delta R.T. 0.00 min
Lab File: VD064911.D
Acq: 21 Jan 2020 15:31

Tgt Ion: 65 Resp: 13563
Ion Ratio Lower Upper
65 100
67 52.2 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: VD064911.D

Acq: 21 Jan 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

EP-2RE

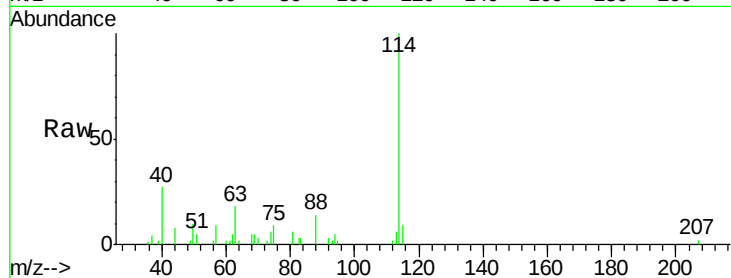
Tot Ion:114 Resp: 27029

Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.0

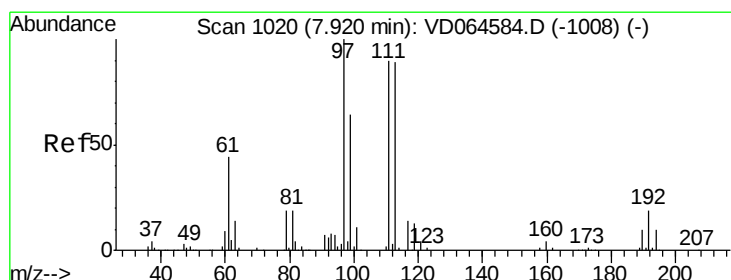
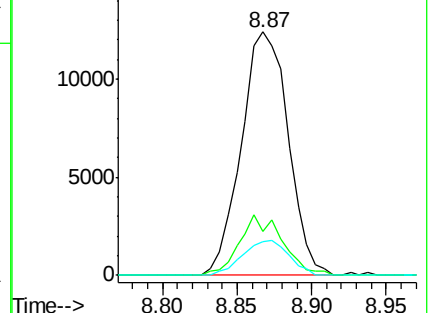
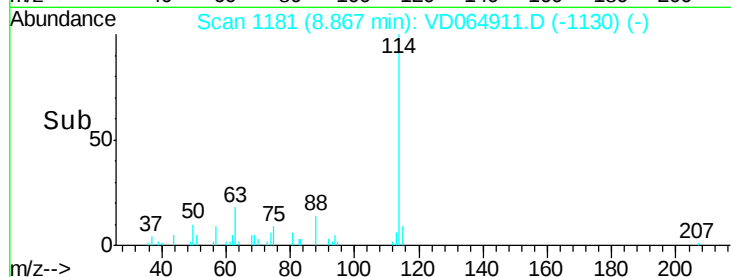
88 14.0 0.0 29.2



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: 68.113 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

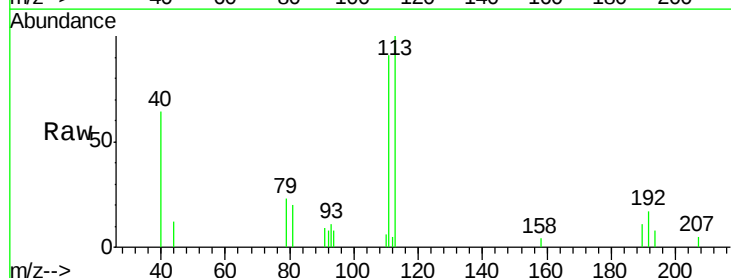
Tgt Ion:113 Resp: 11295

Ion Ratio Lower Upper

113 100

111 100.5 80.6 121.0

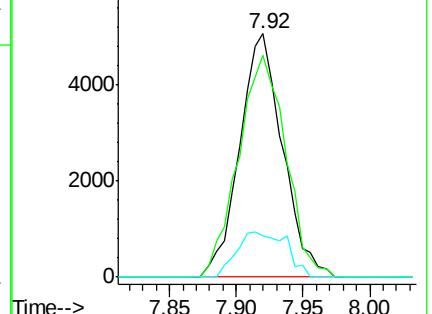
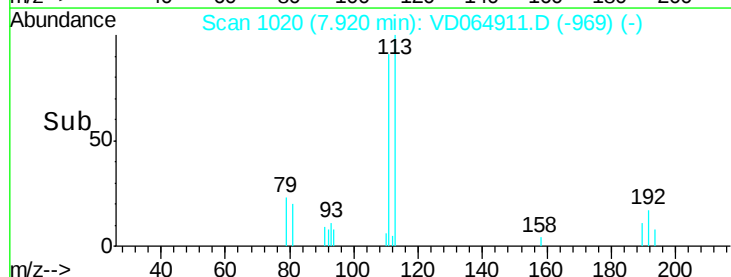
192 21.6 17.9 26.9

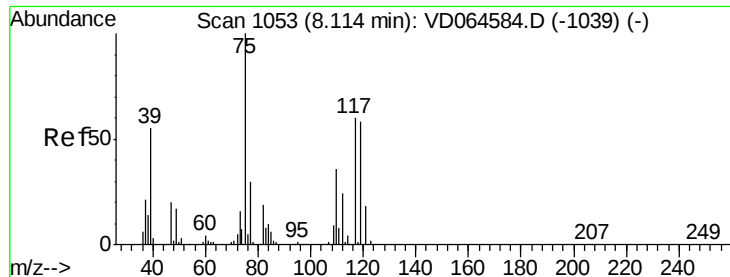


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.939 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.13 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

EP-2RE

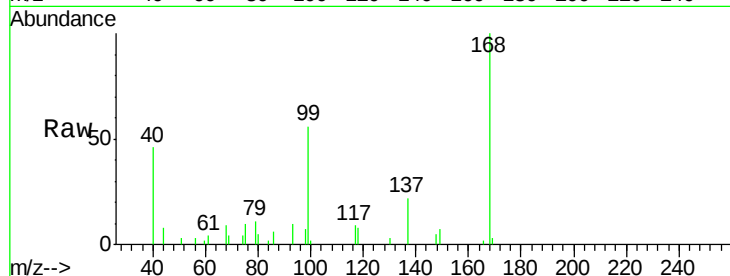
Tot Ion: 75 Resp: 1545

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.1#

77 0.0 24.2 36.4#

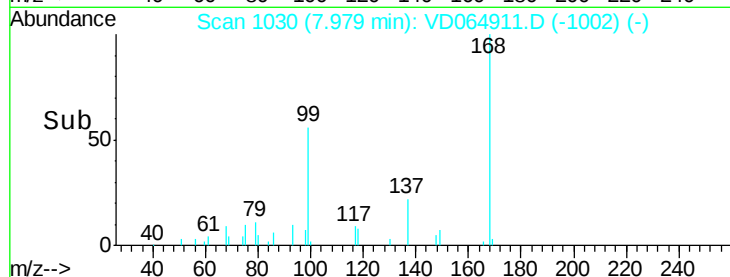


Abundance Ion 74.90 (74.60 to 75.60): V

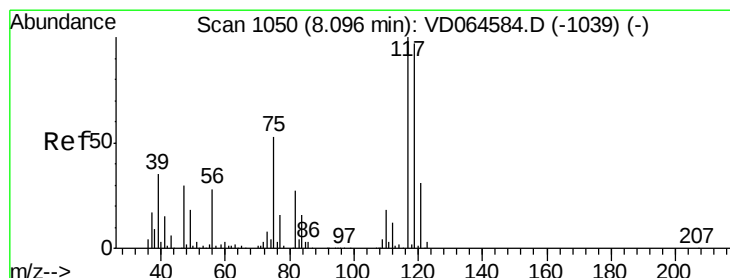
Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 6.345 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

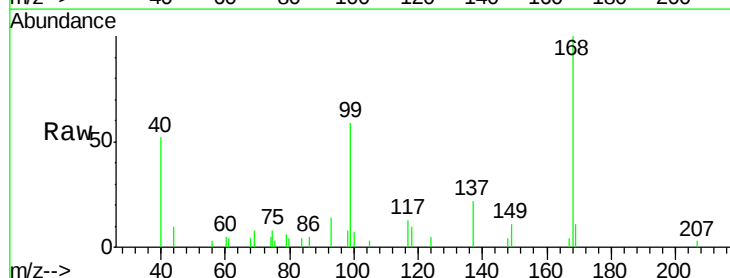
Tgt Ion: 117 Resp: 1760

Ion Ratio Lower Upper

117 100

119 0.0 77.3 115.9#

121 0.0 25.0 37.6#

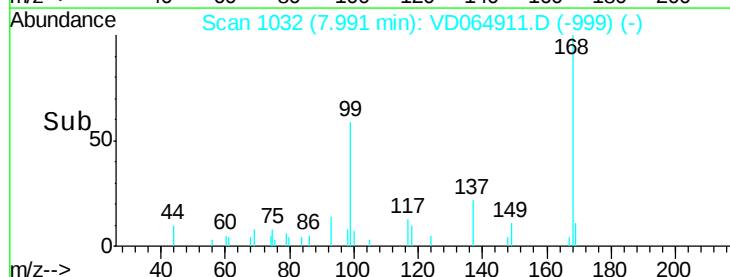


Abundance Ion 116.80 (116.50 to 117.50): V

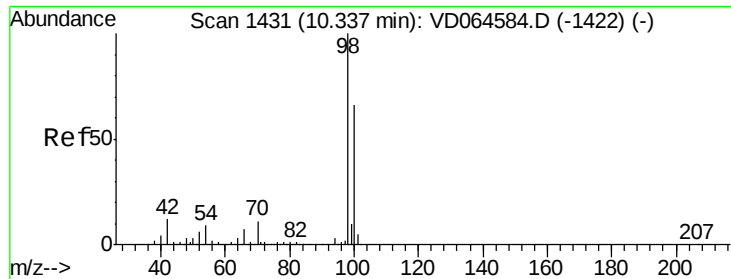
Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

Time-->



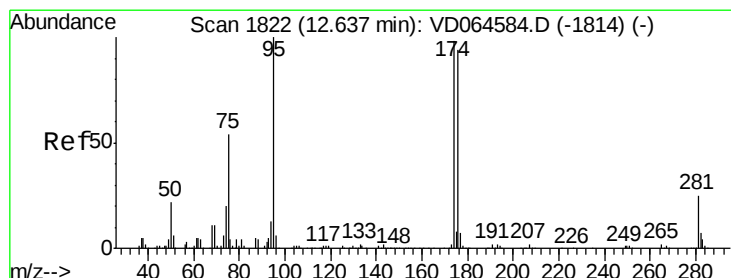
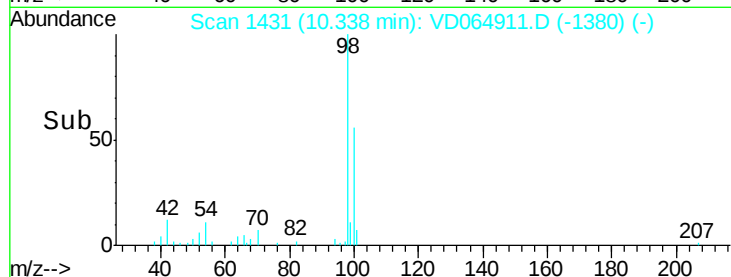
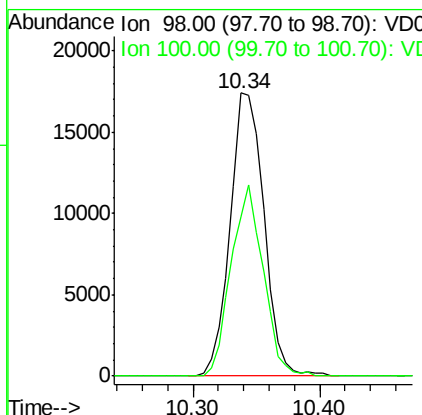
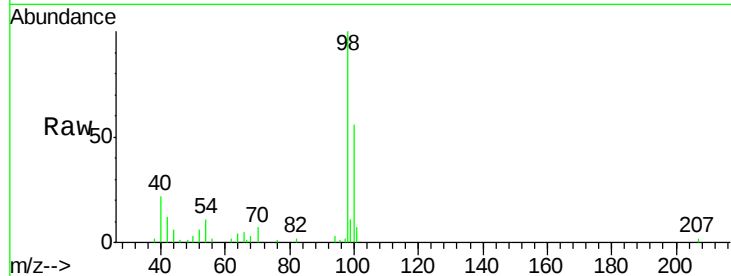
Time-->



#50
Toluene-d8
Concen: 50.587 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. 0.00 min
Lab File: VD064911.D
Acq: 21 Jan 2020 15:31

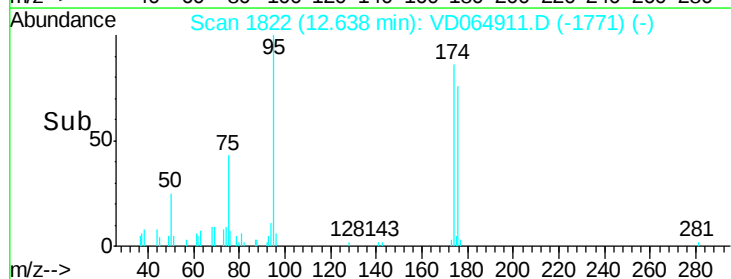
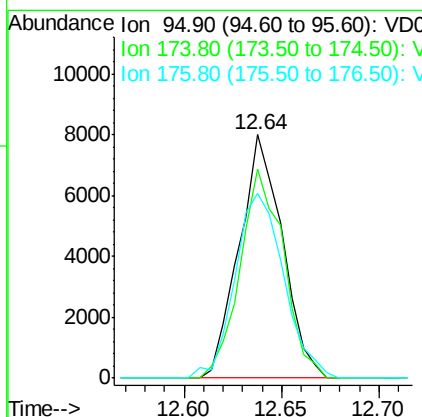
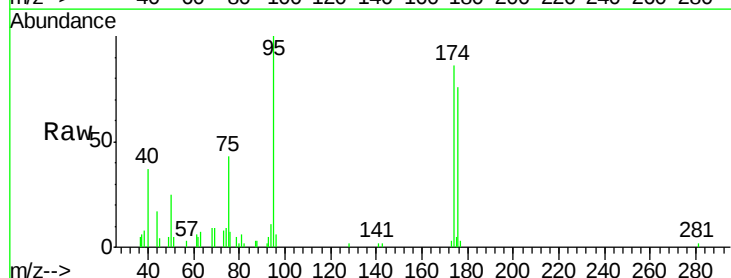
Instrument :
MSVOA_D
ClientSampleId :
EP-2RE

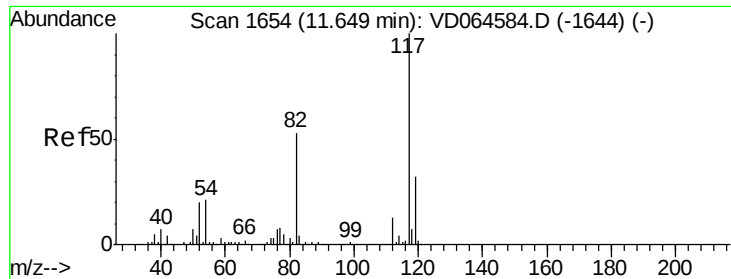
Tot Ion: 98 Resp: 32128
Ion Ratio Lower Upper
98 100
100 64.3 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 61.138 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064911.D
Acq: 21 Jan 2020 15:31

Tgt Ion: 95 Resp: 12278
Ion Ratio Lower Upper
95 100
174 86.3 0.0 193.2
176 85.8 0.0 184.2

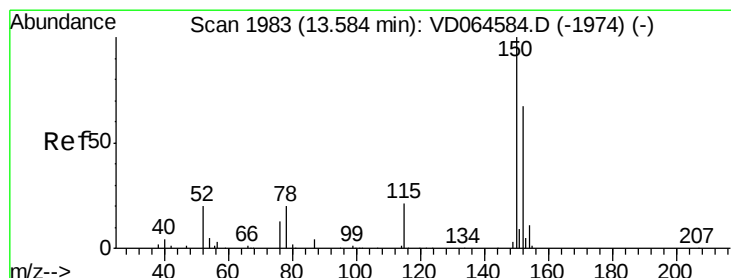
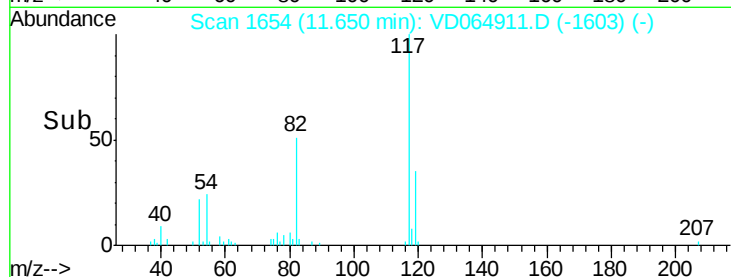
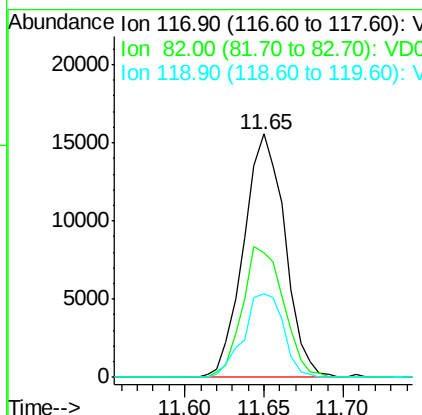
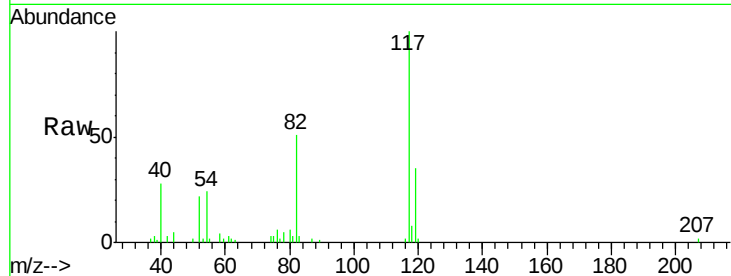




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064911.D
Acq: 21 Jan 2020 15:31

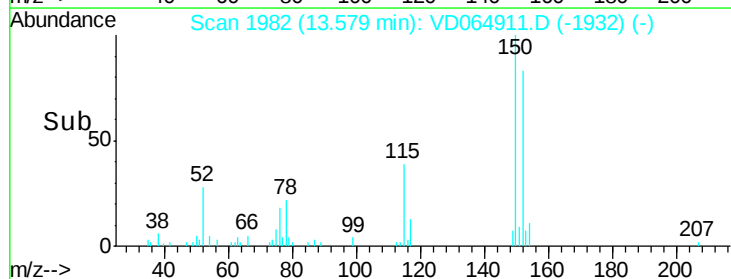
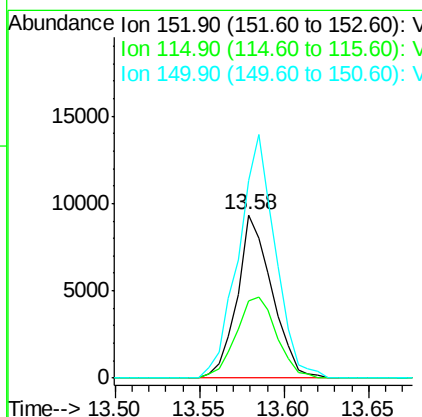
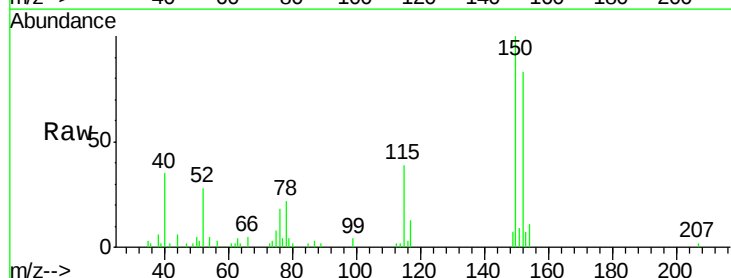
Instrument :
MSVOA_D
ClientSampleId :
EP-2RE

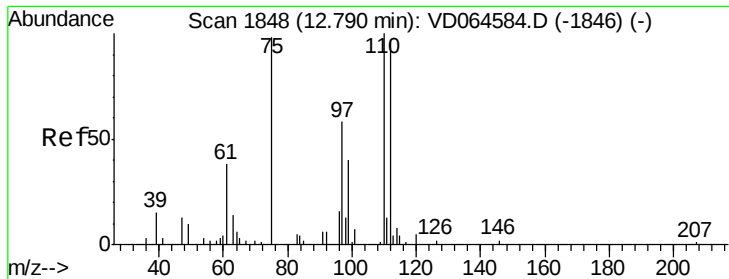
Tot Ion:117 Resp: 28236
Ion Ratio Lower Upper
117 100
82 51.0 42.2 63.4
119 34.5 26.0 39.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064911.D
Acq: 21 Jan 2020 15:31

Tgt Ion:152 Resp: 13388
Ion Ratio Lower Upper
152 100
115 57.9 27.8 83.4
150 157.8 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 60.206 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

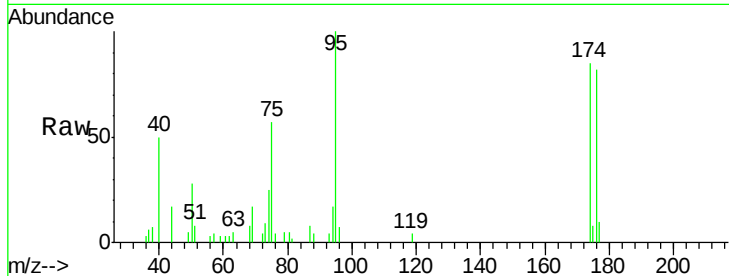
EP-2RE

Tot Ion: 75 Resp: 6365

Ion Ratio Lower Upper

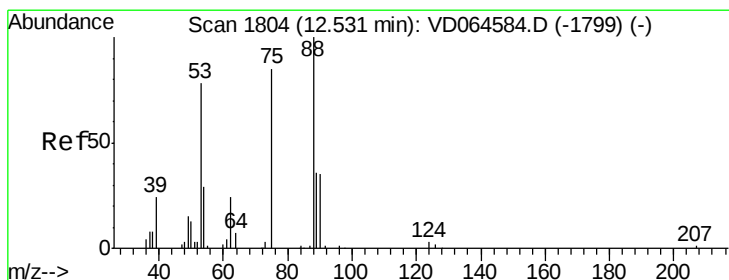
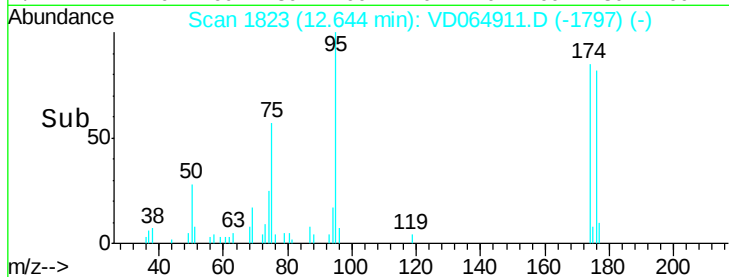
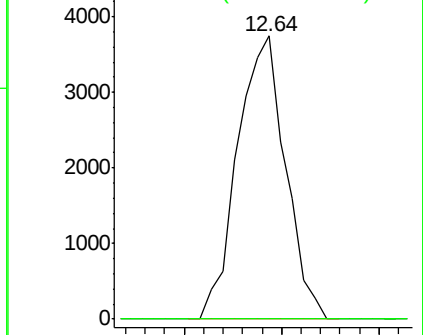
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 125.919 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

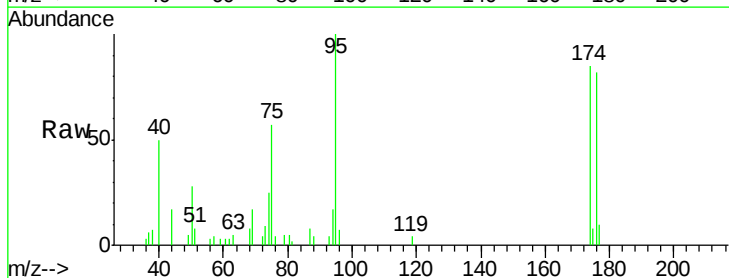
Tgt Ion: 75 Resp: 6365

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

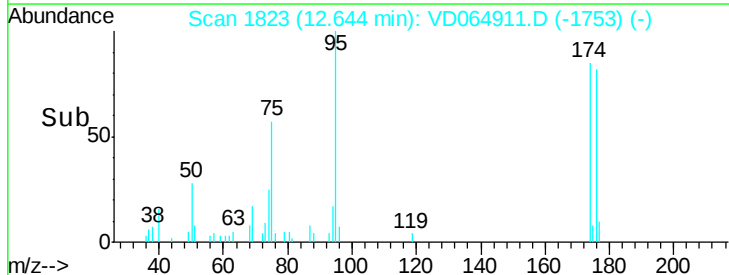
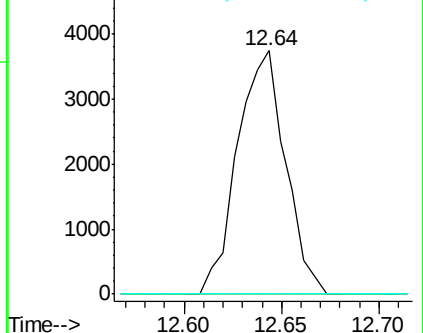
89 0.0 38.3 57.5#

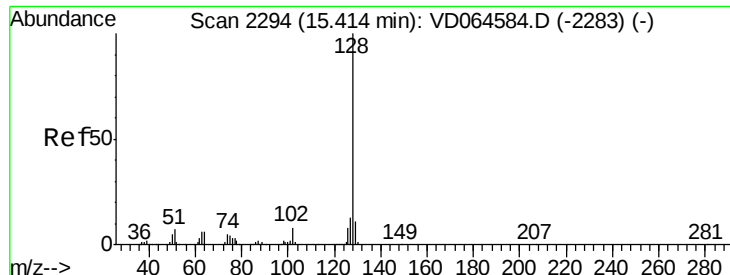


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95

Naphthalene

Concen: 1.031 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD064911.D

Acq: 21 Jan 2020 15:31

Instrument :

MSVOA_D

ClientSampleId :

EP-2RE

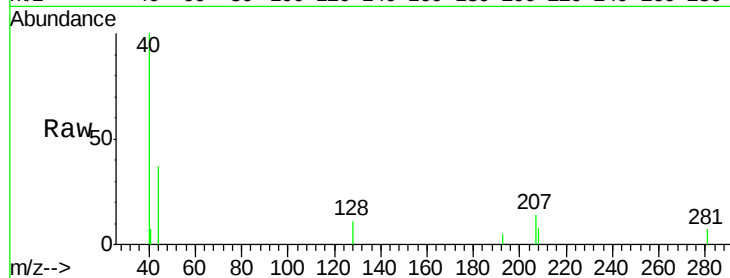
Tot Ion:128 Resp: 459

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

