

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD121719\
 Data File : VD064542.D
 Acq On : 17 Dec 2019 13:44
 Operator : VA/SY
 Sample : K6324-02
 Misc : 5.55G/5.00ml/MSVOA D/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-10

Quant Time: Dec 18 00:48:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.99	168	15558	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.86	114	24009	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	23270	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	12462	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	8871	62.99	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	125.98%	
35) Dibromofluoromethane	7.92	113	8385	55.43	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	110.86%	
50) Toluene-d8	10.34	98	28049	49.22	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.44%	
62) 4-Bromofluorobenzene	12.64	95	10260	56.03	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	112.06%	

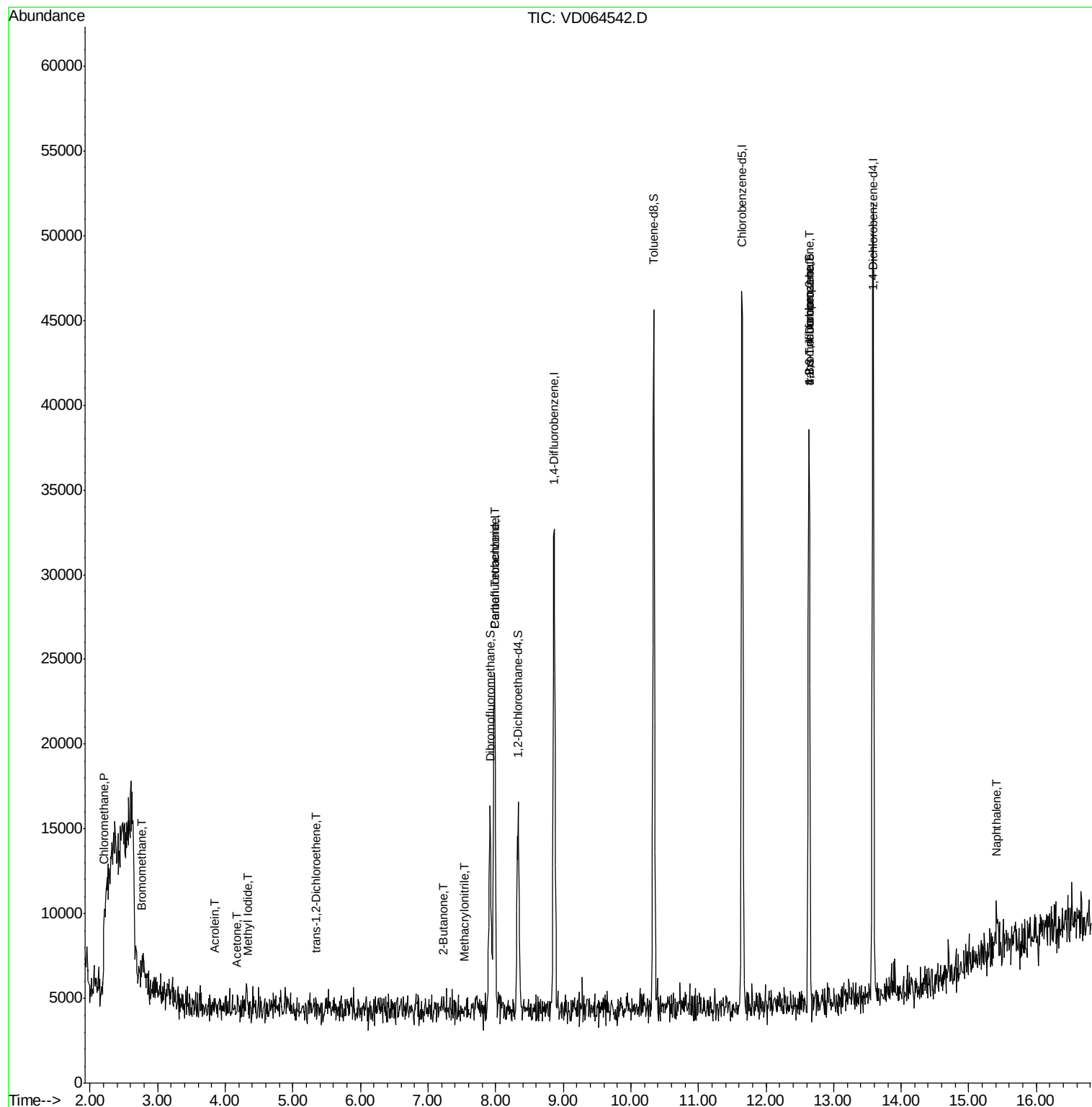
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.21	50	498	2.801	ug/l	92
5) Bromomethane	2.77	94	955	6.290	ug/l #	47
10) Methyl Iodide	4.33	142	799	5.170	ug/l #	70
13) Acrolein	3.85	56	59	4.825	ug/l #	14
16) Acetone	4.17	43	69	2.425	ug/l #	47
20) Methylene Chloride	4.96	84	58	Below Cal	#	14
21) trans-1,2-Dichloroethene	5.34	96	184	1.160	ug/l #	1
25) 2-Butanone	7.23	43	68	1.690	ug/l #	49
31) Cyclohexane	7.99	56	356	Below Cal	#	37
38) Carbon Tetrachloride	7.99	117	1497	6.246	ug/l #	11
41) Methacrylonitrile	7.54	41	101	1.828	ug/l #	26
76) 1,2,3-Trichloropropane	12.63	75	5326	51.969	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.63	75	5326	113.320	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.51	75	55	Below Cal	#	1
95) Naphthalene	15.41	128	1682	3.666	ug/l #	74

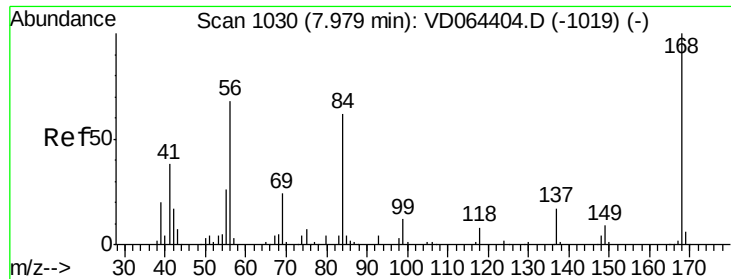
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.01 min

Lab File: VD064542.D

Acq: 17 Dec 2019 13:44

Instrument :

MSVOA_D

ClientSampleId :

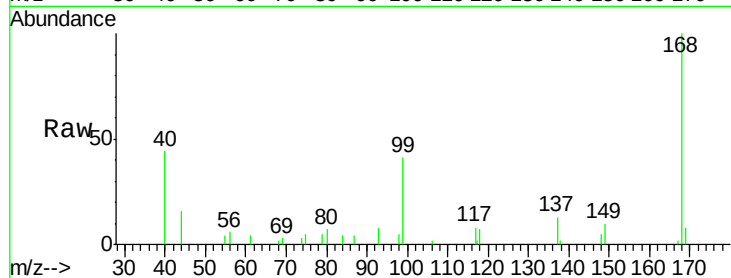
EP-10

Tot Ion:168 Resp: 15558

Ion Ratio Lower Upper

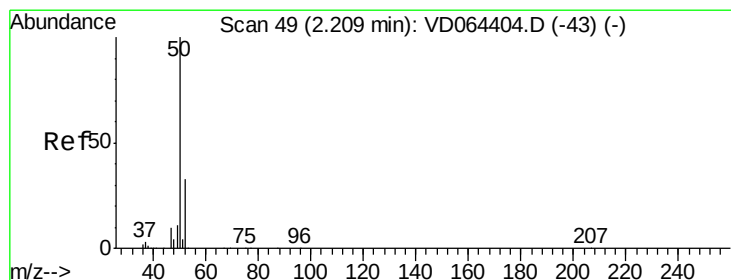
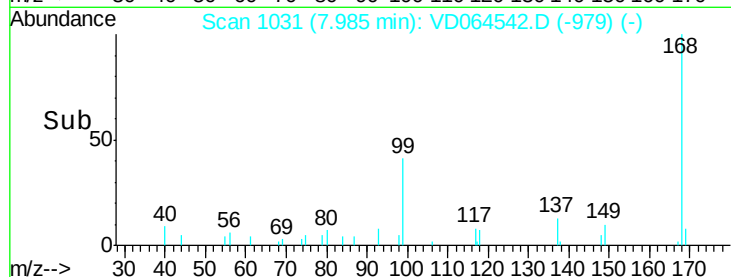
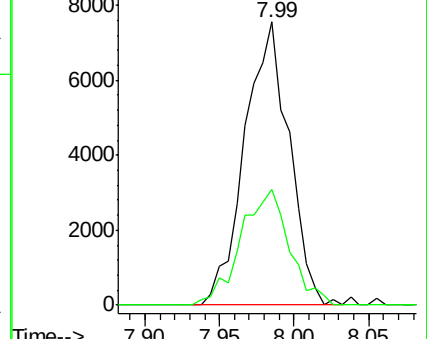
168 100

99 40.7 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#3

Chloromethane

Concen: 2.801 ug/l

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD064542.D

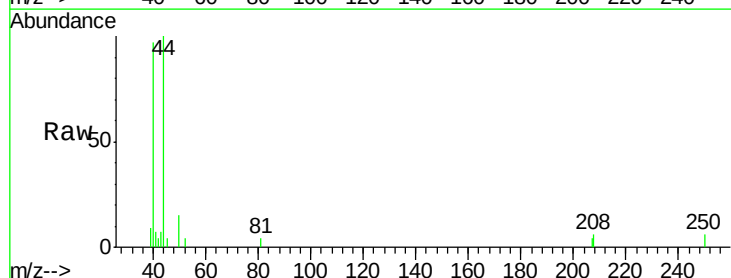
Acq: 17 Dec 2019 13:44

Tgt Ion: 50 Resp: 498

Ion Ratio Lower Upper

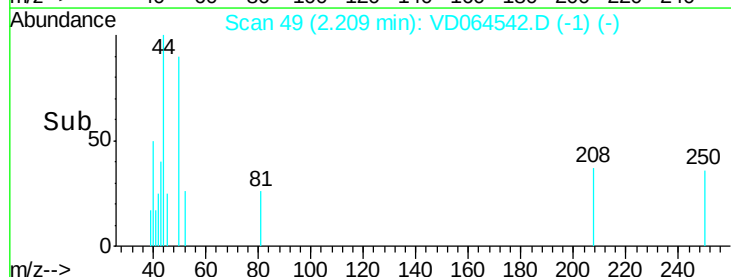
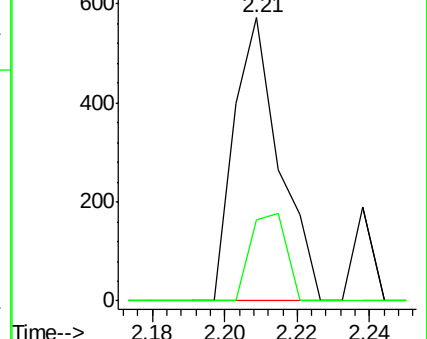
50 100

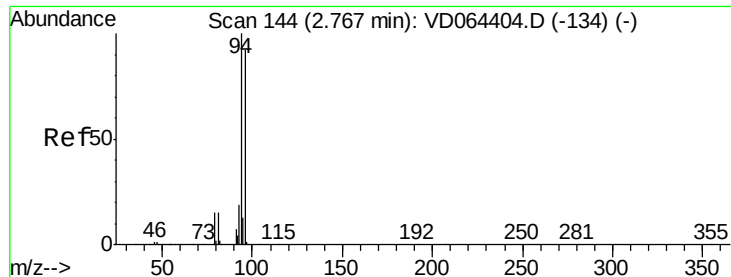
52 28.7 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC





#5

Bromomethane

Concen: 6.290 ug/l

RT: 2.77 min Scan# 145

Delta R.T. 0.01 min

Lab File: VD064542.D

Acq: 17 Dec 2019 13:44

Instrument :

MSVOA_D

ClientSampled :

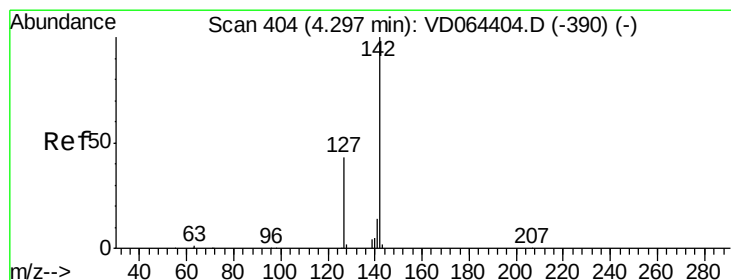
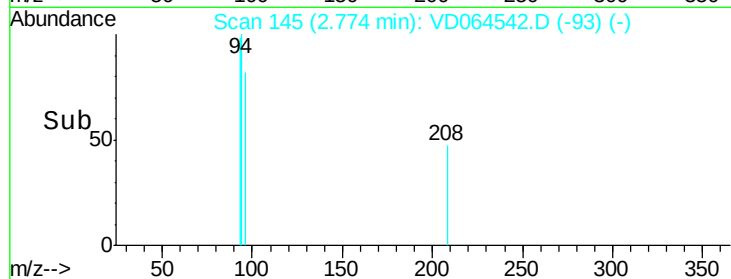
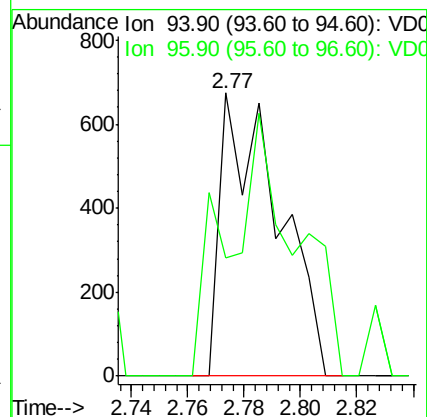
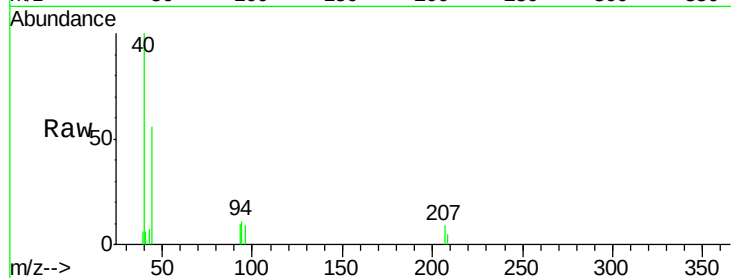
EP-10

Tot Ion: 94 Resp: 955

Ion Ratio Lower Upper

94 100

96 41.7 73.6 110.4#



#10

Methyl Iodide

Concen: 5.170 ug/l

RT: 4.33 min Scan# 410

Delta R.T. 0.04 min

Lab File: VD064542.D

Acq: 17 Dec 2019 13:44

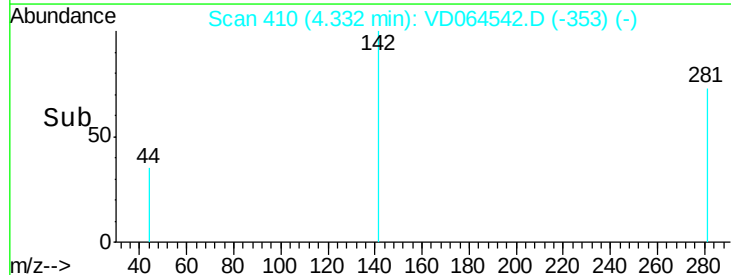
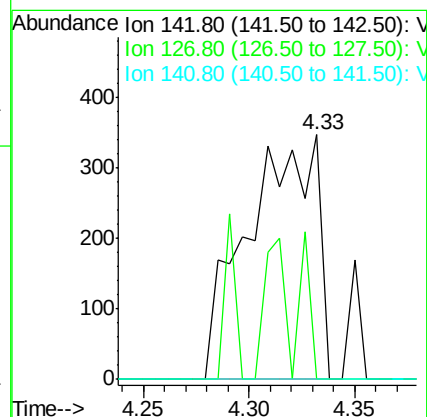
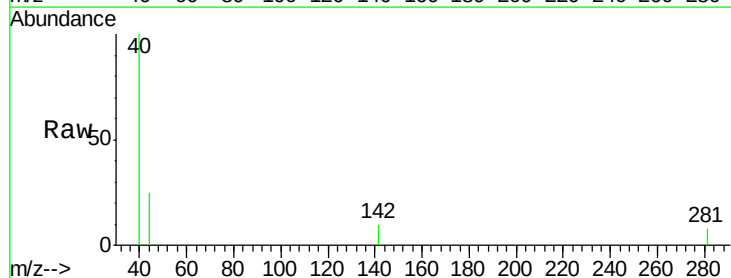
Tgt Ion: 142 Resp: 799

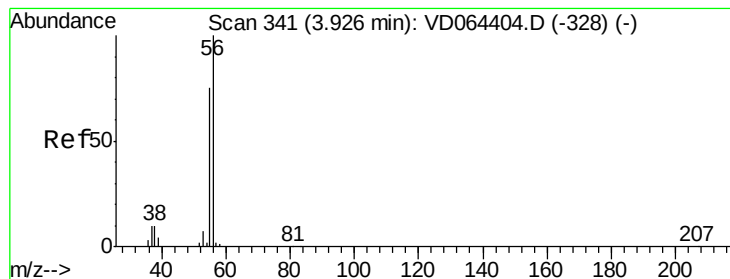
Ion Ratio Lower Upper

142 100

127 25.9 35.3 52.9#

141 0.0 11.6 17.4#





#13

Acrolein

Concen: 4.825 ug/l

RT: 3.85 min Scan# 328

Delta R.T. -0.08 min

Lab File: VD064542.D

Acq: 17 Dec 2019 13:44

Instrument :

MSVOA_D

ClientSampleId :

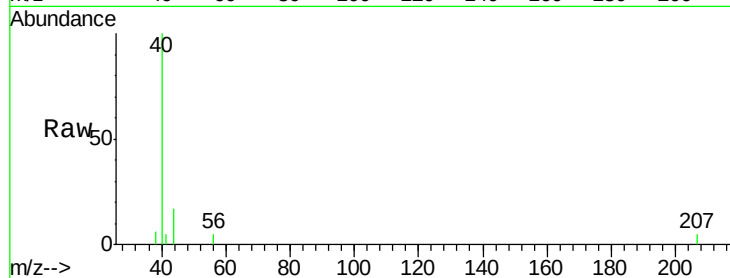
EP-10

Tot Ion: 56 Resp: 59

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.85

150

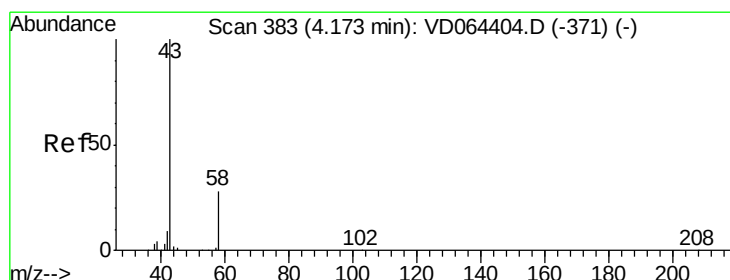
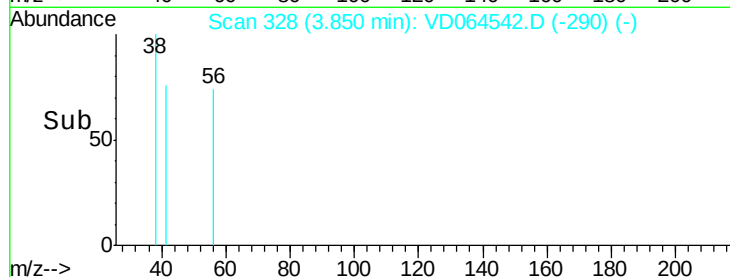
100

50

0

3.83 3.84 3.85 3.86 3.87

Time-->



#16

Acetone

Concen: 2.425 ug/l

RT: 4.17 min Scan# 382

Delta R.T. -0.01 min

Lab File: VD064542.D

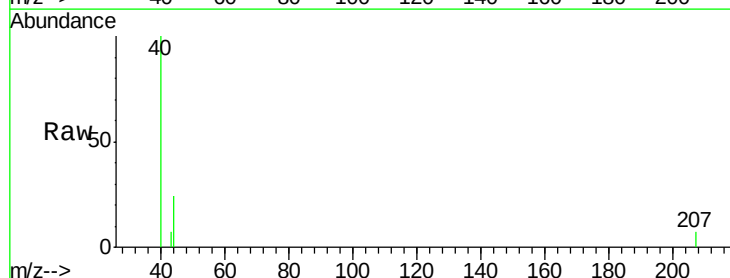
Acq: 17 Dec 2019 13:44

Tgt Ion: 43 Resp: 69

Ion Ratio Lower Upper

43 100

58 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.17

200

150

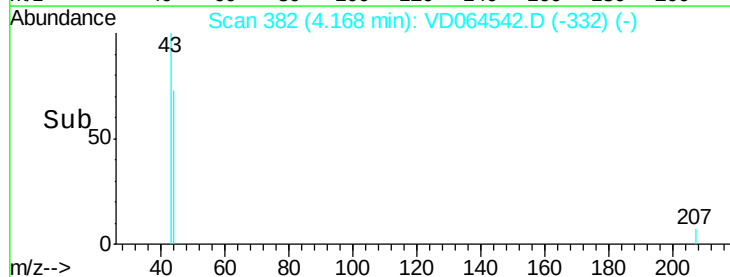
100

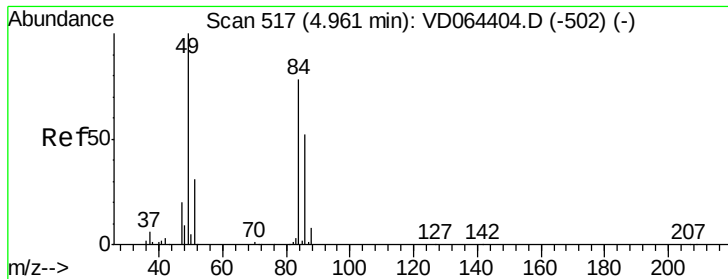
50

0

4.15 4.16 4.17 4.18

Time-->



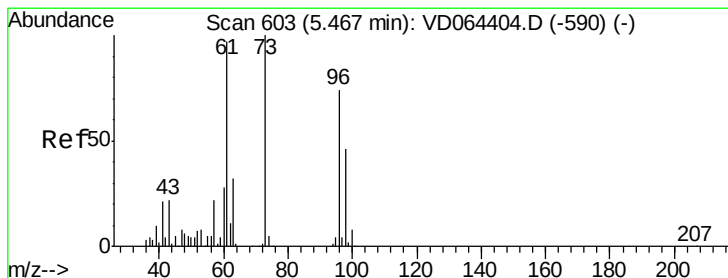
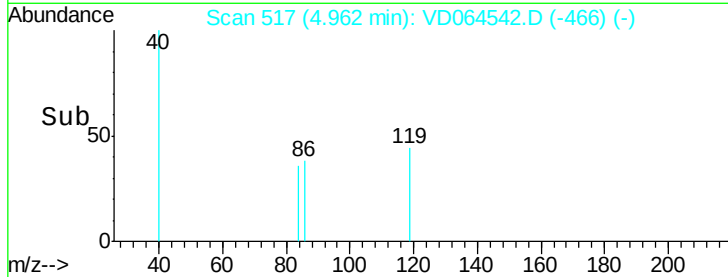
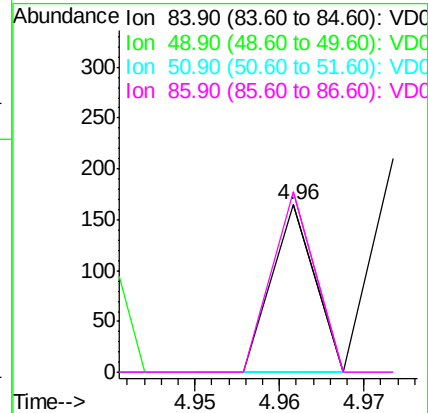
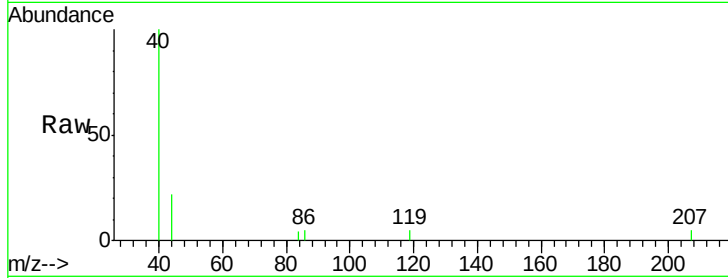


#20

Methylene Chloride
 Concen: Below Cal
 RT: 4.96 min Scan# 517
 Delta R.T. 0.00 min
 Lab File: VD064542.D
 Acq: 17 Dec 2019 13:44

Instrument :
 MSVOA_D
 ClientSampled :
 EP-10

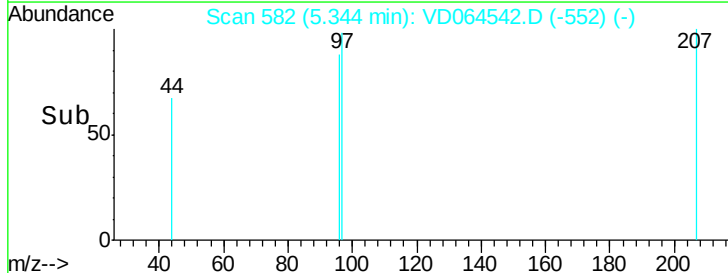
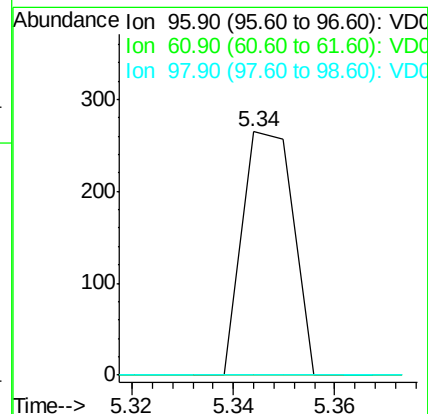
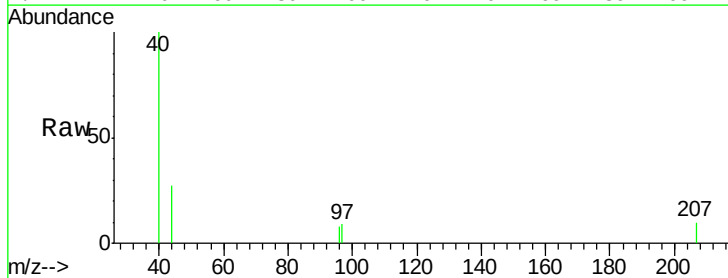
Tot Ion	Ratio	Lower	Upper
84	100		
49	0.0	102.6	153.8#
51	0.0	32.0	48.0#
86	107.3	53.4	80.0#

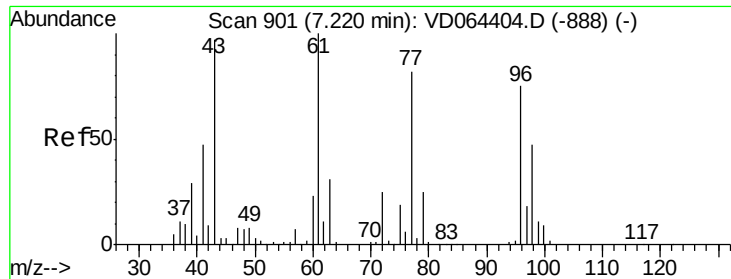


#21

trans-1,2-Dichloroethene
 Concen: 1.160 ug/l
 RT: 5.34 min Scan# 582
 Delta R.T. -0.12 min
 Lab File: VD064542.D
 Acq: 17 Dec 2019 13:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	0.0	105.8	158.6#
98	0.0	50.1	75.1#

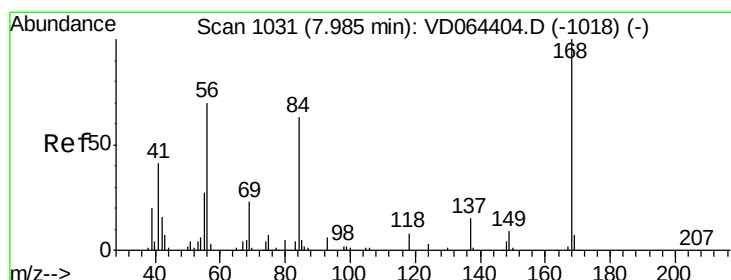
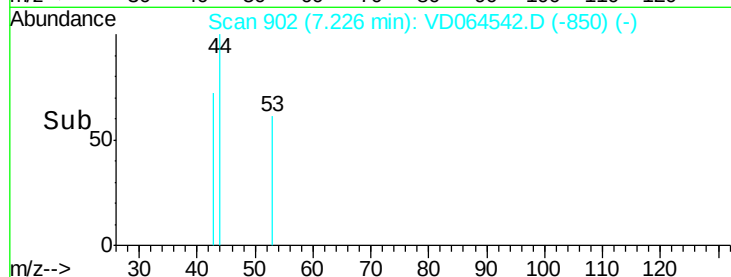
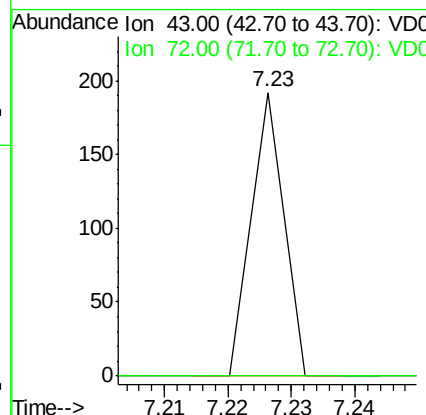
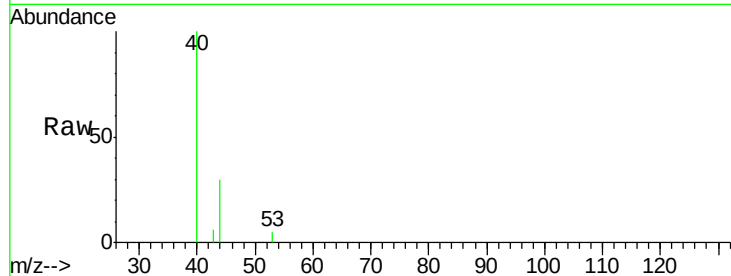




#25
2-Butanone
Concen: 1.690 ug/l
RT: 7.23 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD064542.D
Acq: 17 Dec 2019 13:44

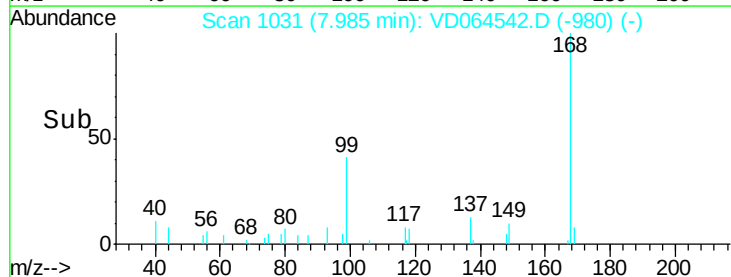
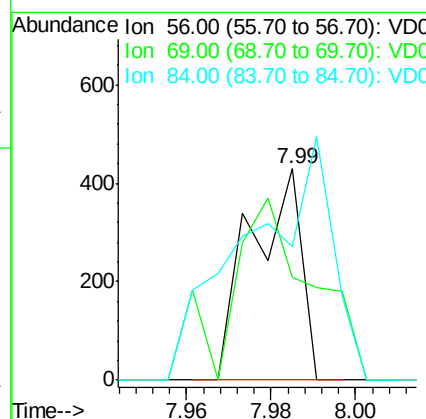
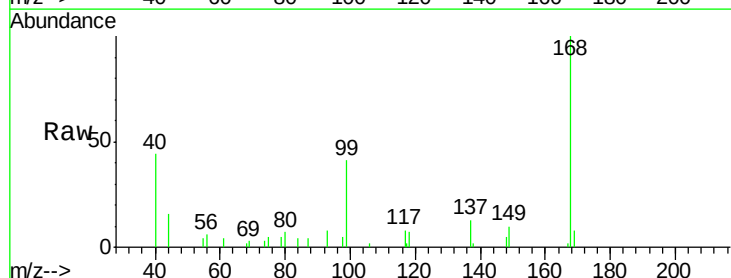
Instrument :
MSVOA_D
ClientSampleId :
EP-10

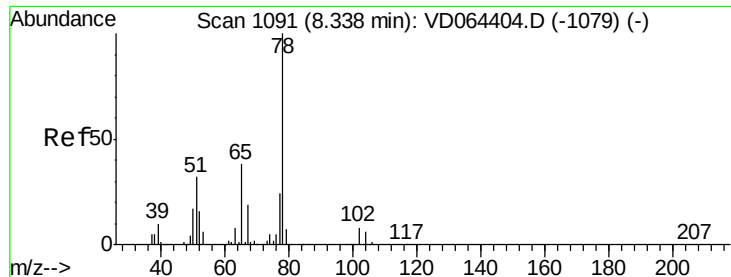
Tot Ion: 43 Resp: 68
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.4#



#31
Cyclohexane
Concen: Below Cal
RT: 7.99 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VD064542.D
Acq: 17 Dec 2019 13:44

Tgt Ion: 56 Resp: 356
Ion Ratio Lower Upper
56 100
69 6.5 26.2 39.4#
84 23.5 70.3 105.5#

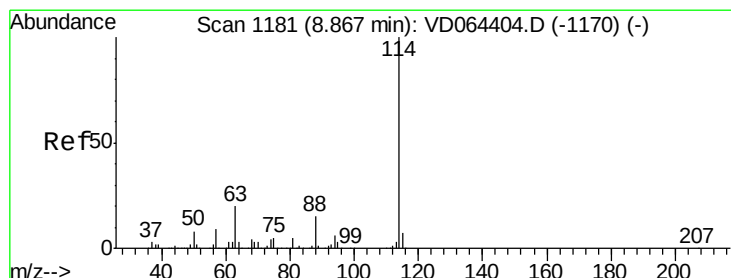
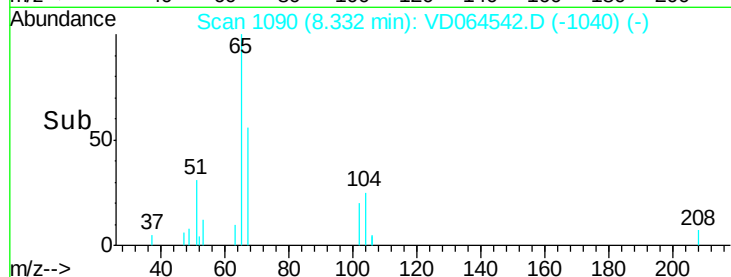
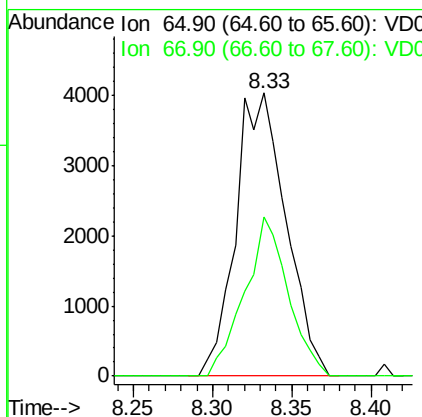
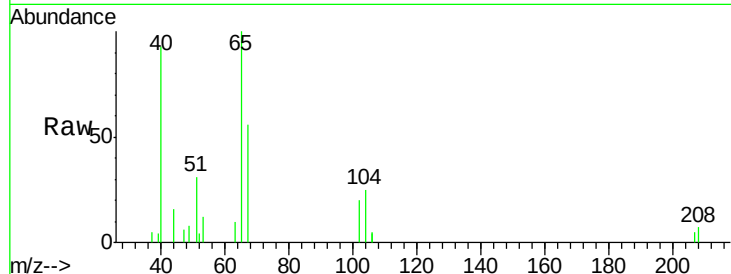




#33
 1,2-Dichloroethane-d4
 Concen: 62.994 ug/l
 RT: 8.33 min Scan# 1090
 Delta R.T. -0.01 min
 Lab File: VD064542.D
 Acq: 17 Dec 2019 13:44

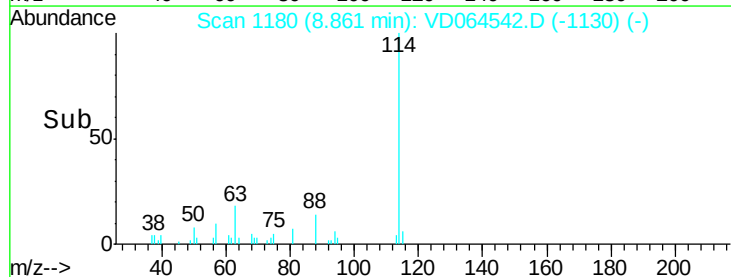
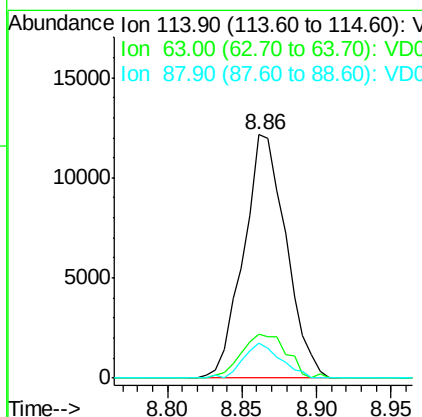
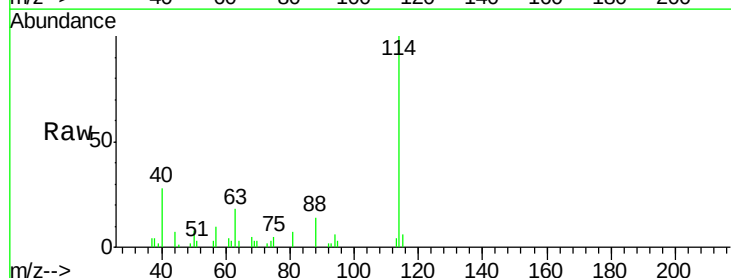
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 ClientSampleId :
 EP-10

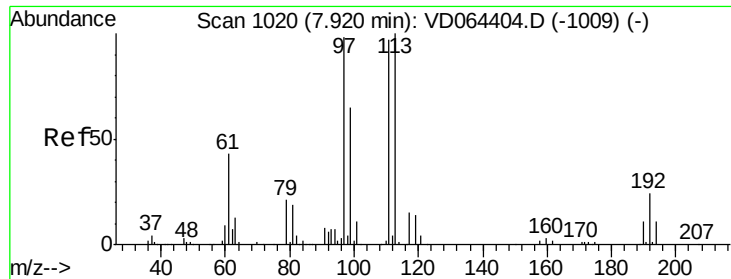
Tot Ion: 65 Resp: 8871
 Ion Ratio Lower Upper
 65 100
 67 48.6 0.0 102.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.86 min Scan# 1180
 Delta R.T. -0.01 min
 Lab File: VD064542.D
 Acq: 17 Dec 2019 13:44

Tgt Ion: 114 Resp: 24009
 Ion Ratio Lower Upper
 114 100
 63 18.2 0.0 40.0
 88 14.3 0.0 29.2

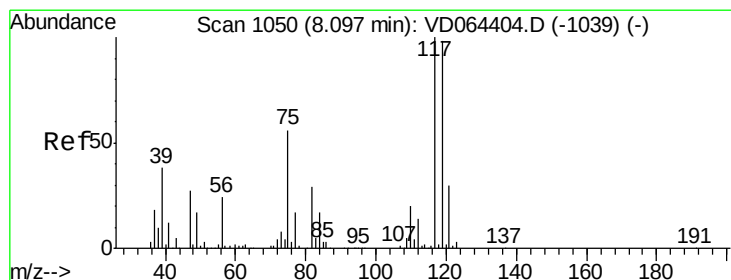
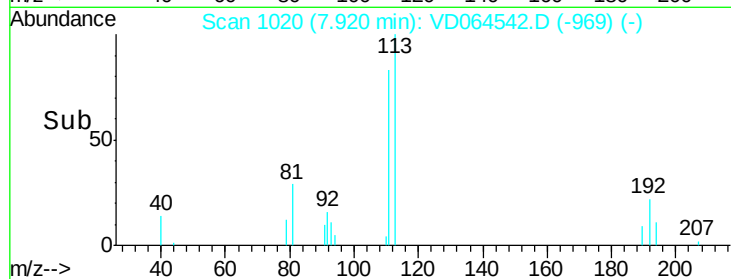
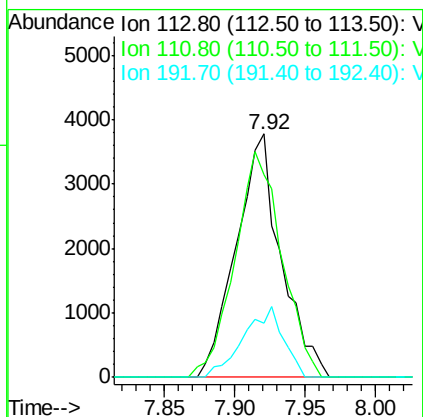
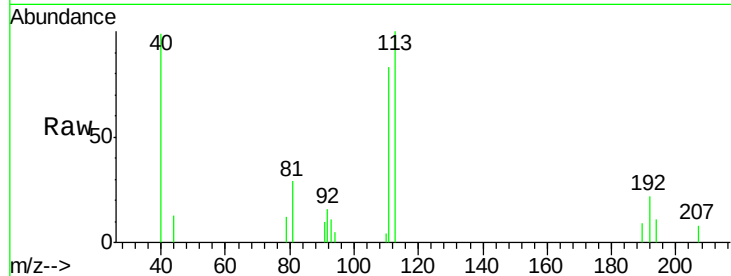




#35
 Dibromofluoromethane
 Concen: 55.431 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064542.D
 Acq: 17 Dec 2019 13:44

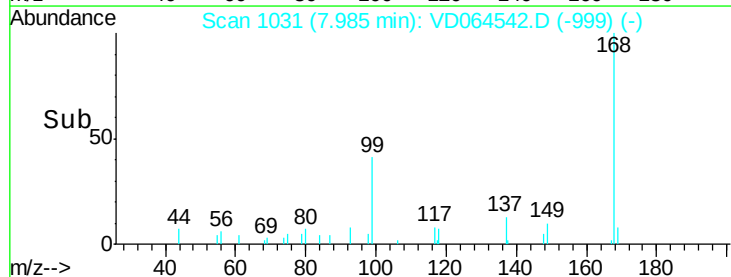
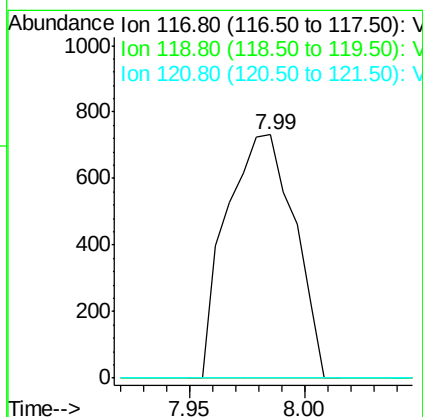
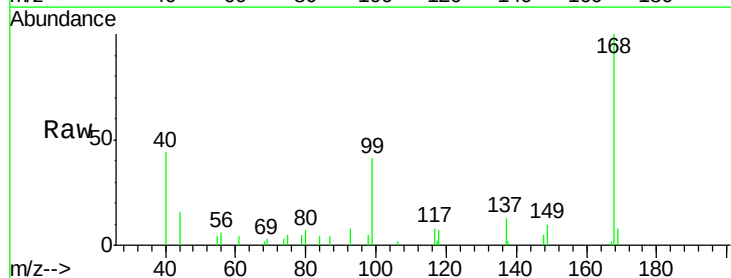
Instrument :
 MSVOA_D
 ClientSampleID :
 EP-10

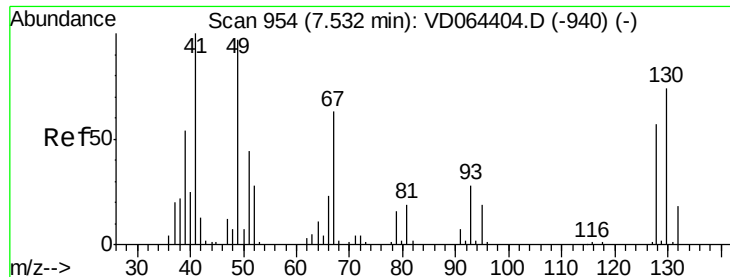
Tot Ion:113 Resp: 8385
 Ion Ratio Lower Upper
 113 100
 111 97.5 79.4 119.2
 192 25.9 18.6 28.0



#38
 Carbon Tetrachloride
 Concen: 6.246 ug/l
 RT: 7.99 min Scan# 1031
 Delta R.T. -0.11 min
 Lab File: VD064542.D
 Acq: 17 Dec 2019 13:44

Tgt Ion:117 Resp: 1497
 Ion Ratio Lower Upper
 117 100
 119 0.0 78.8 118.2#
 121 0.0 24.2 36.2#

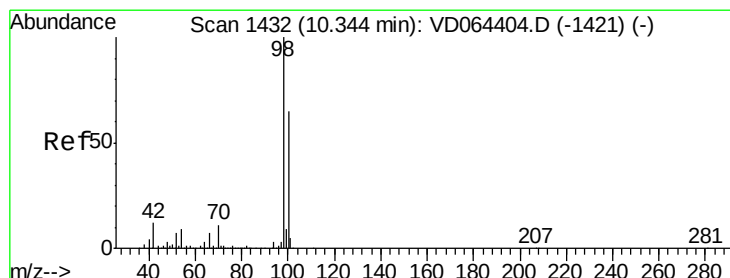
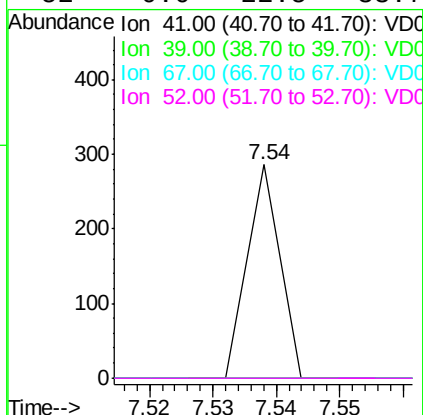
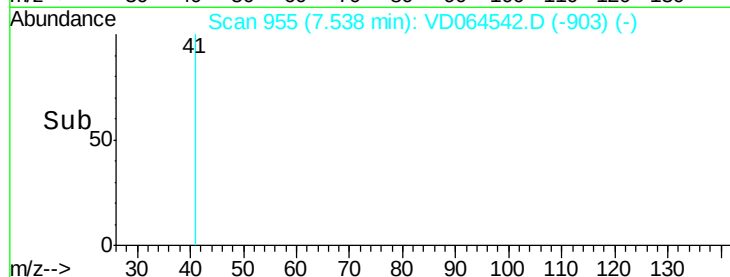
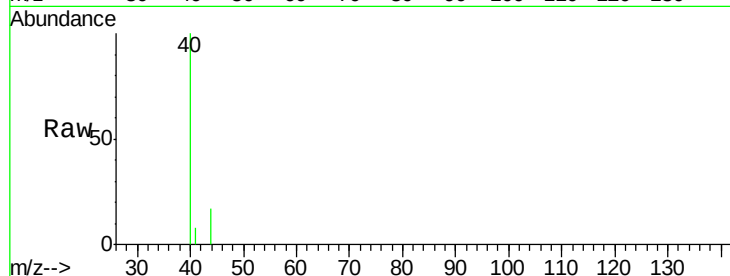




#41
Methacrylonitrile
Concen: 1.828 ug/l
RT: 7.54 min Scan# 955
Delta R.T. 0.01 min
Lab File: VD064542.D
Acq: 17 Dec 2019 13:44

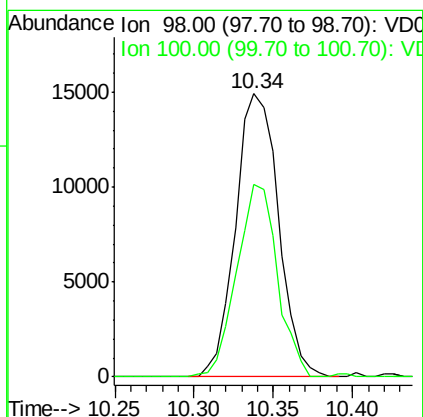
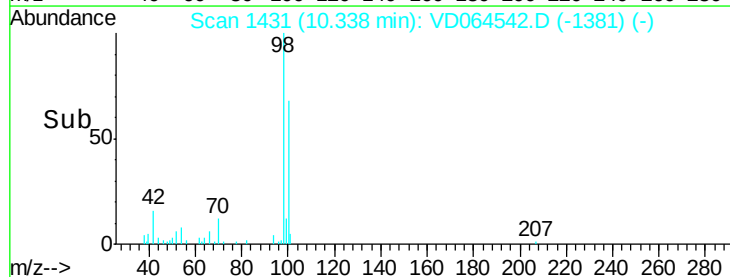
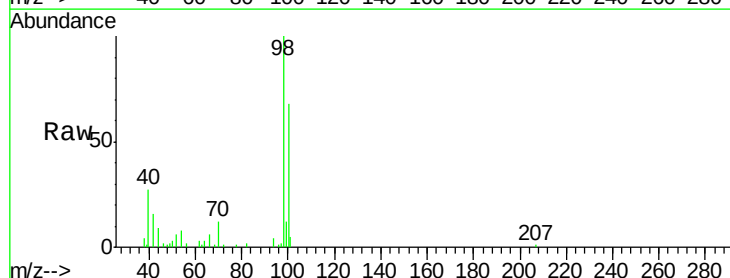
Instrument :
MSVOA_D
ClientSampled :
EP-10

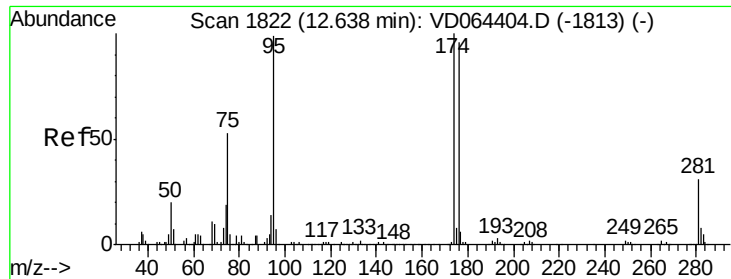
Tot Ion	Ratio	Lower	Upper
41	100		
39	0.0	44.6	67.0#
67	0.0	50.9	76.3#
52	0.0	22.5	33.7#



#50
Toluene-d8
Concen: 49.225 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064542.D
Acq: 17 Dec 2019 13:44

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.6	79.0

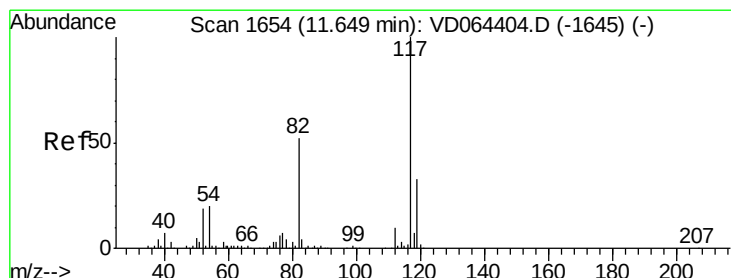
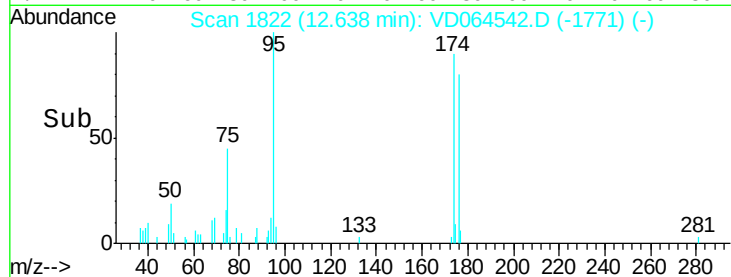
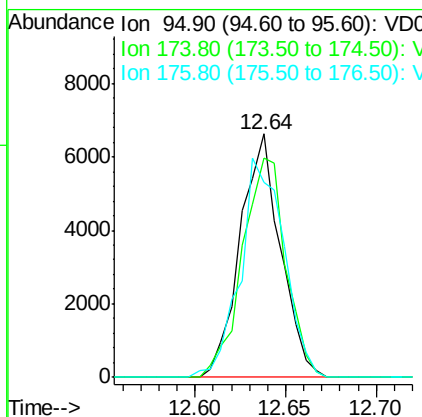
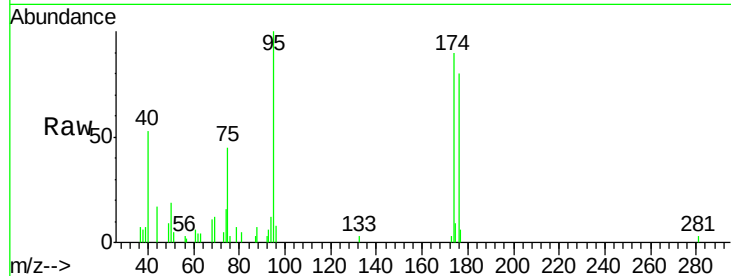




#62
4-Bromofluorobenzene
Concen: 56.028 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064542.D
Acq: 17 Dec 2019 13:44

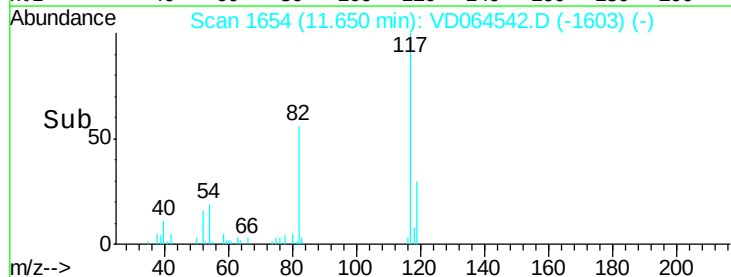
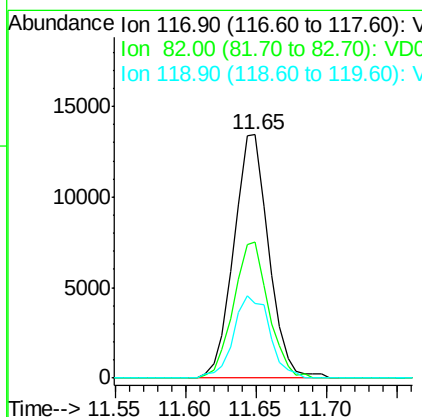
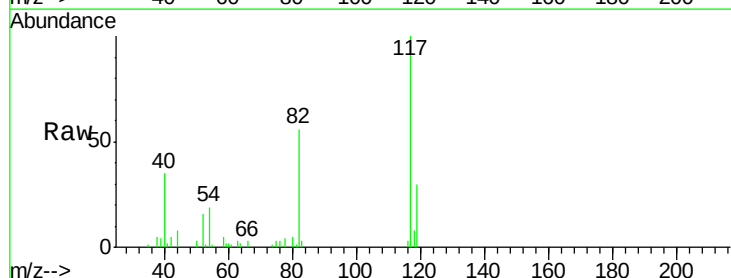
Instrument :
MSVOA_D
ClientSampled :
EP-10

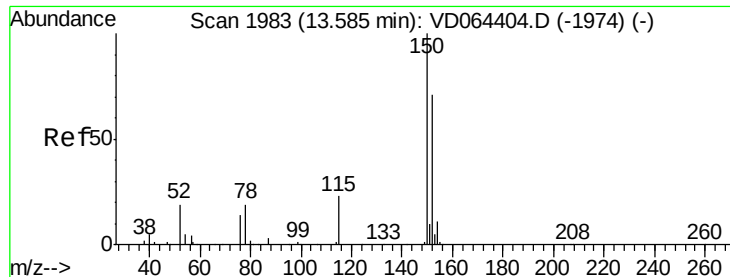
Tot Ion: 95 Resp: 10260
Ion Ratio Lower Upper
95 100
174 96.8 0.0 197.2
176 97.1 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064542.D
Acq: 17 Dec 2019 13:44

Tgt Ion: 117 Resp: 23270
Ion Ratio Lower Upper
117 100
82 55.8 41.4 62.2
119 30.4 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD064542.D

Acq: 17 Dec 2019 13:44

Instrument :

MSVOA_D

ClientSampled :

EP-10

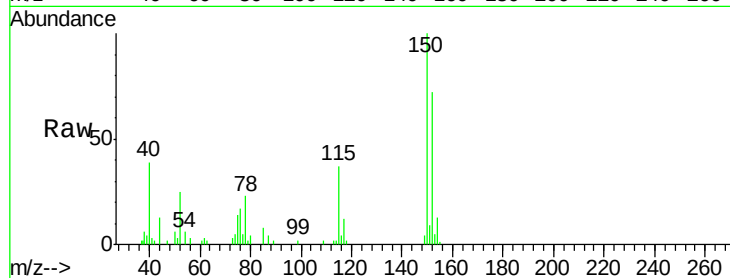
Tot Ion:152 Resp: 12462

Ion Ratio Lower Upper

152 100

115 57.3 26.7 80.1

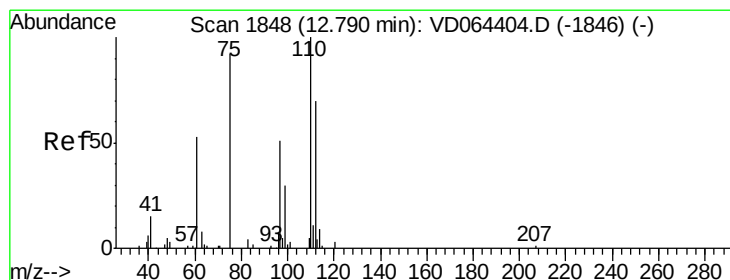
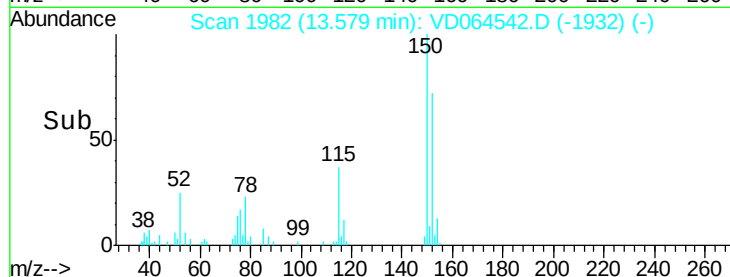
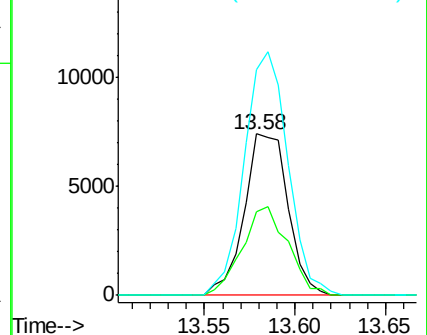
150 150.1 0.0 347.2



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: 51.969 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.16 min

Lab File: VD064542.D

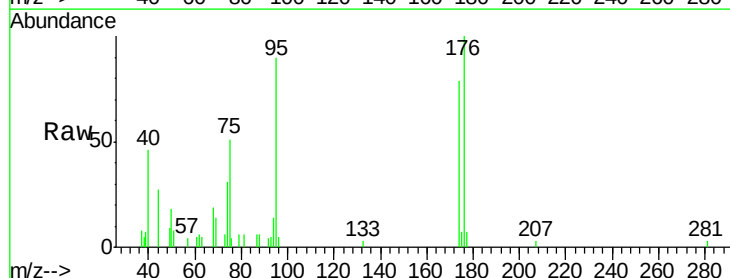
Acq: 17 Dec 2019 13:44

Tgt Ion: 75 Resp: 5326

Ion Ratio Lower Upper

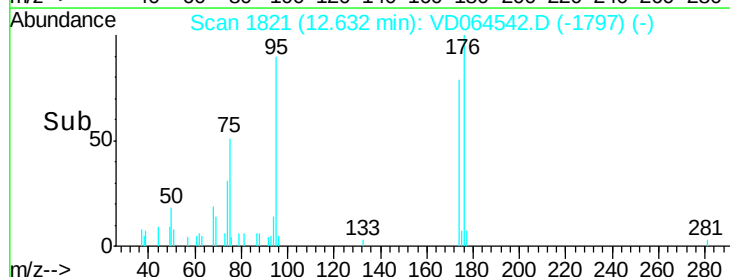
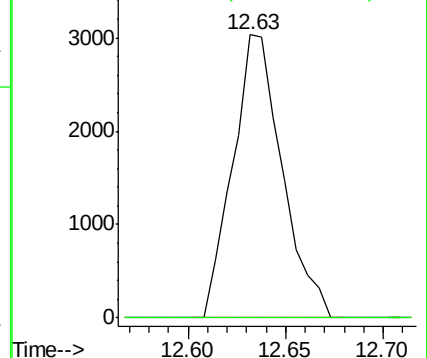
75 100

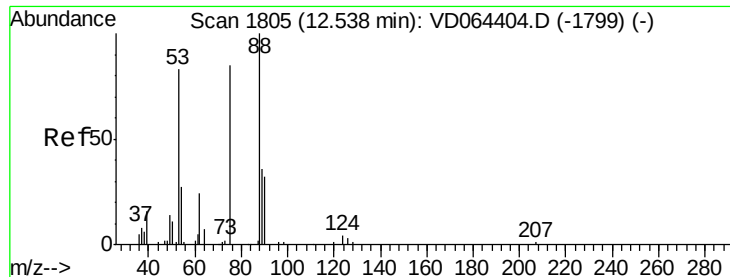
77 0.0 0.0 0.0



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: 113.320 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.09 min

Lab File: VD064542.D

Acq: 17 Dec 2019 13:44

Instrument :

MSVOA_D

ClientSampleId :

EP-10

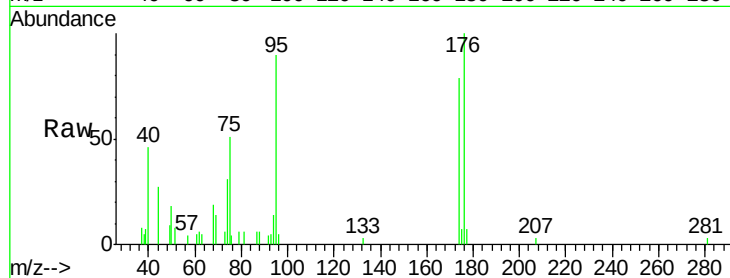
Tot Ion: 75 Resp: 5326

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

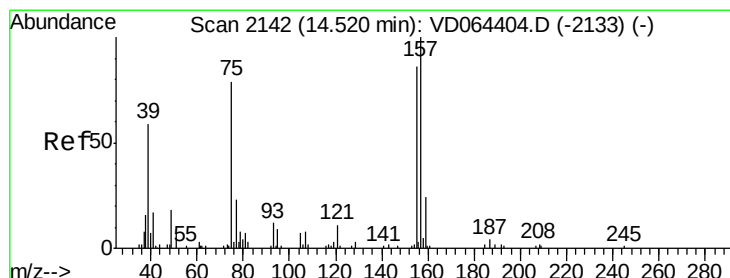
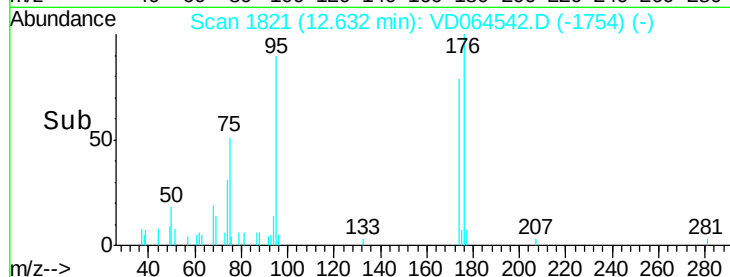
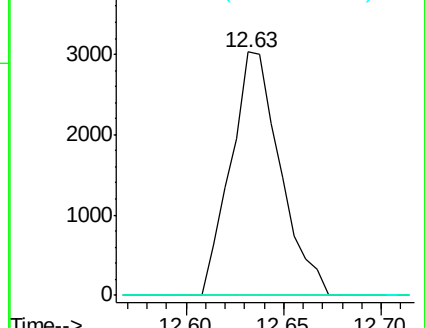
89 0.0 38.5 57.7#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.51 min Scan# 2140

Delta R.T. -0.01 min

Lab File: VD064542.D

Acq: 17 Dec 2019 13:44

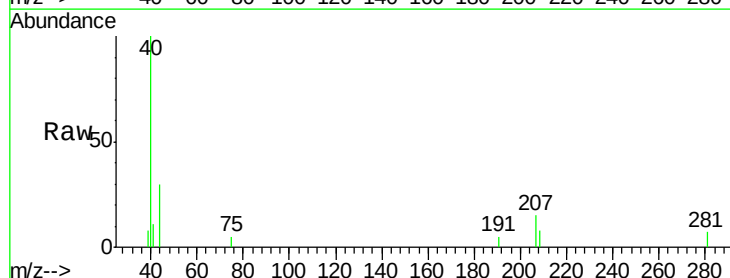
Tgt Ion: 75 Resp: 55

Ion Ratio Lower Upper

75 100

155 0.0 51.9 155.7#

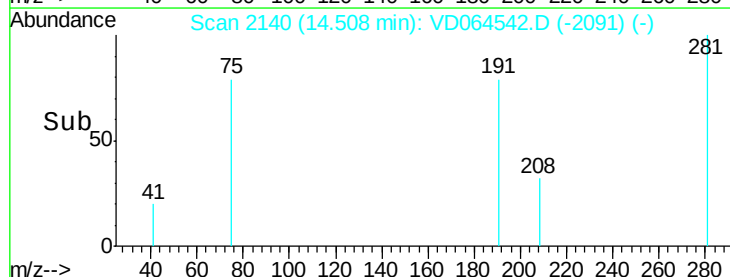
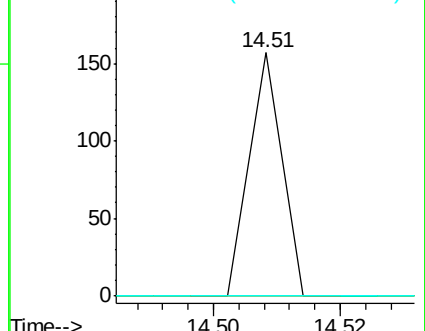
157 0.0 63.2 189.8#

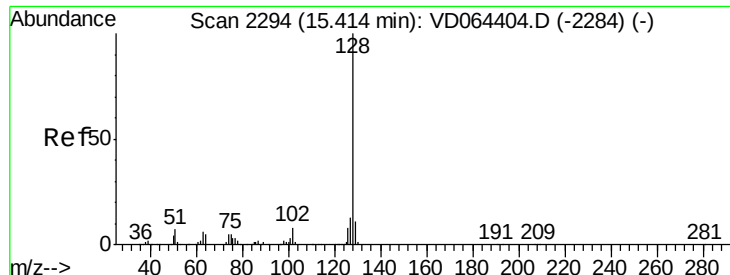


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V





#95

Naphthalene

Concen: 3.666 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. 0.00 min

Lab File: VD064542.D

Acq: 17 Dec 2019 13:44

Instrument :

MSVOA_D

ClientSampleId :

EP-10

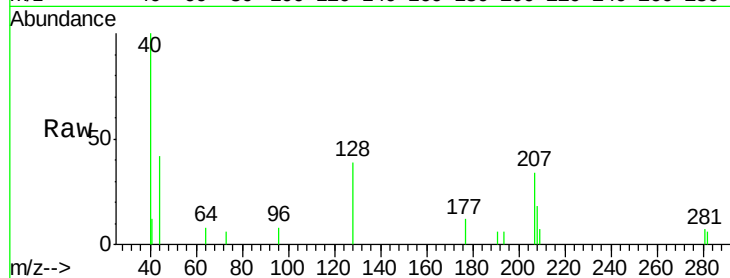
Tot Ion:128 Resp: 1682

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 4.1 8.8 13.2#



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

