

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD120519\
 Data File : VD064443.D
 Acq On : 05 Dec 2019 18:28
 Operator : VA/SY
 Sample : K6177-02
 Misc : 3.56G/5.00ml/MSVOA D/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-2

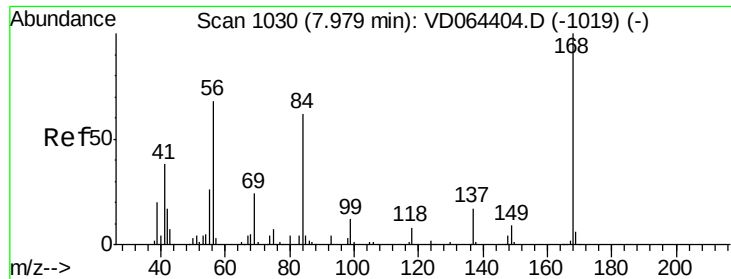
Quant Time: Dec 06 05:56:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 29 07:18:03 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	786544	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	1165218	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	1082144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	536258	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.34	65	352148	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
35) Dibromofluoromethane	7.92	113	354258	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
50) Toluene-d8	10.34	98	1371750	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
62) 4-Bromofluorobenzene	12.64	95	478177	53.80	ug/l	0.00
Spiked Amount			Recovery	=	107.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.26	59	1748	3.857	ug/l #	100
15) Acrylonitrile	5.47	53	1947	1.242	ug/l #	45
16) Acetone	4.17	43	19759	13.734	ug/l	97
20) Methylene Chloride	4.98	84	2112	Below Cal	#	61
36) 1,1-Dichloropropene	7.98	75	52982	4.807	ug/l #	50
38) Carbon Tetrachloride	7.98	117	72654	6.246	ug/l #	13
39) Methylcyclohexane	9.35	83	93974	6.874	ug/l	100
51) 4-Methyl-2-Pentanone	10.34	43	8861	1.948	ug/l #	1
55) 1,1,2-Trichloroethane	10.77	97	8642	1.527	ug/l #	16
59) 2-Hexanone	10.95	43	7221	2.287	ug/l #	30
71) Bromoform	12.63	173	5684	1.137	ug/l #	1
76) 1,2,3-Trichloropropane	12.64	75	251038	56.925	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	251038	124.125	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.51	75	58	Below Cal	#	1

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD064443.D

Acq: 05 Dec 2019 18:28

Instrument :

MSVOA_D

ClientSampleId :

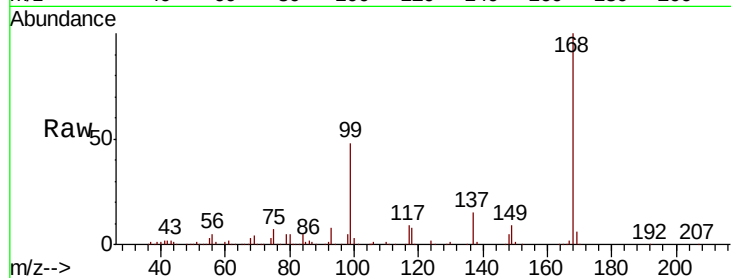
EP-2

Tot Ion:168 Resp: 786544

Ion Ratio Lower Upper

168 100

99 48.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

400000

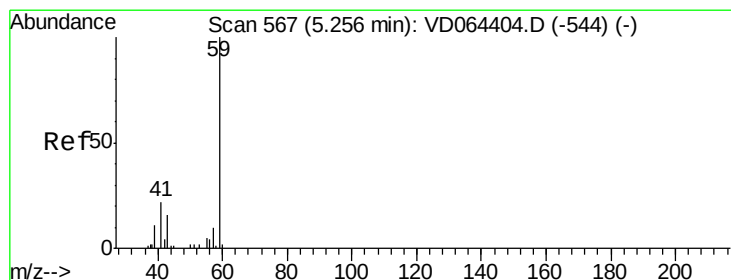
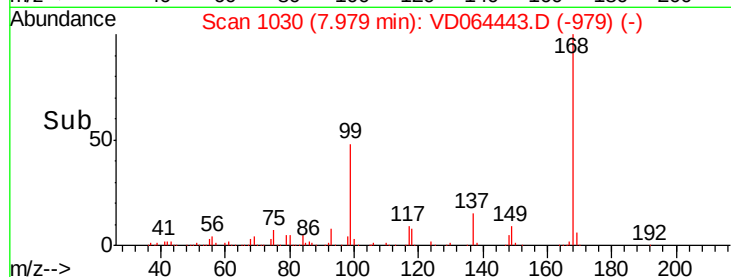
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 3.857 ug/l

RT: 5.26 min Scan# 567

Delta R.T. -0.00 min

Lab File: VD064443.D

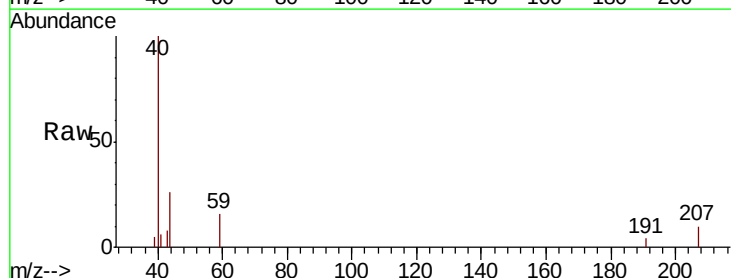
Acq: 05 Dec 2019 18:28

Tgt Ion: 59 Resp: 1748

Ion Ratio Lower Upper

59 100

57 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

1000

800

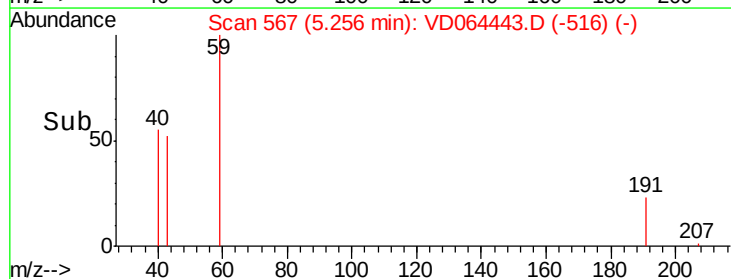
600

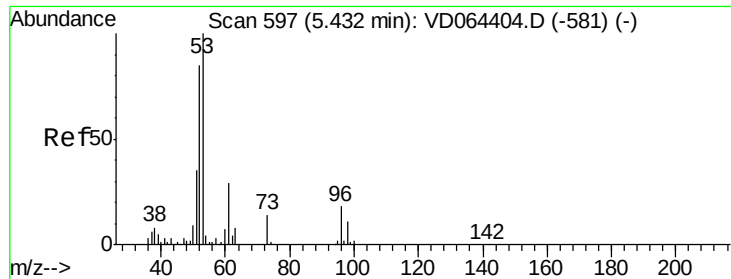
400

200

0

Time-->





#15

Acrylonitrile

Concen: 1.242 ug/l

RT: 5.47 min Scan# 604

Delta R.T. 0.04 min

Lab File: VD064443.D

Acq: 05 Dec 2019 18:28

Instrument :

MSVOA_D

ClientSampleID :

EP-2

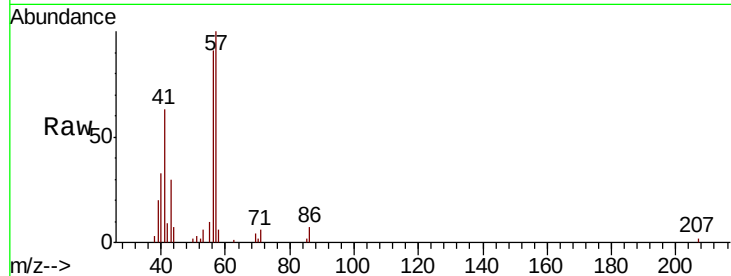
Tot Ion: 53 Resp: 1947

Ion Ratio Lower Upper

53 100

52 21.9 67.9 101.9#

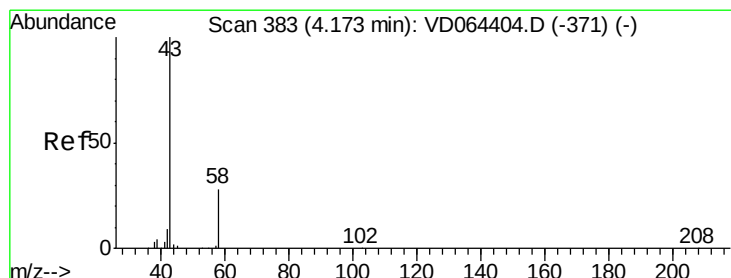
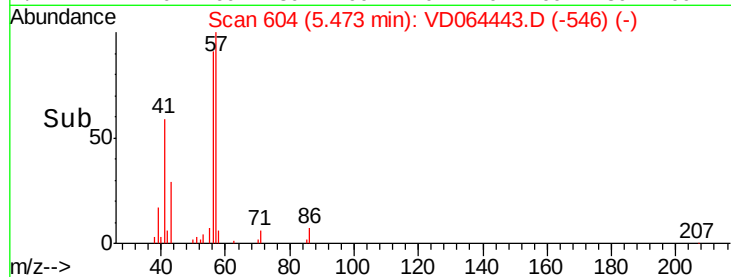
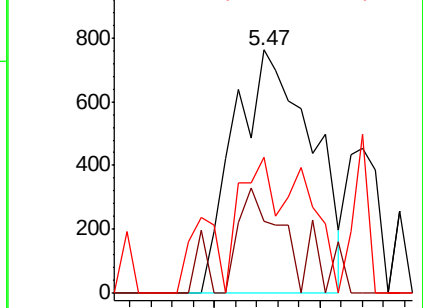
51 24.6 30.6 45.8#



Abundance Ion 53.00 (52.70 to 53.70): VDC

Ion 52.00 (51.70 to 52.70): VDC

Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 13.734 ug/l

RT: 4.17 min Scan# 383

Delta R.T. -0.00 min

Lab File: VD064443.D

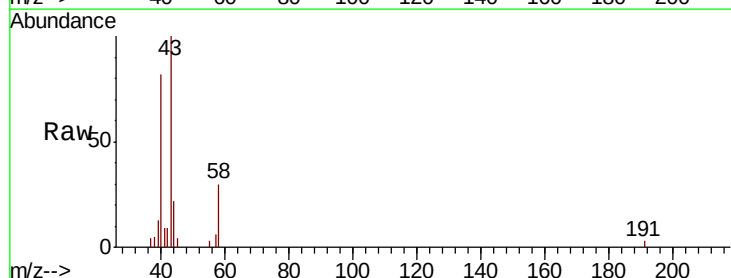
Acq: 05 Dec 2019 18:28

Tgt Ion: 43 Resp: 19759

Ion Ratio Lower Upper

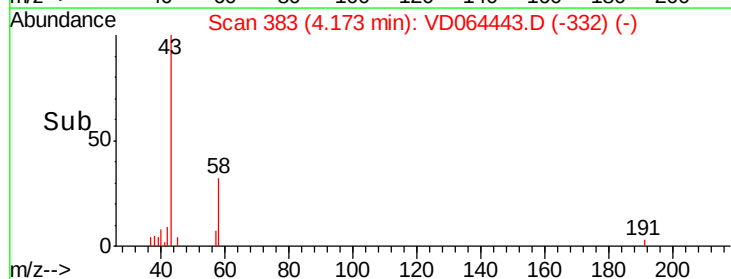
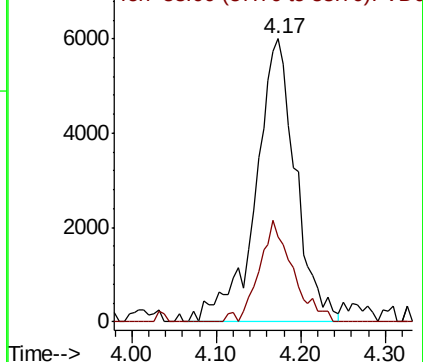
43 100

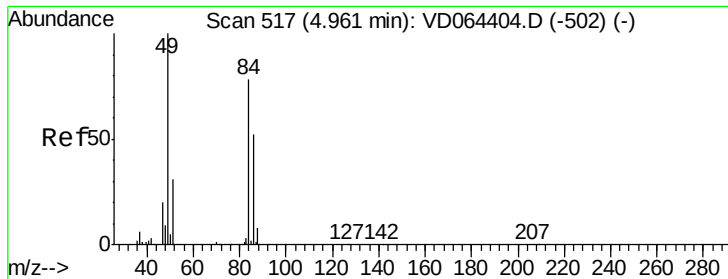
58 29.8 22.6 33.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

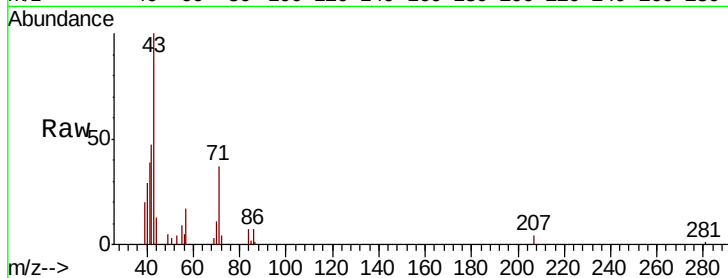




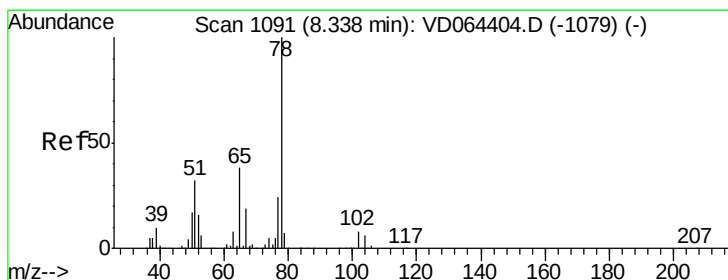
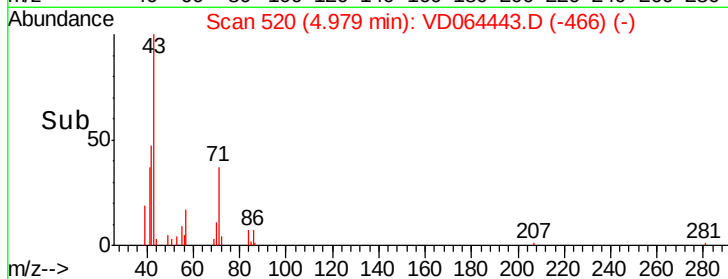
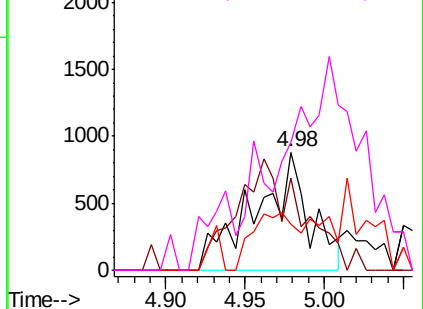
#20
Methylene Chloride
Concen: Below Cal
RT: 4.98 min Scan# 520
Delta R.T. 0.02 min
Lab File: VD064443.D
Acq: 05 Dec 2019 18:28

Instrument :
MSVOA_D
ClientSampled :
EP-2

Tot Ion: 84 Resp: 2112
Ion Ratio Lower Upper
84 100
49 77.5 102.6 153.8#
51 39.4 32.0 48.0
86 107.7 53.4 80.0#

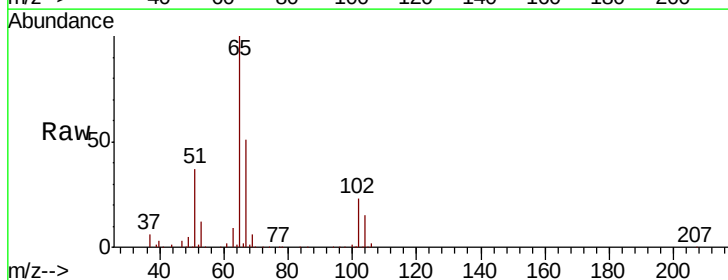


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

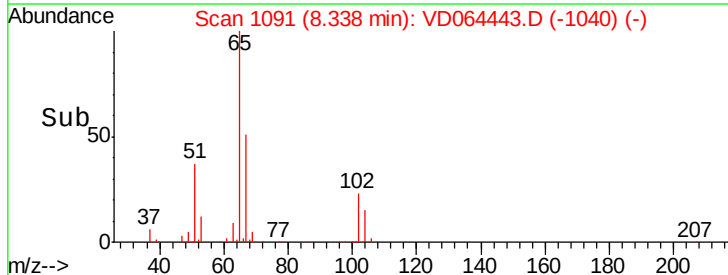
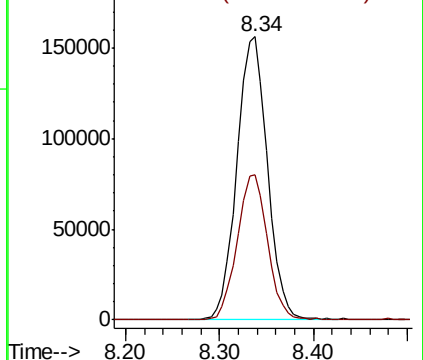


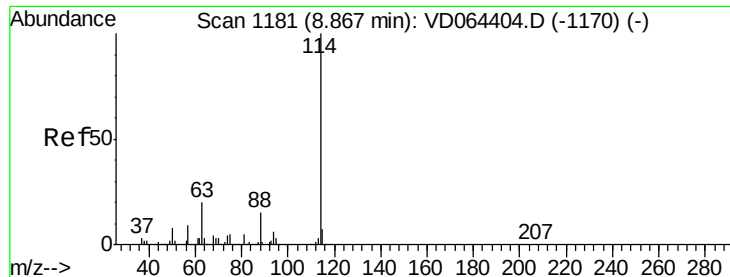
#33
1,2-Dichloroethane-d4
Concen: 49.463 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. 0.00 min
Lab File: VD064443.D
Acq: 05 Dec 2019 18:28

Tgt Ion: 65 Resp: 352148
Ion Ratio Lower Upper
65 100
67 51.0 0.0 102.0



Abundance Ion 64.90 (64.60 to 65.60): VDC
Ion 66.90 (66.60 to 67.60): VDC

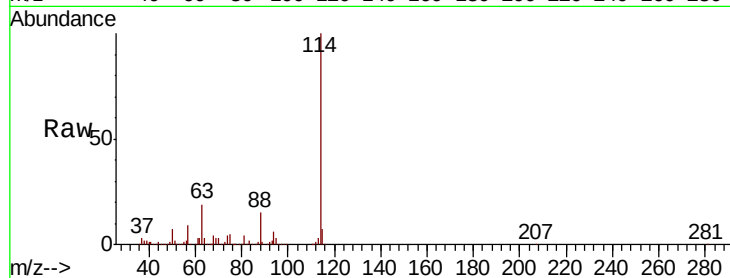




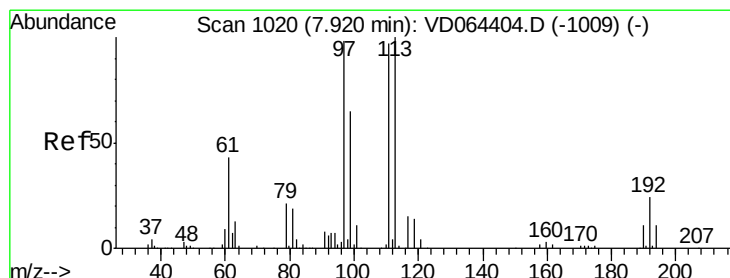
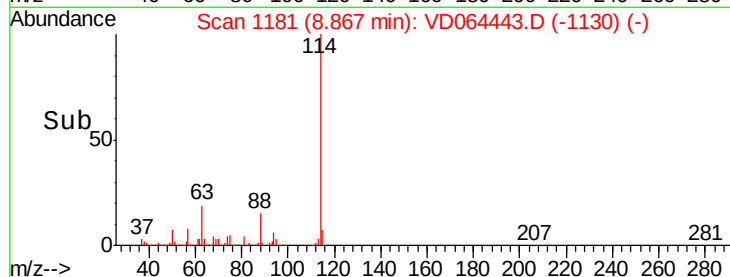
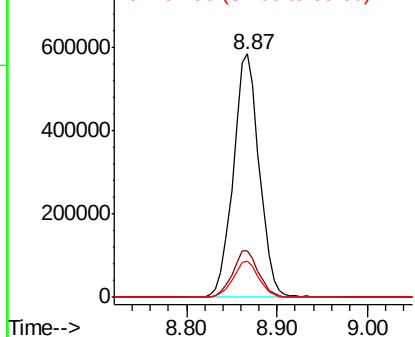
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064443.D
 Acq: 05 Dec 2019 18:28

Instrument :
 MSVOA_D
 ClientSampleId :
 EP-2

Tot Ion:114 Resp: 1165218
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 40.0
 88 15.1 0.0 29.2

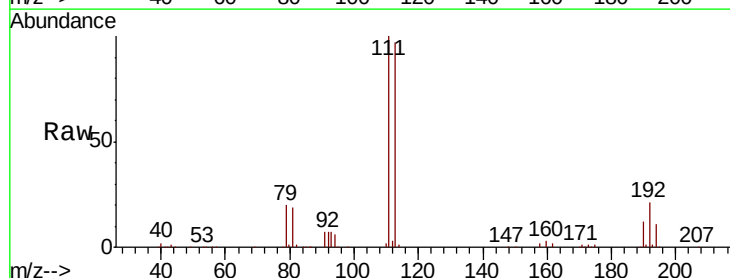


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

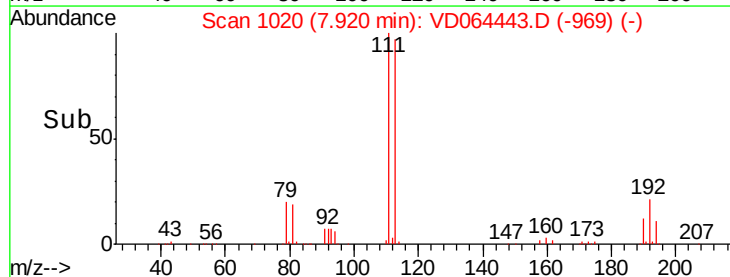
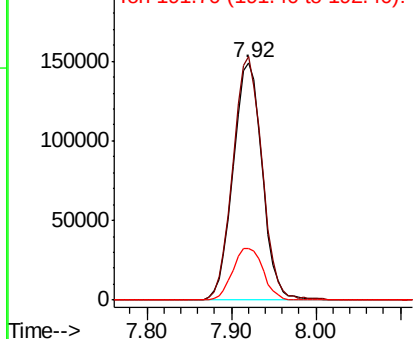


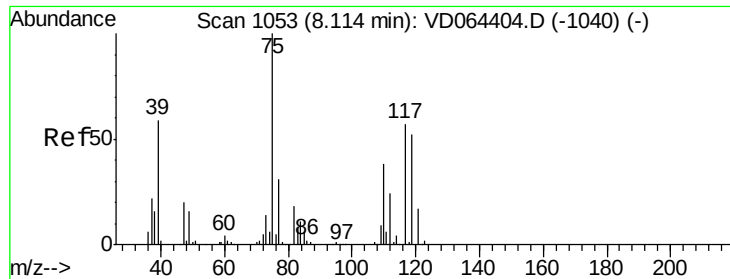
#35
 Dibromofluoromethane
 Concen: 48.254 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. -0.00 min
 Lab File: VD064443.D
 Acq: 05 Dec 2019 18:28

Tgt Ion:113 Resp: 354258
 Ion Ratio Lower Upper
 113 100
 111 103.0 79.4 119.2
 192 23.0 18.6 28.0



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: 4.807 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD064443.D

Acq: 05 Dec 2019 18:28

Instrument :
MSVOA_D
ClientSampleId :
EP-2

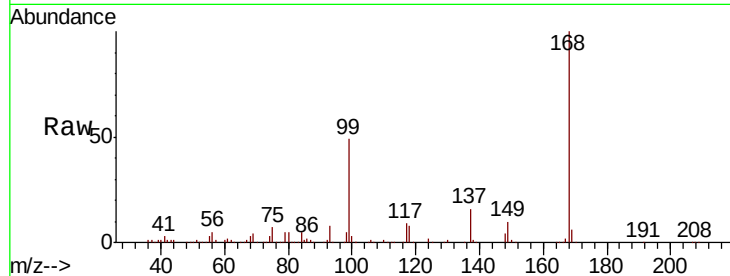
Tot Ion: 75 Resp: 52982

Ion Ratio Lower Upper

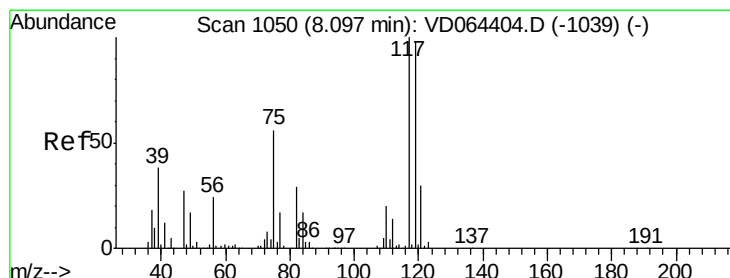
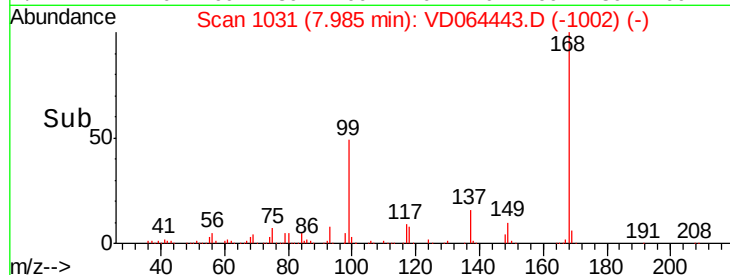
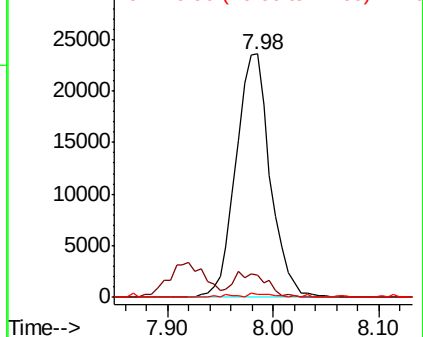
75 100

110 10.1 18.6 55.8#

77 1.1 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VDC
Ion 109.90 (109.60 to 110.60): VDC
Ion 76.90 (76.60 to 77.60): VDC



#38

Carbon Tetrachloride

Concen: 6.246 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064443.D

Acq: 05 Dec 2019 18:28

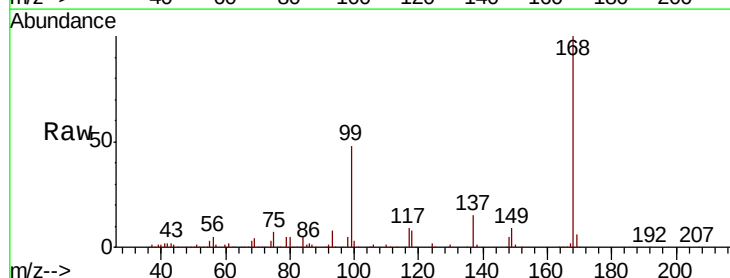
Tgt Ion: 117 Resp: 72654

Ion Ratio Lower Upper

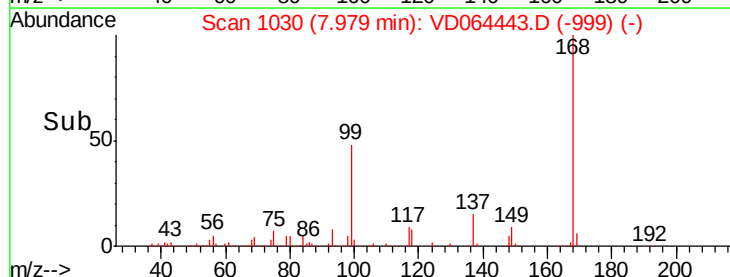
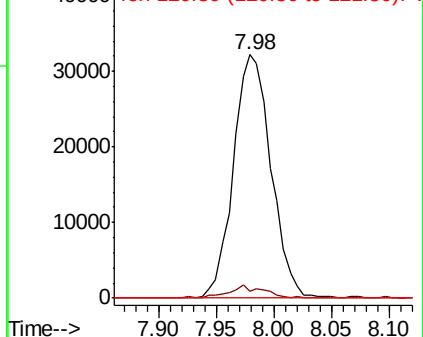
117 100

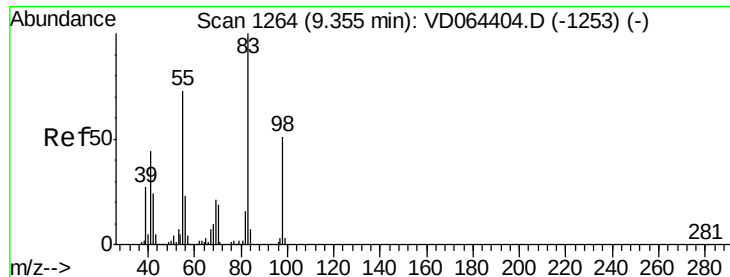
119 3.0 78.8 118.2#

121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): VDC
Ion 118.80 (118.50 to 119.50): VDC
Ion 120.80 (120.50 to 121.50): VDC

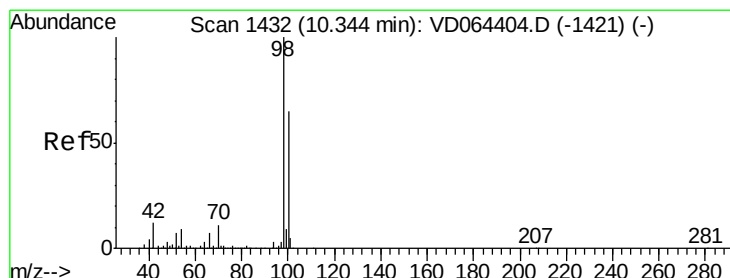
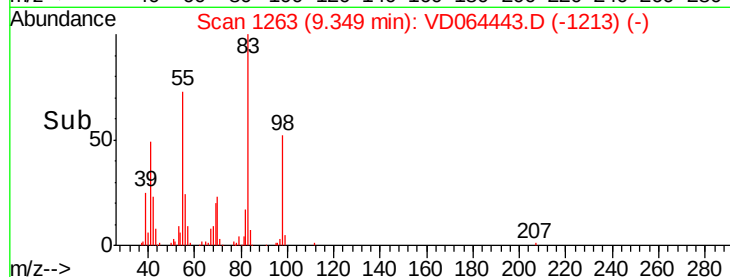
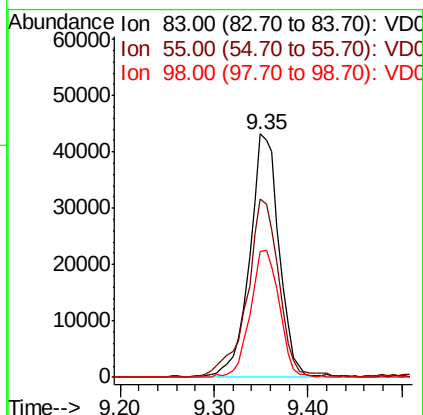
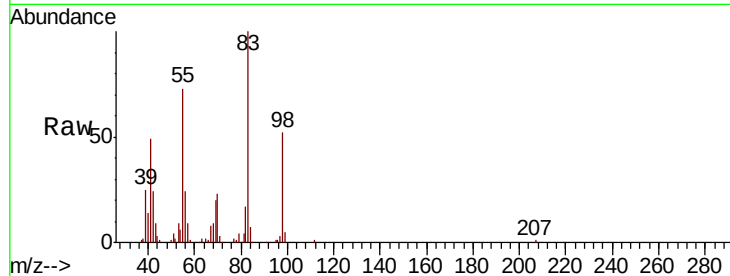




#39
Methylvlcyclohexane
Concen: 6.874 ug/l
RT: 9.35 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VD064443.D
Acq: 05 Dec 2019 18:28

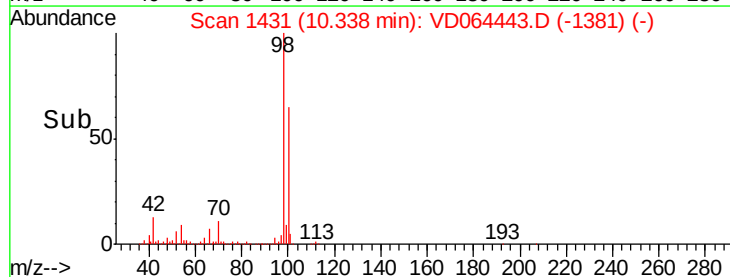
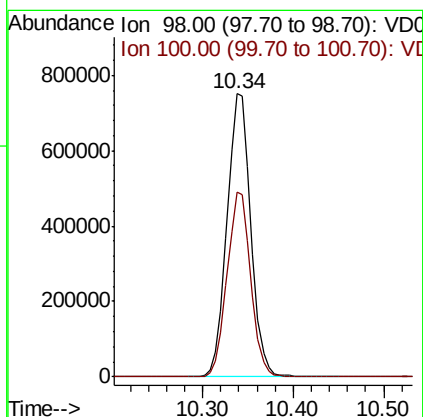
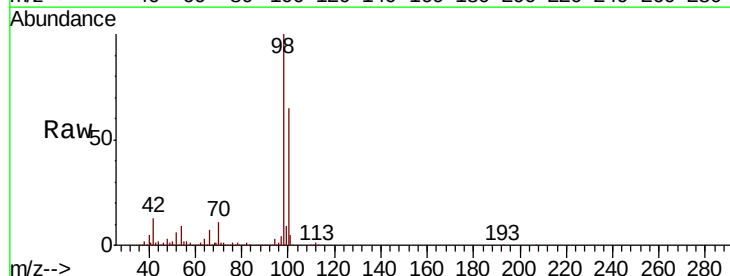
Instrument :
MSVOA_D
ClientSampleId :
EP-2

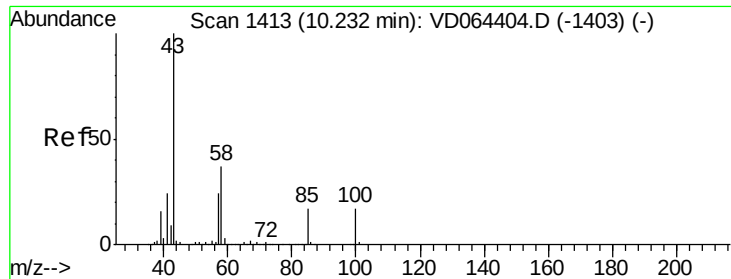
Tot Ion: 83 Resp: 93974
Ion Ratio Lower Upper
83 100
55 73.3 58.6 87.8
98 51.5 40.9 61.3



#50
Toluene-d8
Concen: 49.603 ug/l
RT: 10.34 min Scan# 1431
Delta R.T. -0.01 min
Lab File: VD064443.D
Acq: 05 Dec 2019 18:28

Tgt Ion: 98 Resp: 1371750
Ion Ratio Lower Upper
98 100
100 64.9 52.6 79.0





#51

4-Methyl-2-Pentanone

Concen: 1.948 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.11 min

Lab File: VD064443.D

Acq: 05 Dec 2019 18:28

Instrument :

MSVOA_D

ClientSampleId :

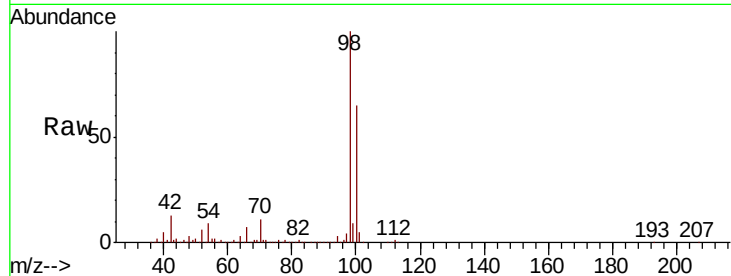
EP-2

Tot Ion: 43 Resp: 8861

Ion Ratio Lower Upper

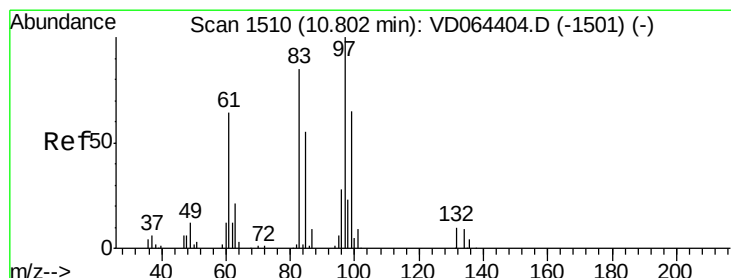
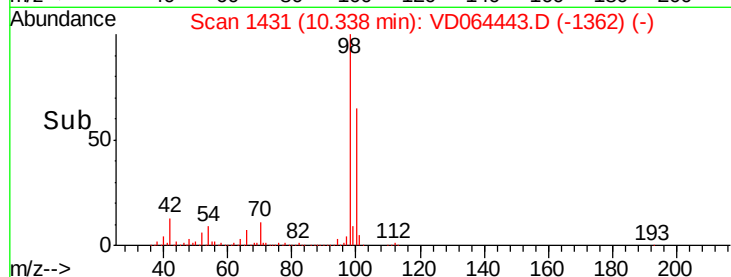
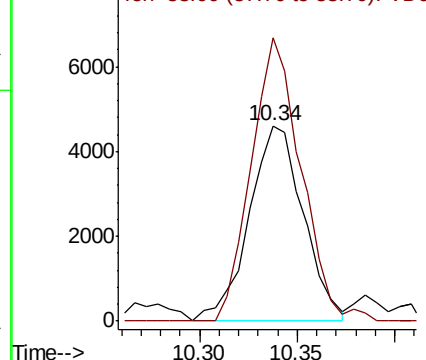
43 100

58 133.3 30.6 46.0#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#55

1,1,2-Trichloroethane

Concen: 1.527 ug/l

RT: 10.77 min Scan# 1505

Delta R.T. -0.03 min

Lab File: VD064443.D

Acq: 05 Dec 2019 18:28

Tgt Ion: 97 Resp: 8642

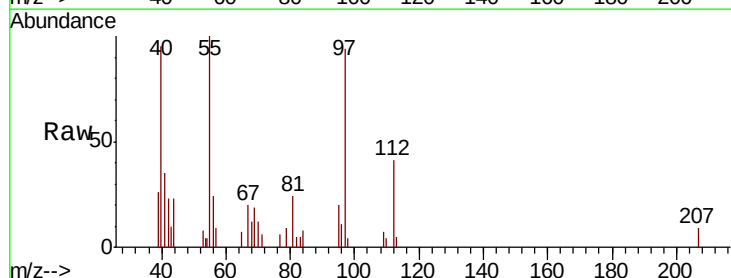
Ion Ratio Lower Upper

97 100

83 1.3 67.8 101.8#

85 0.0 43.7 65.5#

99 0.0 51.7 77.5#

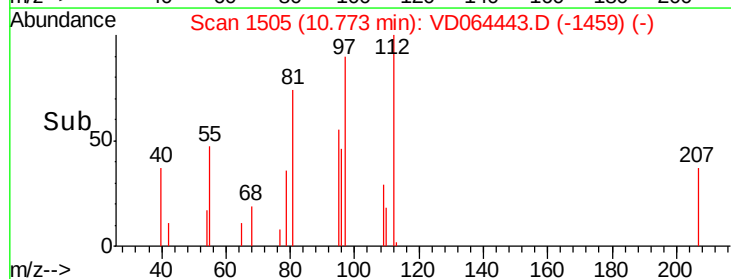
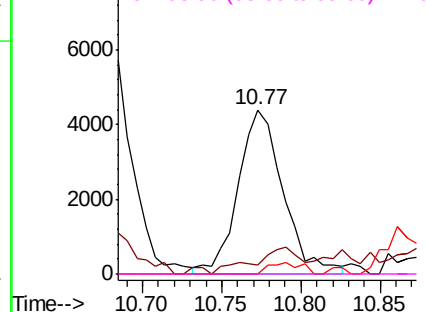


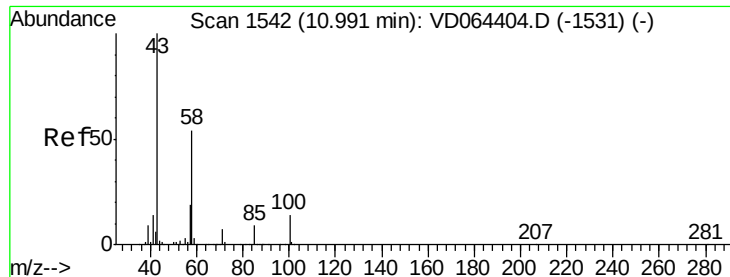
Abundance Ion 96.90 (96.60 to 97.60): VDC

Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC

Ion 98.90 (98.60 to 99.60): VDC

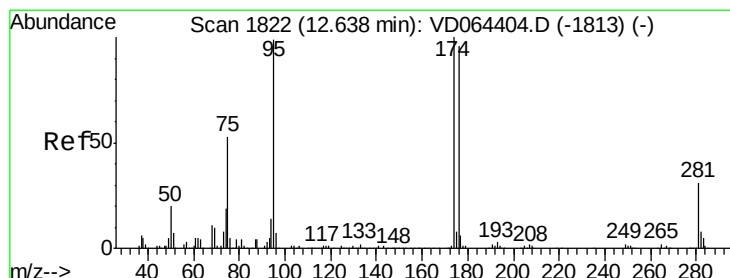
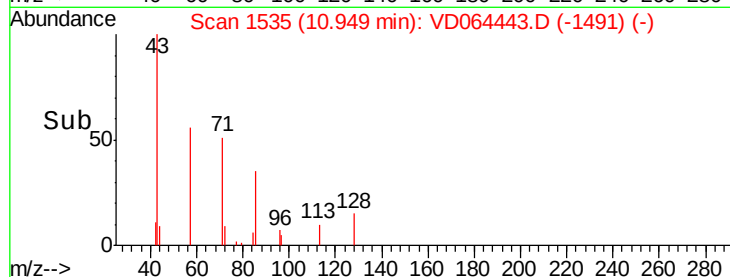
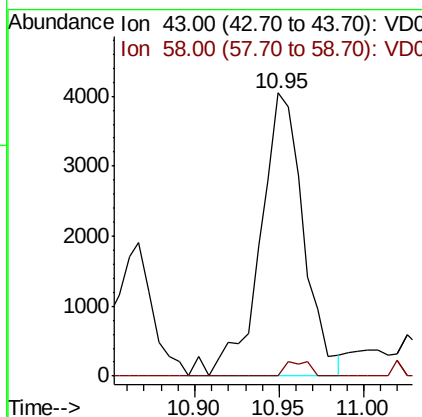
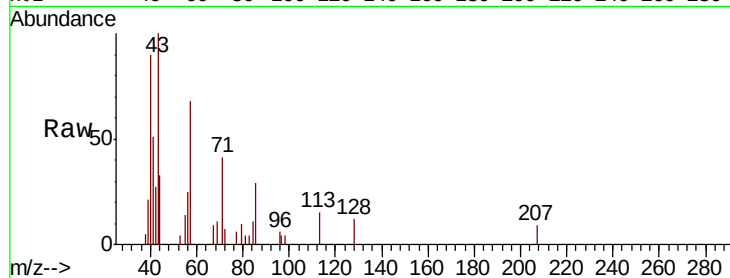




#59
2-Hexanone
Concen: 2.287 ug/l
RT: 10.95 min Scan# 1535
Delta R.T. -0.04 min
Lab File: VD064443.D
Acq: 05 Dec 2019 18:28

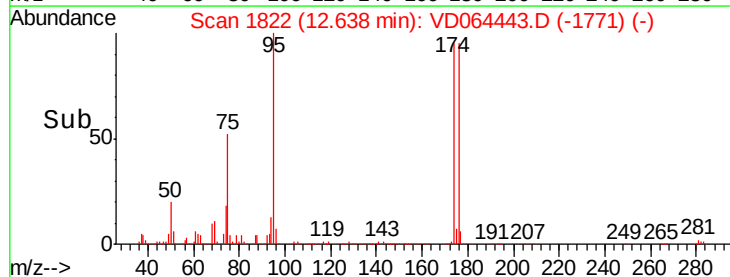
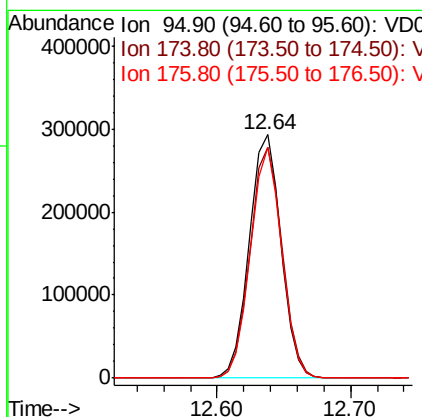
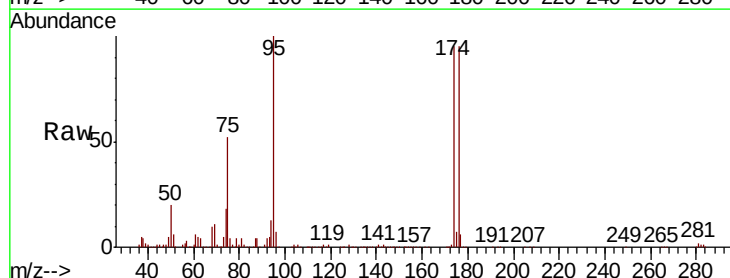
Instrument :
MSVOA_D
ClientSampleId :
EP-2

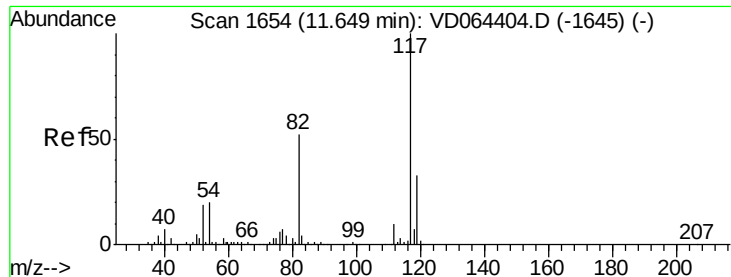
Tot Ion: 43 Resp: 7221
Ion Ratio Lower Upper
43 100
58 2.9 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 53.804 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064443.D
Acq: 05 Dec 2019 18:28

Tgt Ion: 95 Resp: 478177
Ion Ratio Lower Upper
95 100
174 96.3 0.0 197.2
176 93.4 0.0 189.6

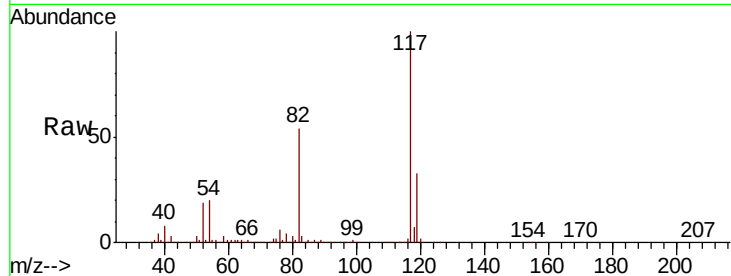




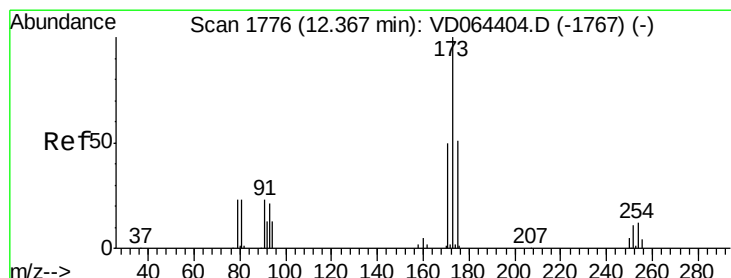
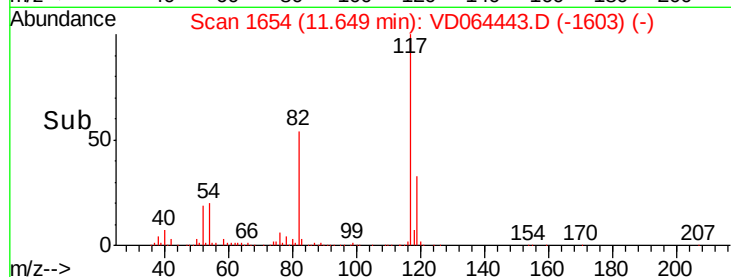
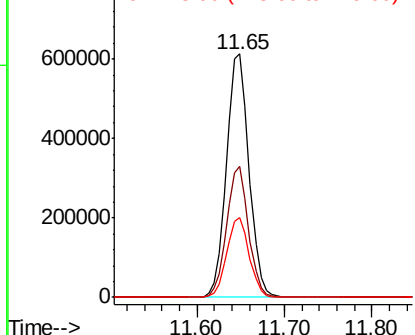
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD064443.D
Acq: 05 Dec 2019 18:28

Instrument :
MSVOA_D
ClientSampleId :
EP-2

Tot Ion:117 Resp: 1082144
Ion Ratio Lower Upper
117 100
82 53.6 41.4 62.2
119 32.6 26.2 39.2

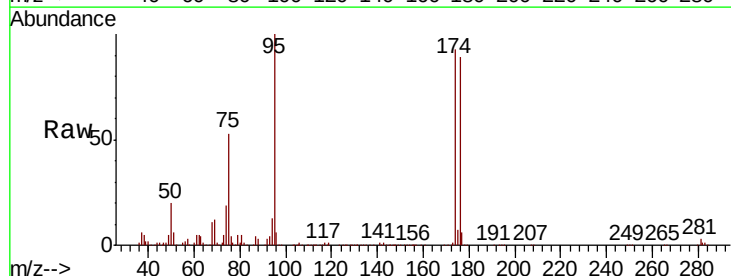


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

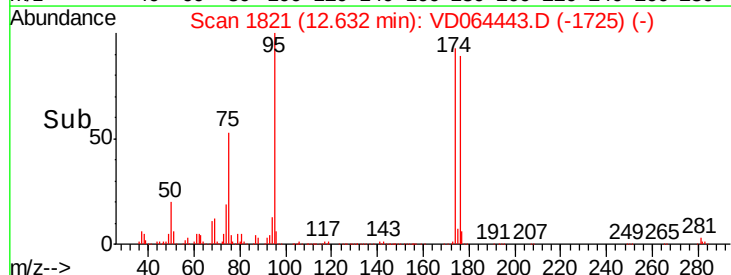
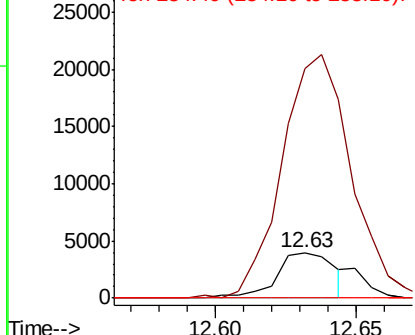


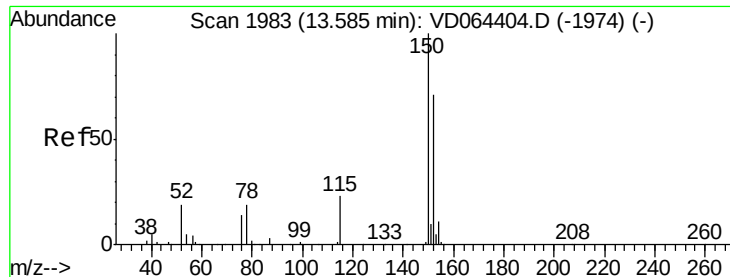
#71
Bromoform
Concen: 1.137 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.26 min
Lab File: VD064443.D
Acq: 05 Dec 2019 18:28

Tgt Ion:173 Resp: 5684
Ion Ratio Lower Upper
173 100
175 526.5 25.3 75.8#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD064443.D

Acq: 05 Dec 2019 18:28

Instrument :

MSVOA_D

ClientSampleId :

EP-2

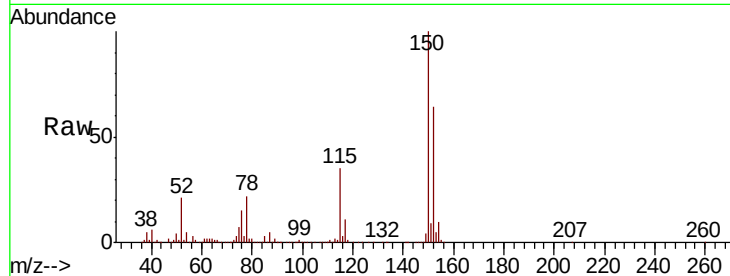
Tot Ion:152 Resp: 536258

Ion Ratio Lower Upper

152 100

115 54.9 26.7 80.1

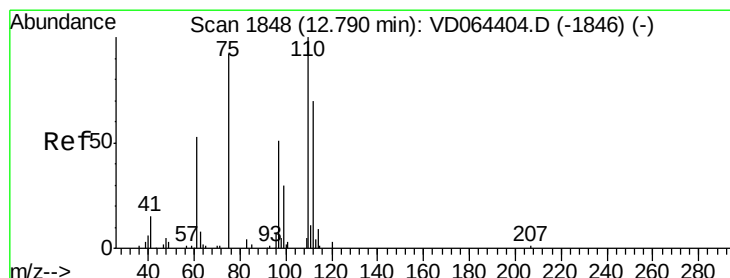
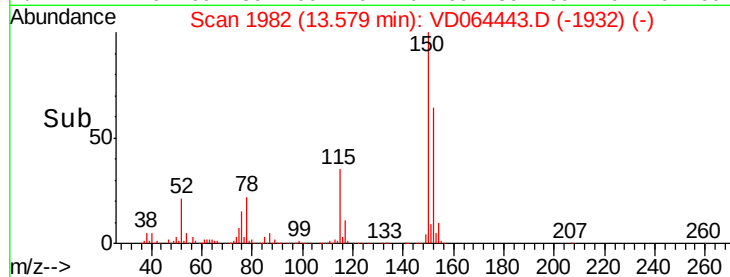
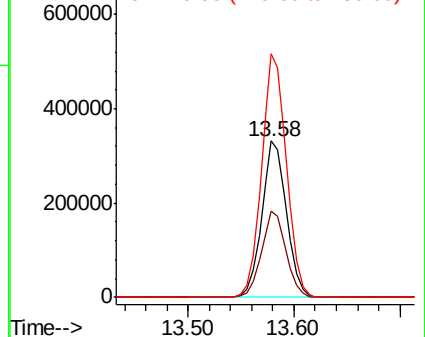
150 157.1 0.0 347.2



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: 56.925 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064443.D

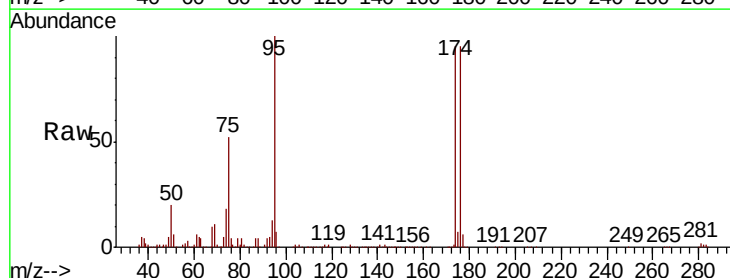
Acq: 05 Dec 2019 18:28

Tgt Ion: 75 Resp: 251038

Ion Ratio Lower Upper

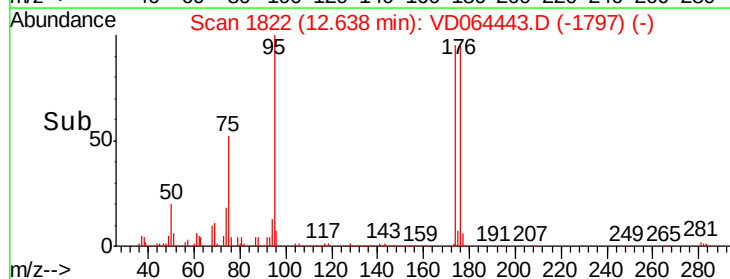
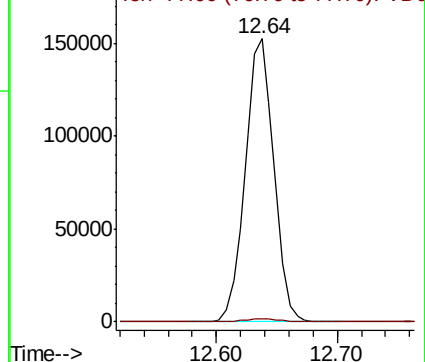
75 100

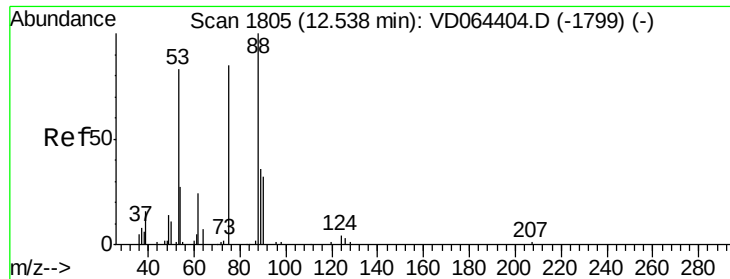
77 1.4 0.0 0.0#



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: 124.125 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD064443.D

Acq: 05 Dec 2019 18:28

Instrument :

MSVOA_D

ClientSampleId :

EP-2

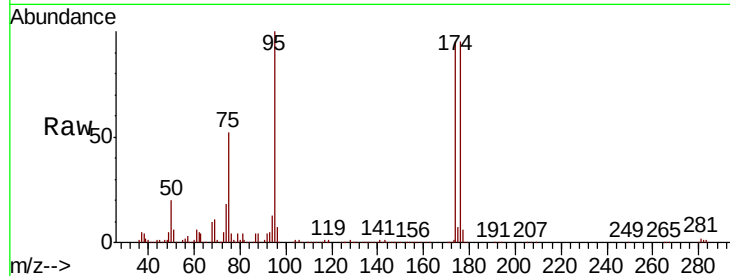
Tot Ion: 75 Resp: 251038

Ion Ratio Lower Upper

75 100

53 0.2 81.0 121.6#

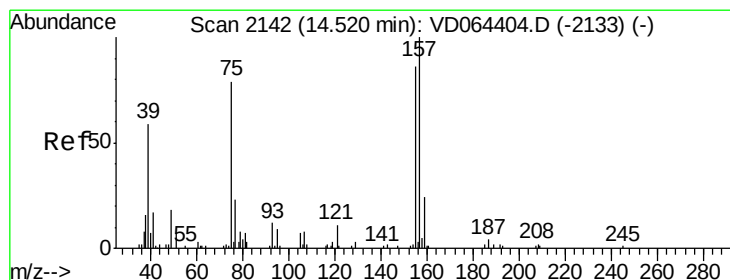
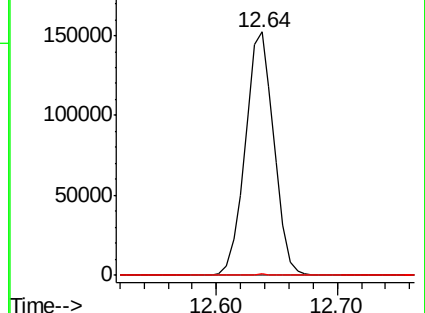
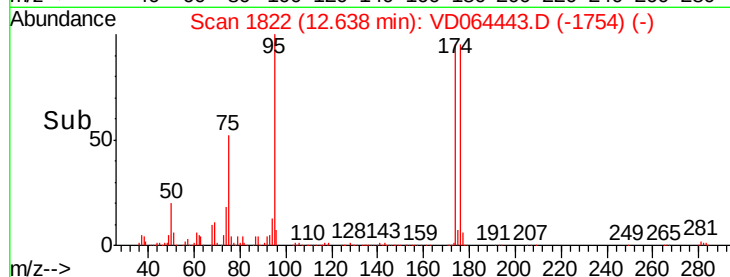
89 0.1 38.5 57.7#



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: VD064443.D

Acq: 05 Dec 2019 18:28

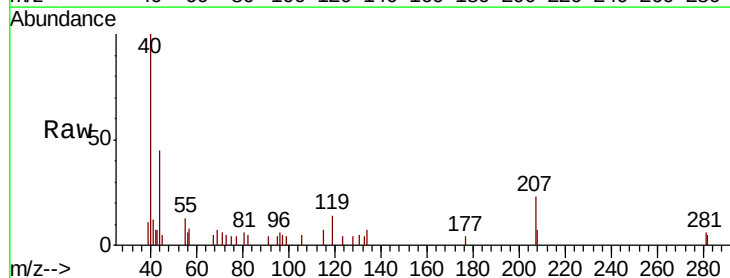
Tgt Ion: 75 Resp: 58

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

