

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD103119\
 Data File : VD064140.D
 Acq On : 31 Oct 2019 18:44
 Operator : VA/SY
 Sample : K5602-05RE
 Misc : 5.10G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Nov 01 06:06:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D102919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 30 08:00:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	145176	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	233848	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	246466	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	133797	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	70639	61.18	ug/l	0.00
Spiked Amount			Recovery	=	122.36%	
35) Dibromofluoromethane	7.91	113	27554	19.15	ug/l	0.00
Spiked Amount			Recovery	=	38.30%	
50) Toluene-d8	10.34	98	279637	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
62) 4-Bromofluorobenzene	12.64	95	105347	55.23	ug/l	0.00
Spiked Amount			Recovery	=	110.46%	

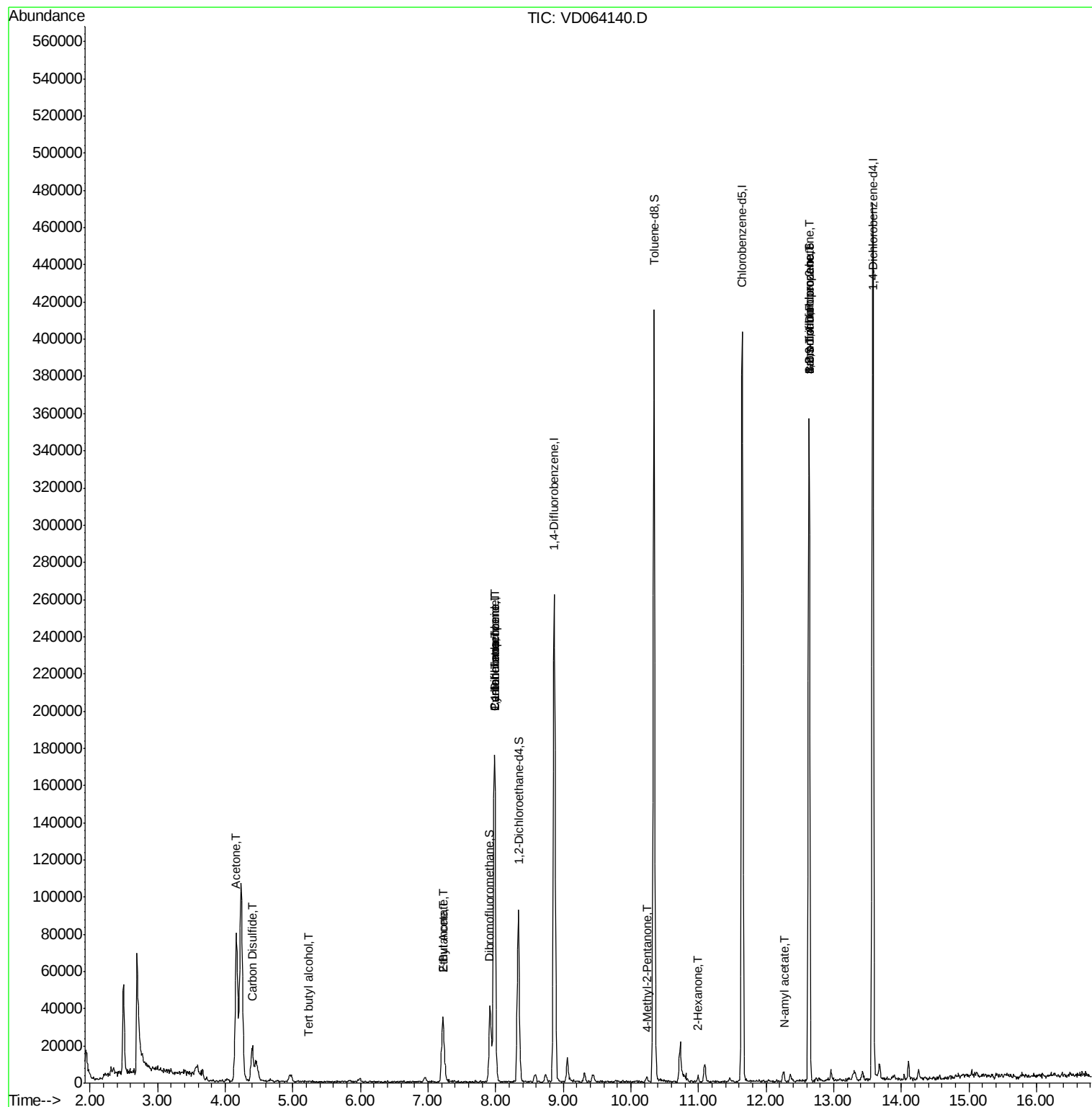
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.24	59	74	7.277	ug/l #	71
16) Acetone	4.16	43	137248	624.753	ug/l	99
17) Carbon Disulfide	4.40	76	37516	9.694	ug/l #	93
20) Methylene Chloride	4.98	84	3769	Below Cal	#	62
25) 2-Butanone	7.22	43	31410	103.423	ug/l	91
31) Cyclohexane	7.98	56	2726	1.269	ug/l #	59
36) 1,1-Dichloropropene	7.98	75	9593	4.378	ug/l #	50
37) Ethyl Acetate	7.22	43	31410	46.571	ug/l #	74
38) Carbon Tetrachloride	7.99	117	14166	5.925	ug/l #	17
51) 4-Methyl-2-Pentanone	10.23	43	1633	2.201	ug/l	94
59) 2-Hexanone	11.00	43	2290	12.809	ug/l	94
71) Bromoform	12.64	173	1715	1.685	ug/l #	1
74) N-amyl acetate	12.26	43	3637	2.355	ug/l #	43
76) 1,2,3-Trichloropropane	12.64	75	52821	58.753	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	52821	119.988	ug/l #	15

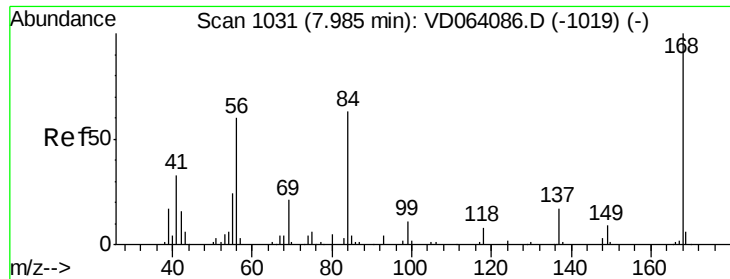
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 01 06:06:19 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_D\METHOD\82D102919S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 30 08:00:10 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064140.D

Acq: 31 Oct 2019 18:44

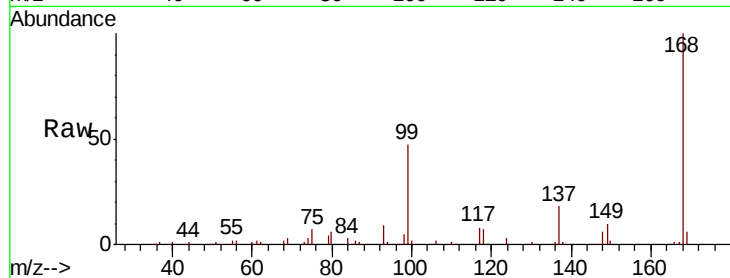
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 145176

Ion Ratio Lower Upper

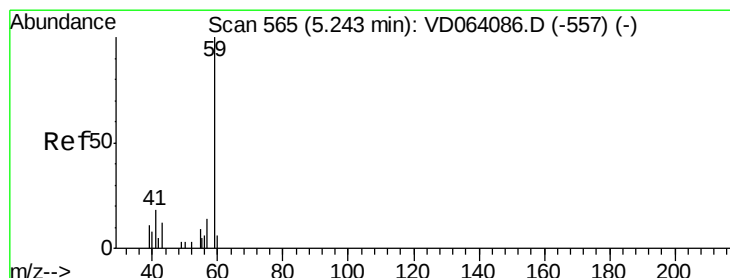
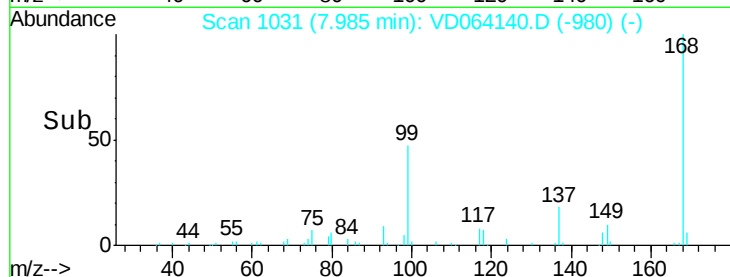
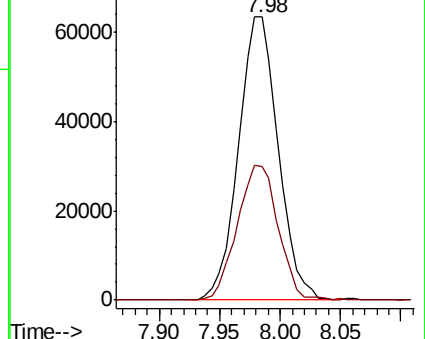
168 100

99 47.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 7.277 ug/l

RT: 5.24 min Scan# 564

Delta R.T. -0.01 min

Lab File: VD064140.D

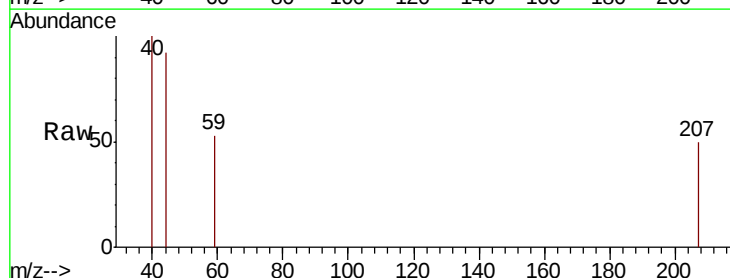
Acq: 31 Oct 2019 18:44

Tgt Ion: 59 Resp: 74

Ion Ratio Lower Upper

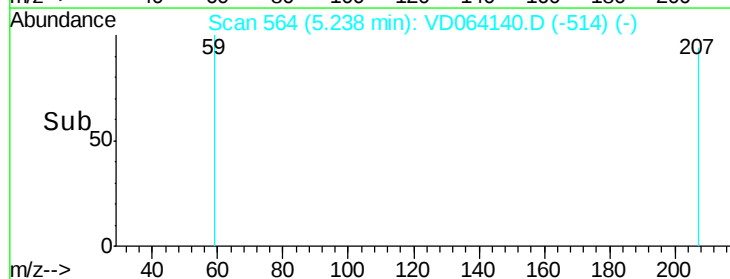
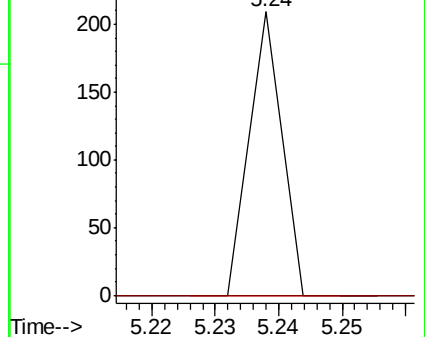
59 100

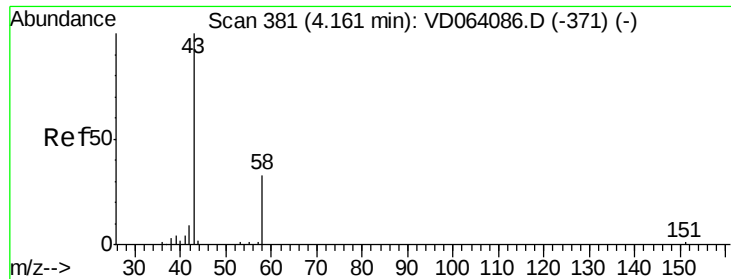
57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 624.753 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD064140.D

Acq: 31 Oct 2019 18:44

Instrument :

MSVOA_D

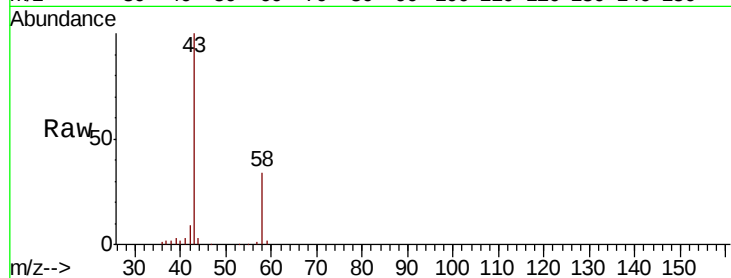
ClientSampled :

Tot Ion: 43 Resp: 137248

Ion Ratio Lower Upper

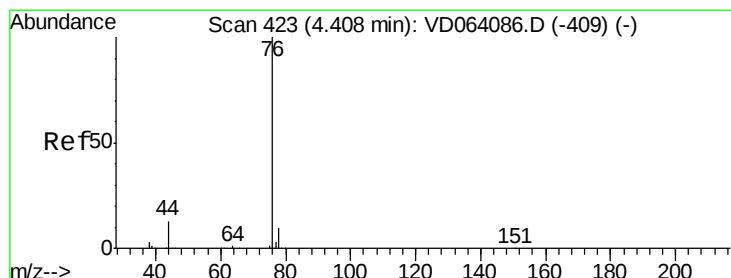
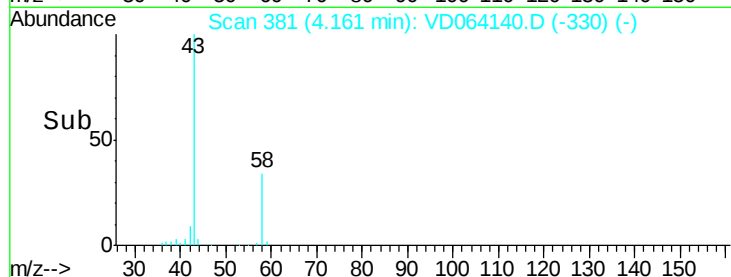
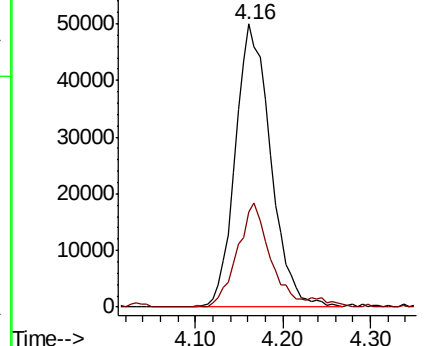
43 100

58 33.5 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#17

Carbon Disulfide

Concen: 9.694 ug/l

RT: 4.40 min Scan# 422

Delta R.T. -0.01 min

Lab File: VD064140.D

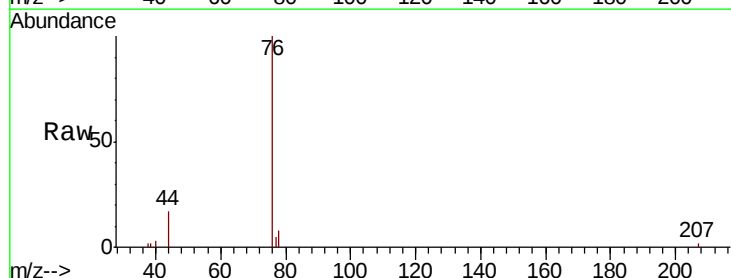
Acq: 31 Oct 2019 18:44

Tgt Ion: 76 Resp: 37516

Ion Ratio Lower Upper

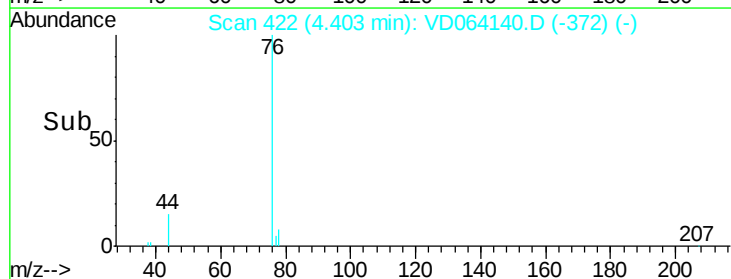
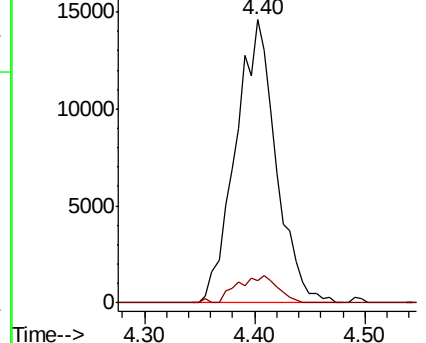
76 100

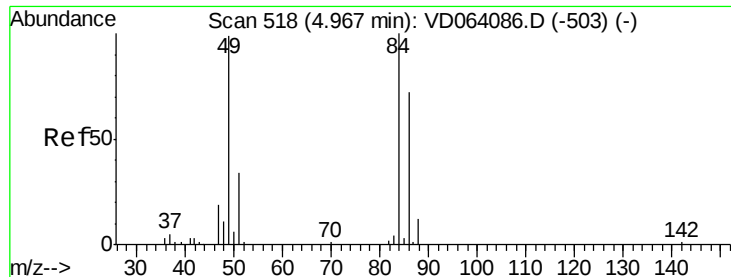
78 7.7 8.1 12.1#



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC

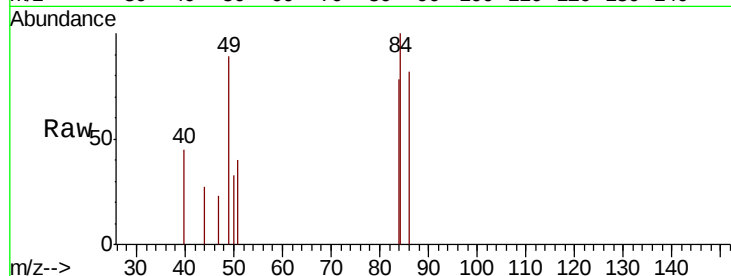




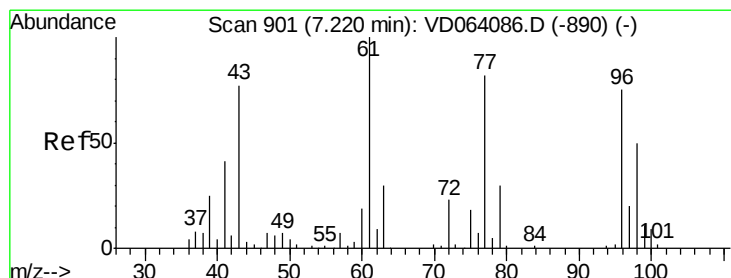
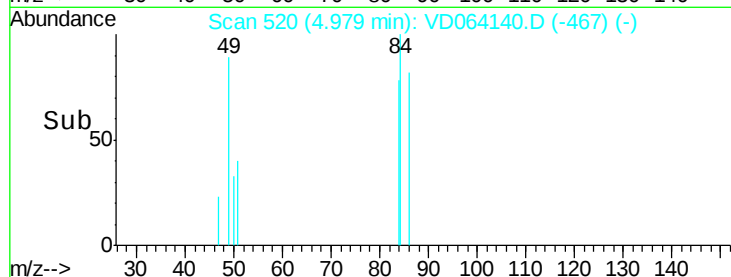
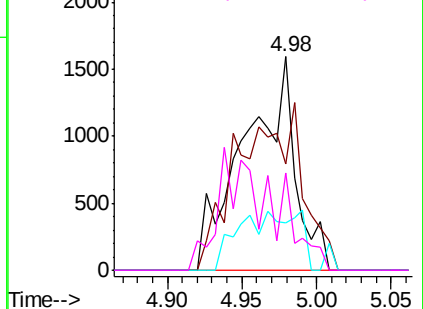
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.98 min Scan# 520
Delta R.T. 0.01 min
Lab File: VD064140.D
Acq: 31 Oct 2019 18:44

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 84 Resp: 3769
Ion Ratio Lower Upper
84 100
49 49.8 79.4 119.0#
51 22.2 27.4 41.2#
86 45.7 57.4 86.0#

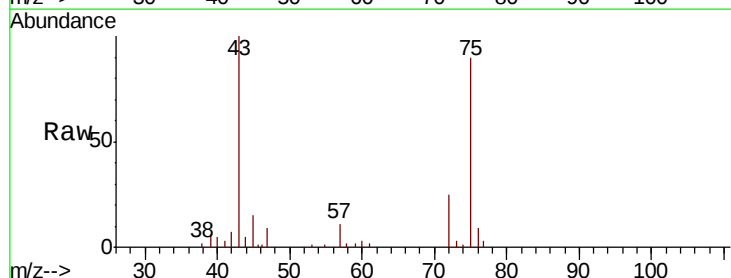


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

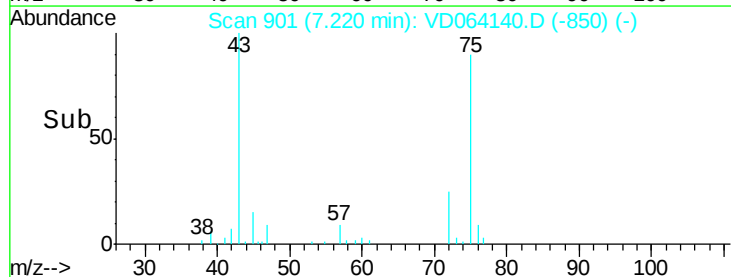
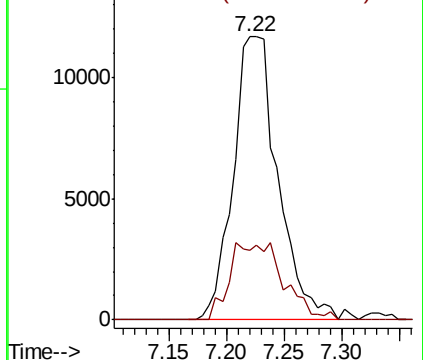


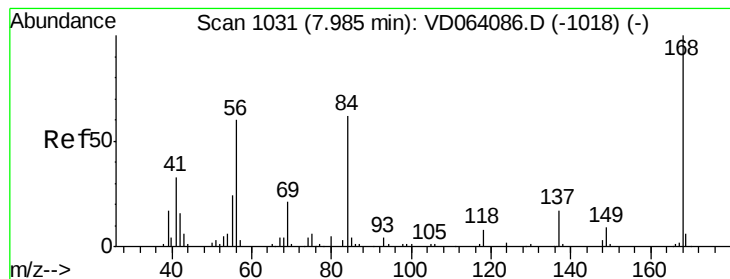
#25
2-Butanone
Concen: 103.423 ug/l
RT: 7.22 min Scan# 901
Delta R.T. 0.00 min
Lab File: VD064140.D
Acq: 31 Oct 2019 18:44

Tgt Ion: 43 Resp: 31410
Ion Ratio Lower Upper
43 100
72 24.5 23.4 35.0



Abundance Ion 43.00 (42.70 to 43.70): VDC
Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.269 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064140.D

Acq: 31 Oct 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

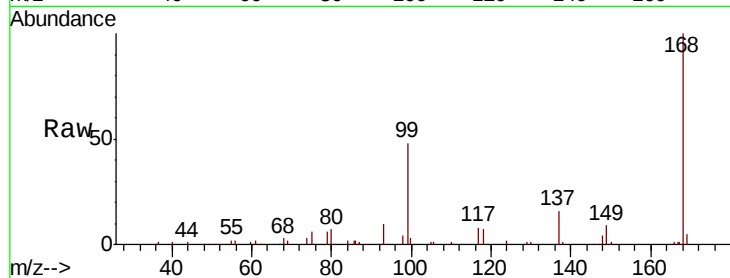
Tot Ion: 56 Resp: 2726

Ion Ratio Lower Upper

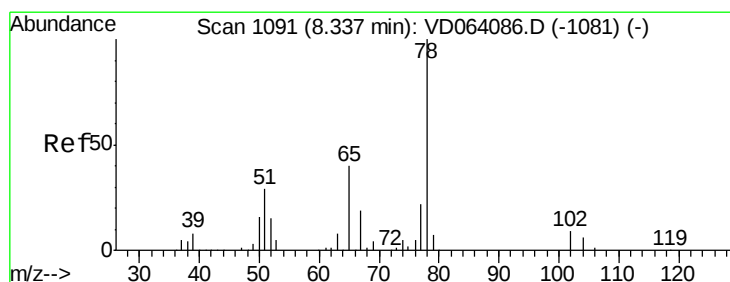
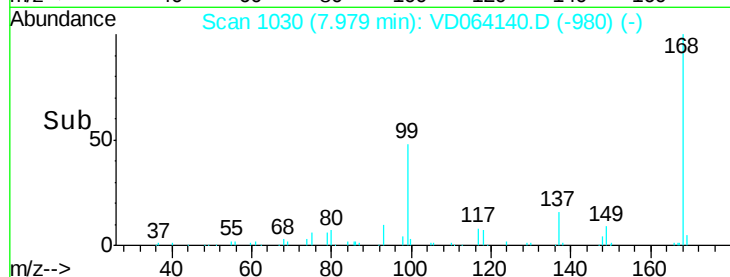
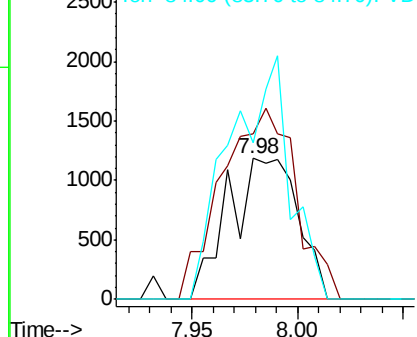
56 100

69 117.7 27.7 41.5#

84 111.4 83.1 124.7



Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 61.181 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD064140.D

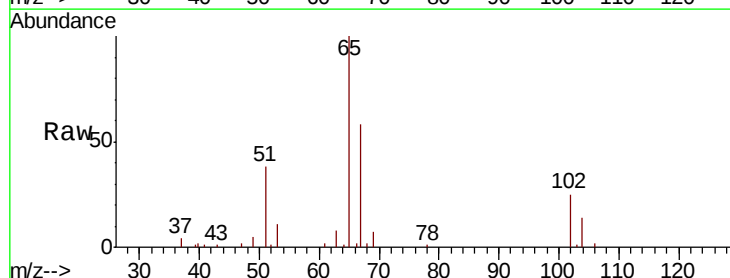
Acq: 31 Oct 2019 18:44

Tgt Ion: 65 Resp: 70639

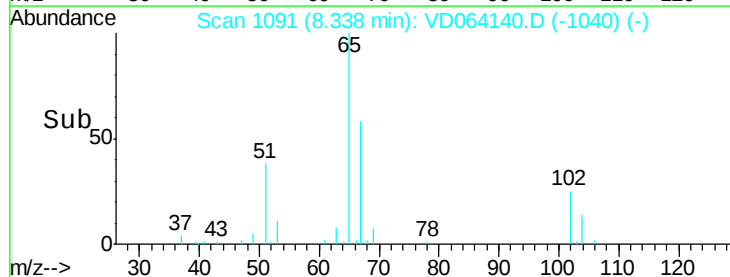
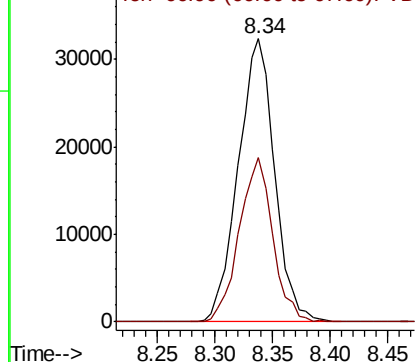
Ion Ratio Lower Upper

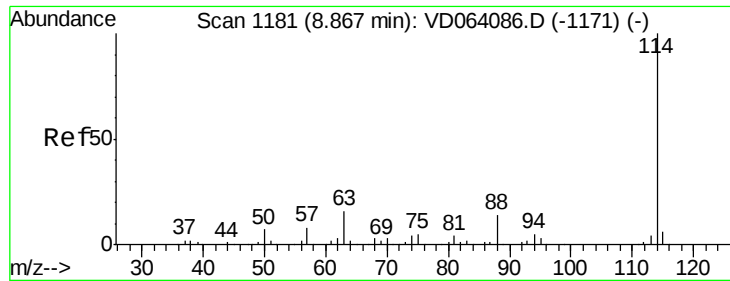
65 100

67 53.2 0.0 104.6



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

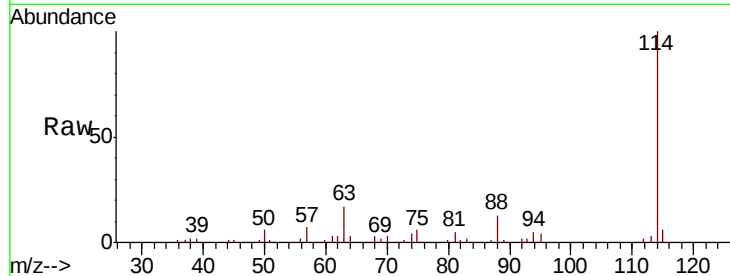




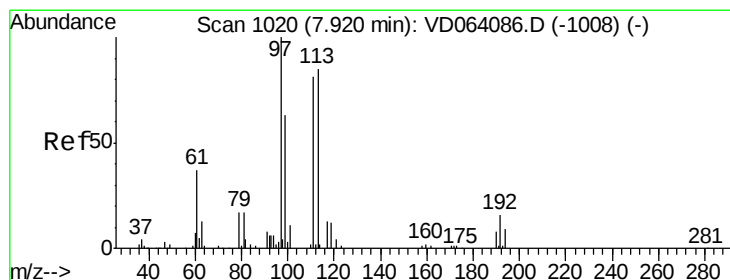
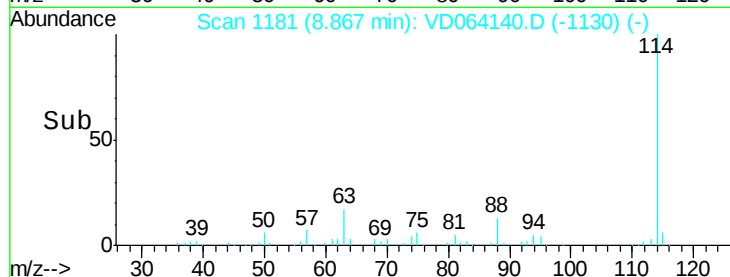
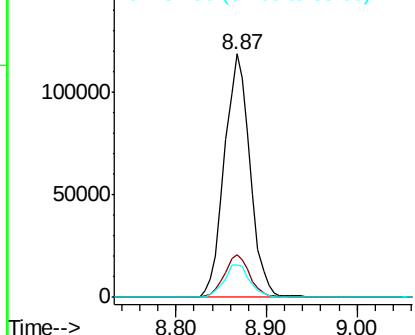
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064140.D
 Acq: 31 Oct 2019 18:44

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion:114 Resp: 233848
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 32.8
 88 13.1 0.0 27.6

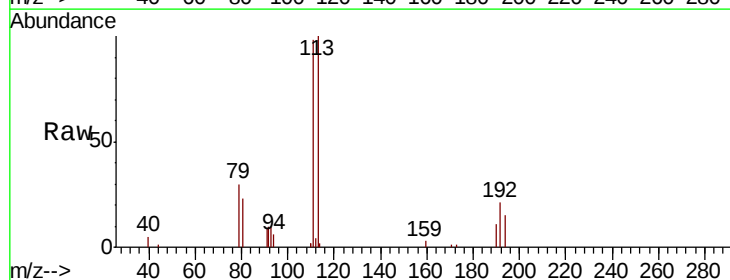


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VDC
 Ion 87.90 (87.60 to 88.60): VDC

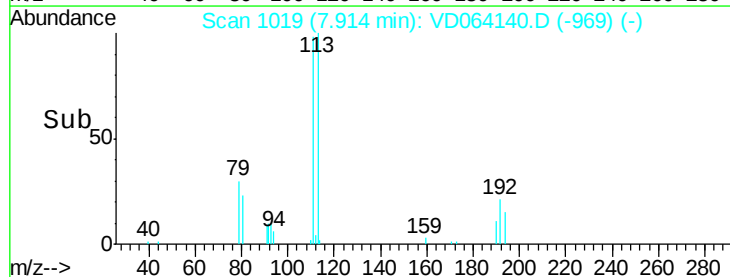
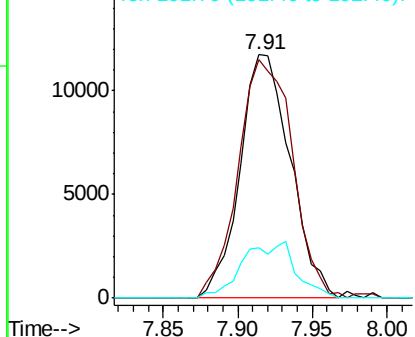


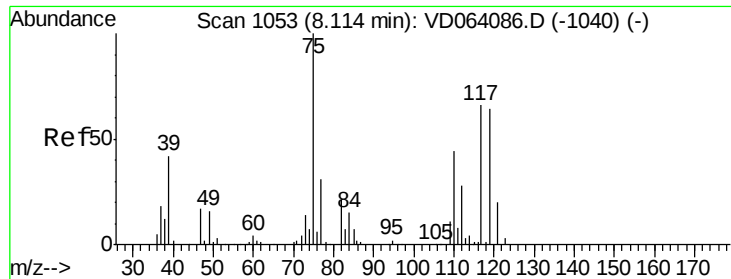
#35
 Dibromofluoromethane
 Concen: 19.152 ug/l
 RT: 7.91 min Scan# 1019
 Delta R.T. -0.01 min
 Lab File: VD064140.D
 Acq: 31 Oct 2019 18:44

Tgt Ion:113 Resp: 27554
 Ion Ratio Lower Upper
 113 100
 111 105.2 79.3 118.9
 192 24.6 16.2 24.2#



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

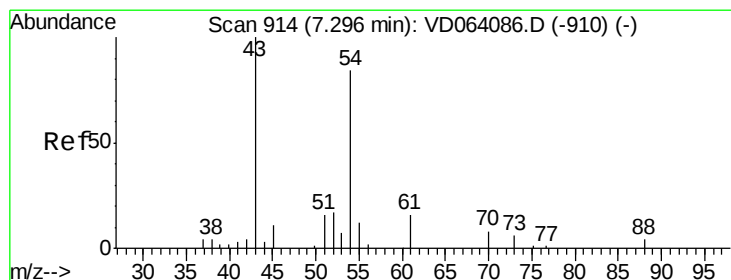
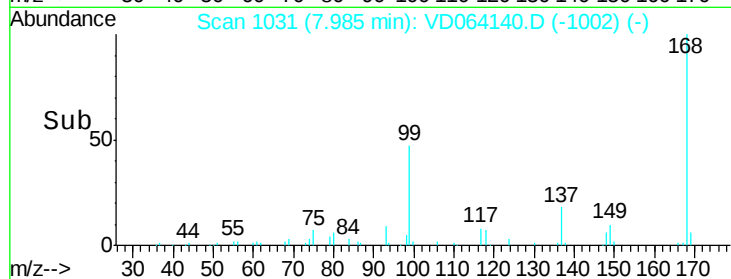
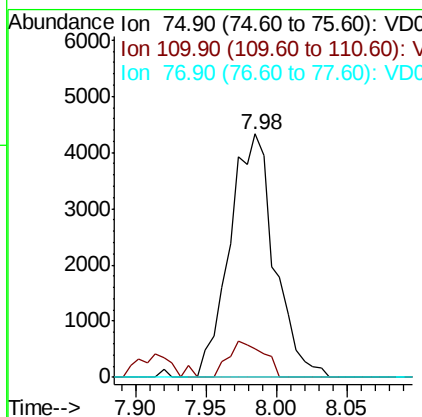
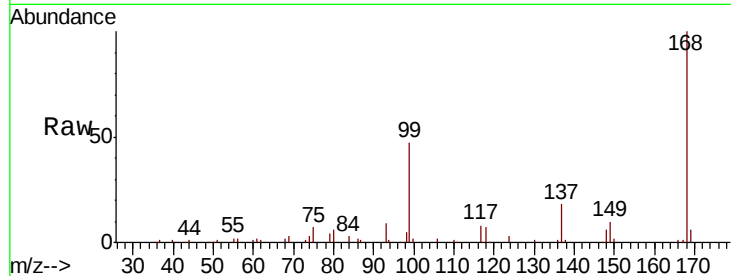




#36
 1,1-Dichloropropene
 Concen: 4.378 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD064140.D
 Acq: 31 Oct 2019 18:44

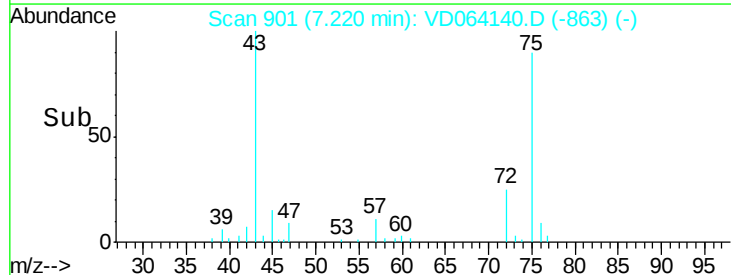
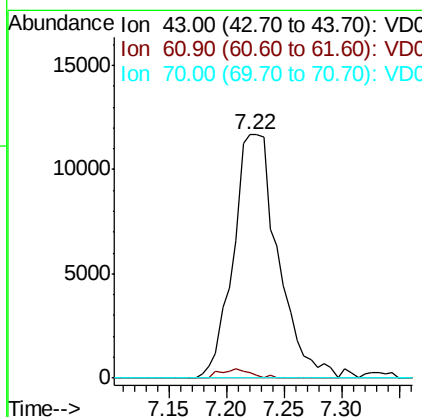
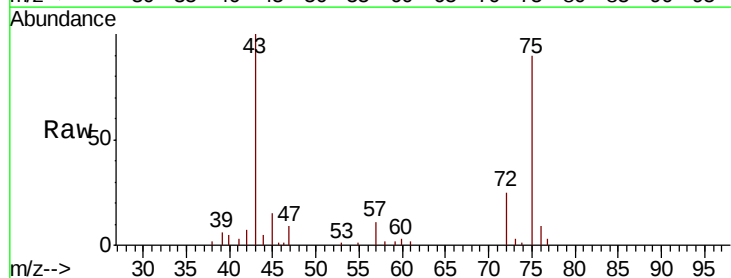
Instrument :
 MSVOA_D
 ClientSampleId :

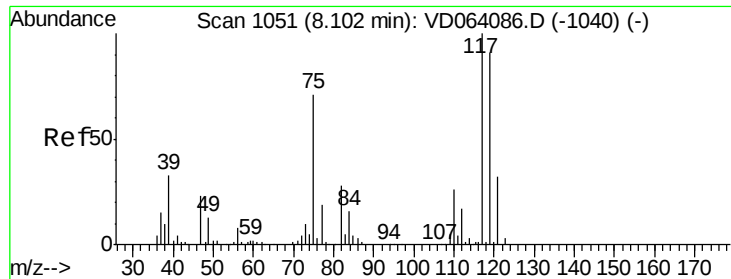
Tot Ion: 75 Resp: 9593
 Ion Ratio Lower Upper
 75 100
 110 11.7 20.0 59.9#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 46.571 ug/l
 RT: 7.22 min Scan# 901
 Delta R.T. -0.08 min
 Lab File: VD064140.D
 Acq: 31 Oct 2019 18:44

Tgt Ion: 43 Resp: 31410
 Ion Ratio Lower Upper
 43 100
 61 2.5 12.0 18.0#
 70 0.0 3.8 5.6#





#38

Carbon Tetrachloride

Concen: 5.925 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.11 min

Lab File: VD064140.D

Acq: 31 Oct 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

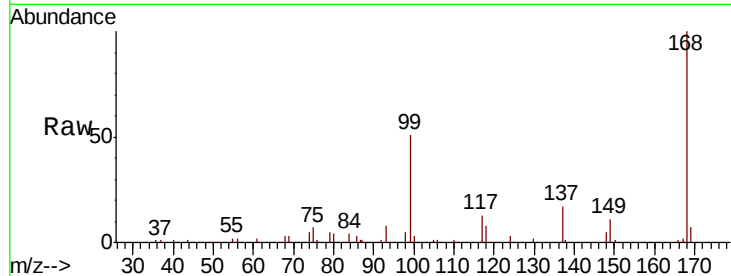
Tot Ion:117 Resp: 14166

Ion Ratio Lower Upper

117 100

119 3.3 72.6 108.8#

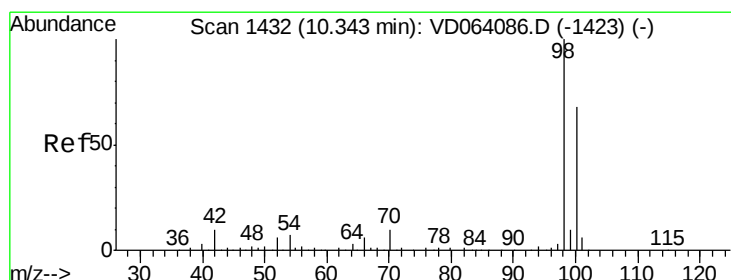
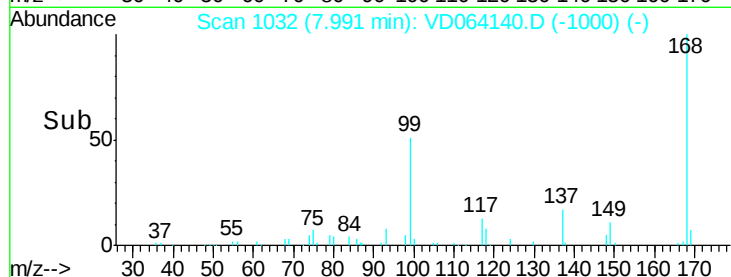
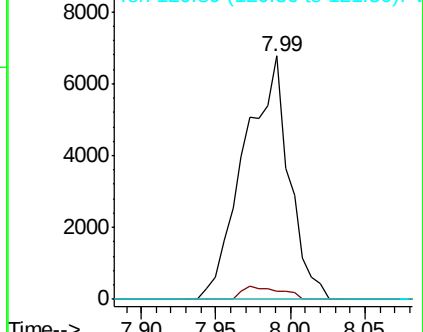
121 0.0 25.8 38.6#



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: 48.602 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064140.D

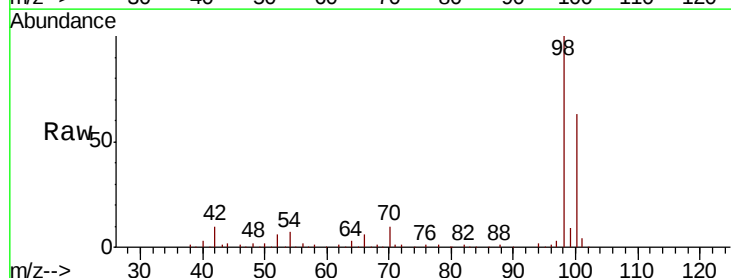
Acq: 31 Oct 2019 18:44

Tgt Ion: 98 Resp: 279637

Ion Ratio Lower Upper

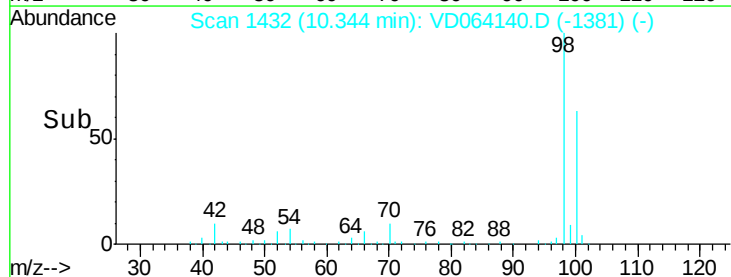
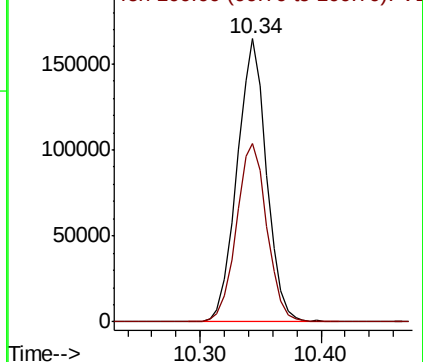
98 100

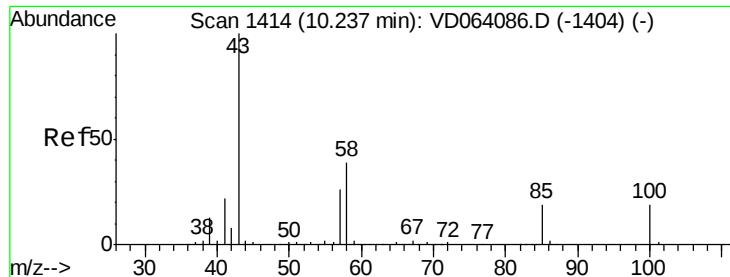
100 65.2 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 2.201 ug/l

RT: 10.23 min Scan# 1413

Delta R.T. -0.01 min

Lab File: VD064140.D

Acq: 31 Oct 2019 18:44

Instrument :

MSVOA_D

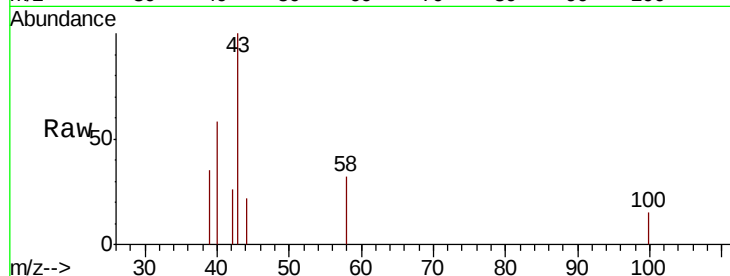
ClientSampleId :

Tot Ion: 43 Resp: 1633

Ion Ratio Lower Upper

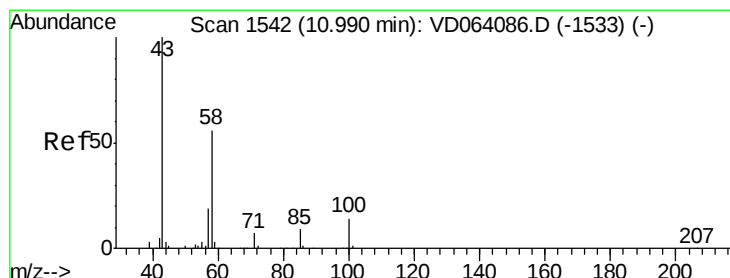
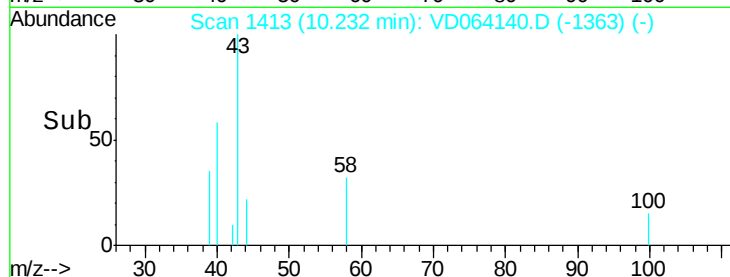
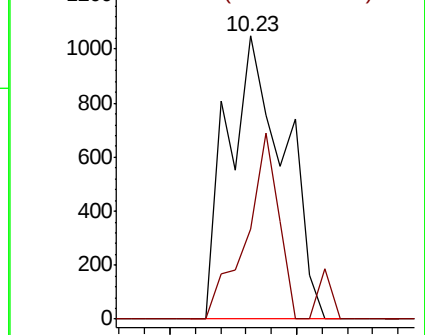
43 100

58 37.5 33.0 49.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#59

2-Hexanone

Concen: 12.809 ug/l

RT: 11.00 min Scan# 1543

Delta R.T. 0.01 min

Lab File: VD064140.D

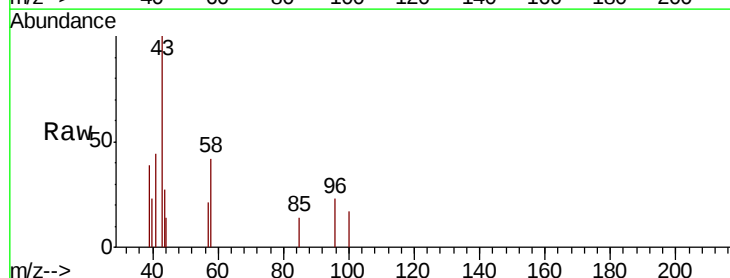
Acq: 31 Oct 2019 18:44

Tgt Ion: 43 Resp: 2290

Ion Ratio Lower Upper

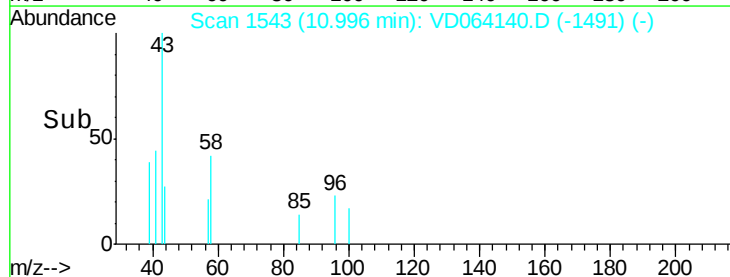
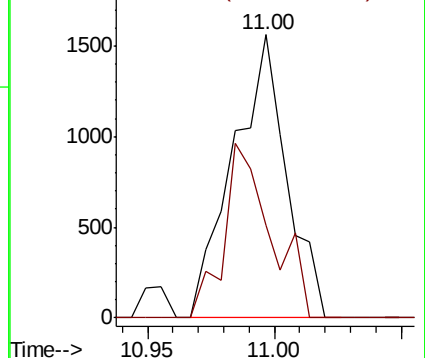
43 100

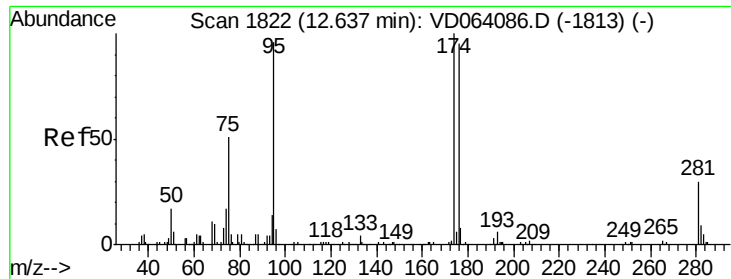
58 53.9 29.2 87.6



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

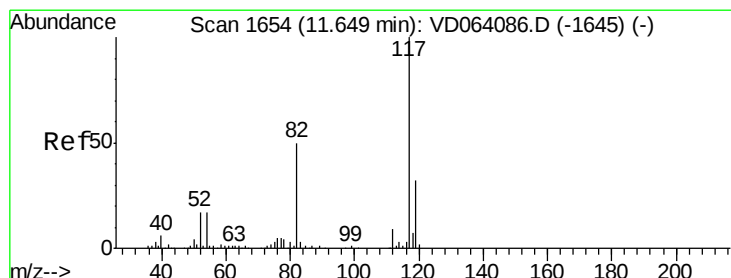
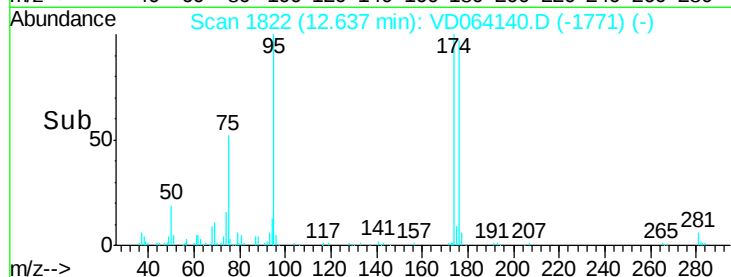
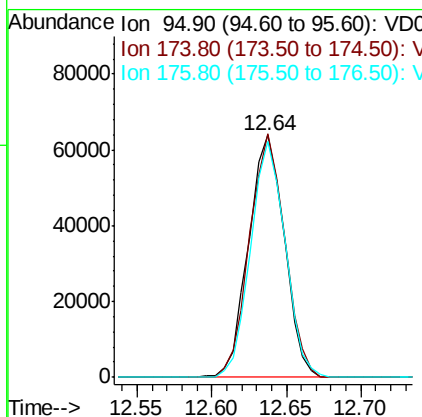
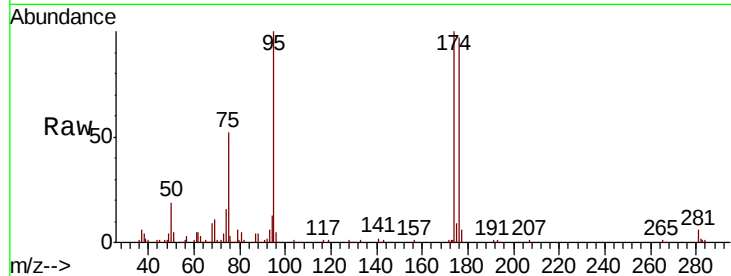




#62
4-Bromofluorobenzene
Concen: 55.228 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064140.D
Acq: 31 Oct 2019 18:44

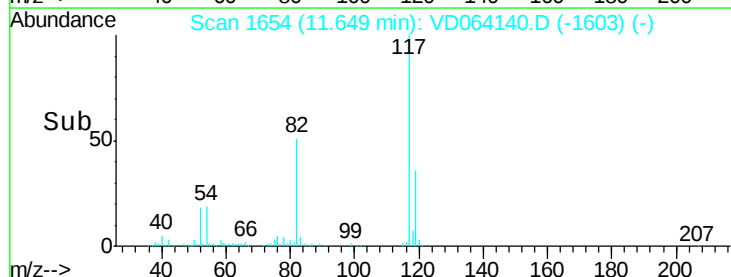
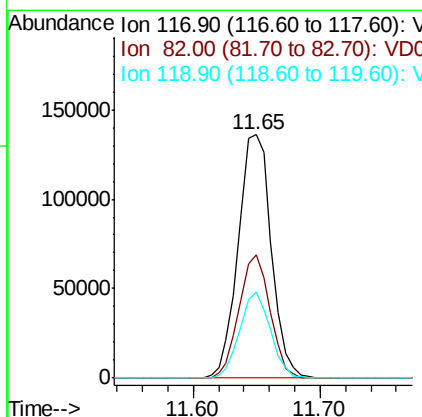
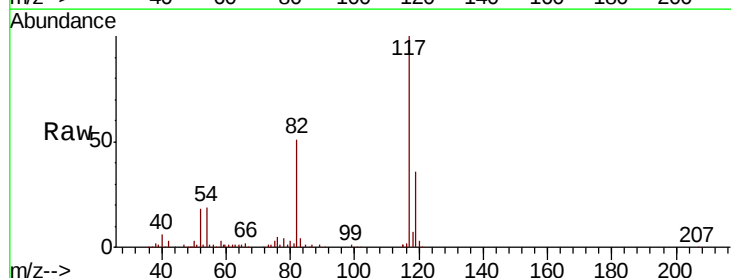
Instrument :
MSVOA_D
ClientSampleId :

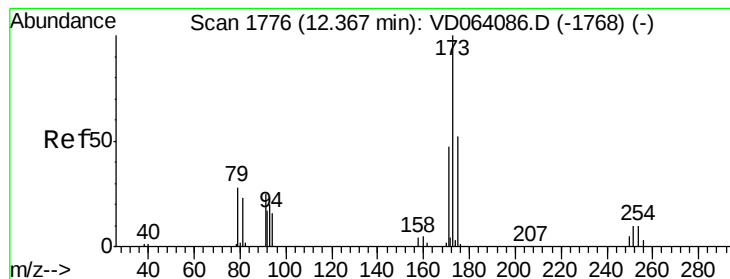
Tot Ion	95	Resp	105347
Ion Ratio	Lower	Upper	
95	100		
174	99.7	0.0	201.6
176	94.6	0.0	192.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064140.D
Acq: 31 Oct 2019 18:44

Tgt Ion	117	Resp	246466
Ion Ratio	Lower	Upper	
117	100		
82	50.5	40.2	60.4
119	35.5	26.0	39.0





#71

Bromoform

Concen: 1.685 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.27 min

Lab File: VD064140.D

Acq: 31 Oct 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

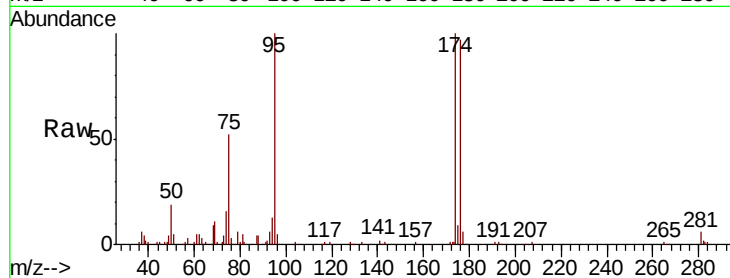
Tot Ion:173 Resp: 1715

Ion Ratio Lower Upper

173 100

175 374.2 24.3 72.9#

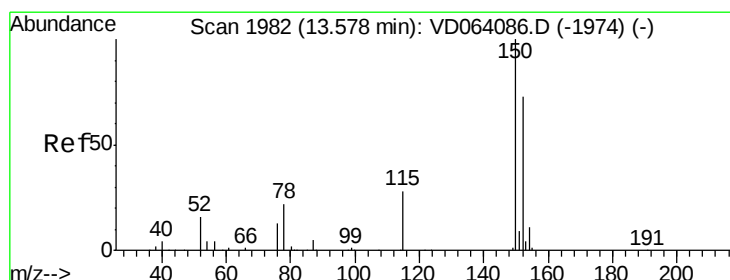
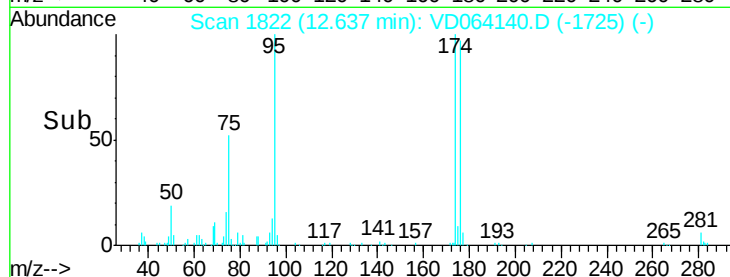
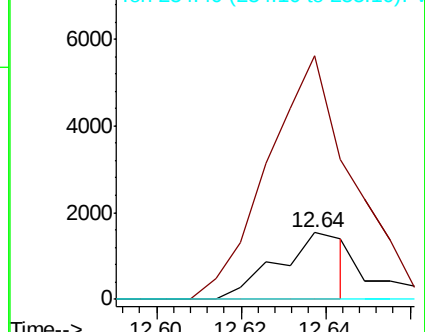
254 0.0 0.0 0.0



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. 0.00 min

Lab File: VD064140.D

Acq: 31 Oct 2019 18:44

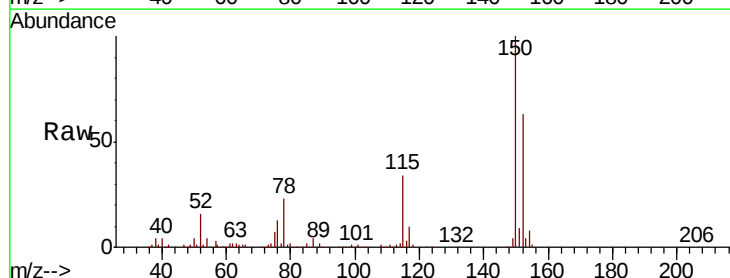
Tgt Ion:152 Resp: 133797

Ion Ratio Lower Upper

152 100

115 54.1 26.2 78.6

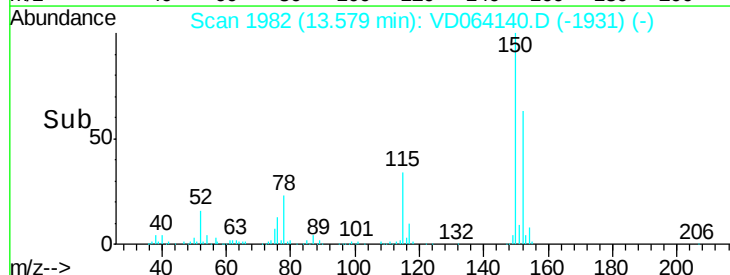
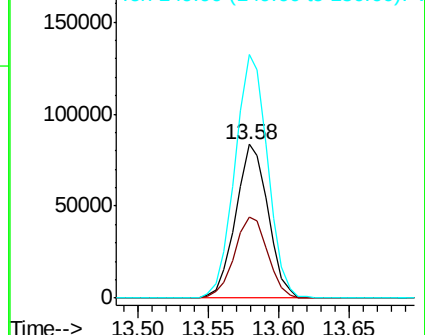
150 160.1 0.0 338.8

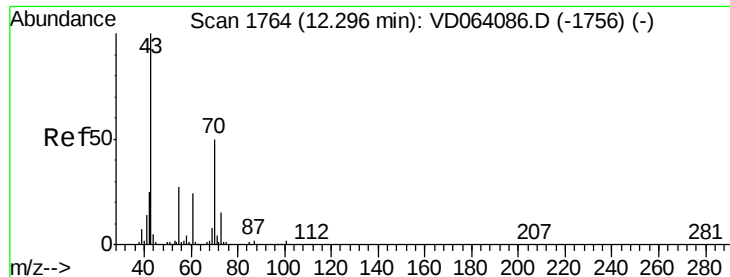


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.355 ug/l

RT: 12.26 min Scan# 1758

Delta R.T. -0.04 min

Lab File: VD064140.D

Acq: 31 Oct 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

Tot Ion: 43 Resp: 3637

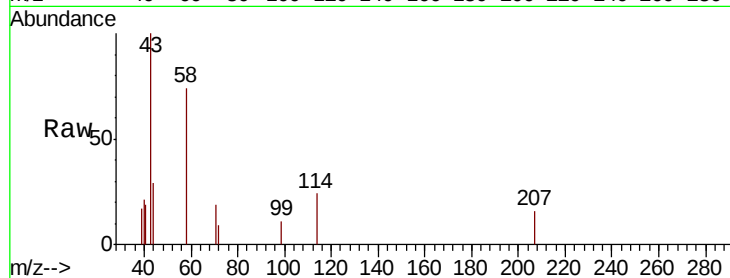
Ion Ratio Lower Upper

43 100

70 0.0 38.6 58.0#

55 6.7 20.4 30.6#

61 0.0 20.8 31.2#

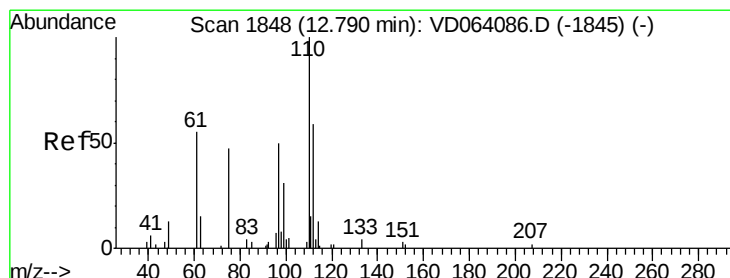
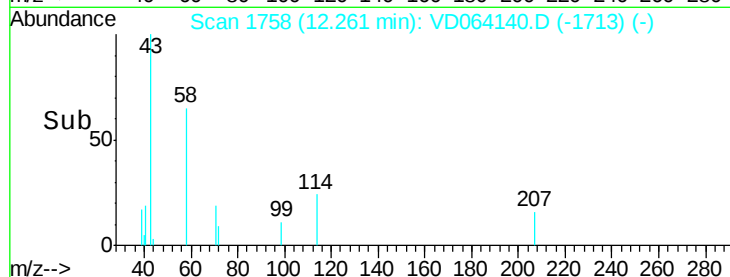
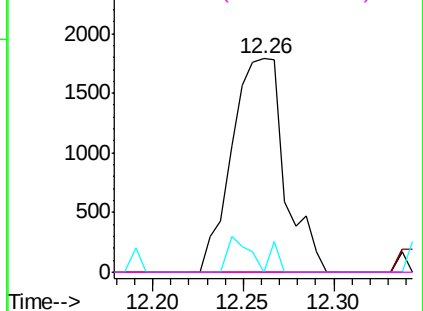


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 61.00 (60.70 to 61.70): VDC



#76

1,2,3-Trichloropropane

Concen: 58.753 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064140.D

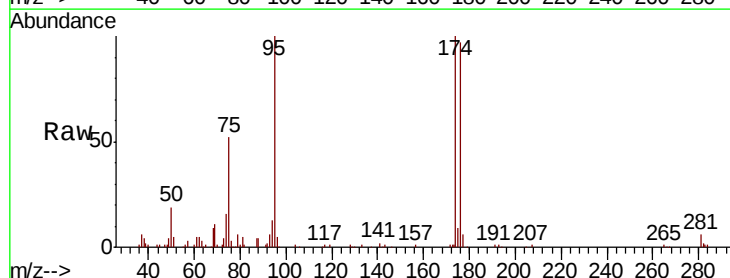
Acq: 31 Oct 2019 18:44

Tgt Ion: 75 Resp: 52821

Ion Ratio Lower Upper

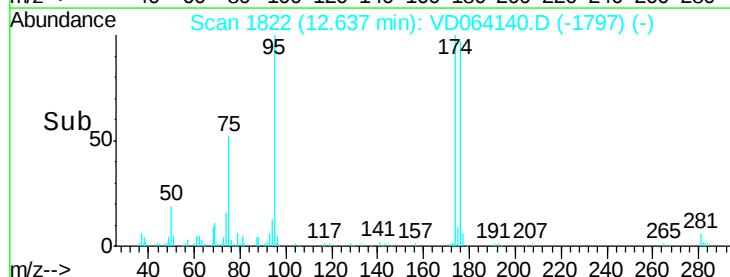
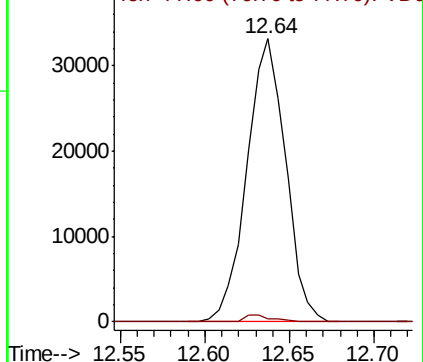
75 100

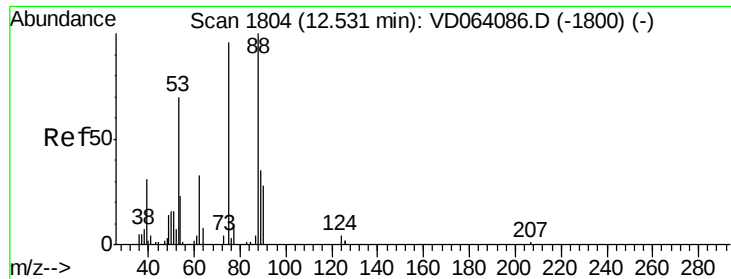
77 1.5 0.0 0.0#



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: 119.988 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064140.D

Acq: 31 Oct 2019 18:44

Instrument :

MSVOA_D

ClientSampleId :

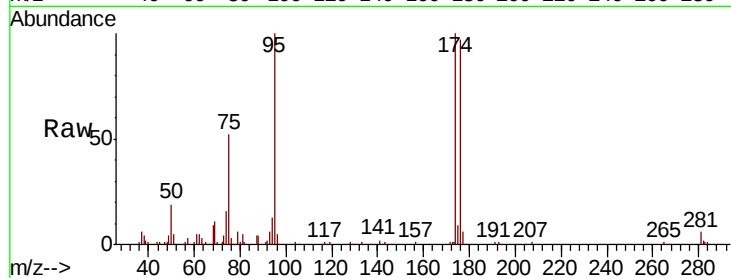
Tot Ion: 75 Resp: 52821

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

89 0.0 36.9 55.3#



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

