

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\
 Data File : VD064603.D
 Acq On : 26 Dec 2019 17:04
 Operator : VA/SY
 Sample : K6437-02
 Misc : 5.84G/5.00ml/MSVOA D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 27 01:41:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D122419S.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 24 13:19:06 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	119842	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	192673	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	196536	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	95320	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	72186	68.31	ug/l	0.00
Spiked Amount			Recovery	=	136.62%	
35) Dibromofluoromethane	7.92	113	65829	55.69	ug/l	0.00
Spiked Amount			Recovery	=	111.38%	
50) Toluene-d8	10.34	98	232594	51.38	ug/l	0.00
Spiked Amount			Recovery	=	102.76%	
62) 4-Bromofluorobenzene	12.64	95	83177	58.10	ug/l	0.00
Spiked Amount			Recovery	=	116.20%	

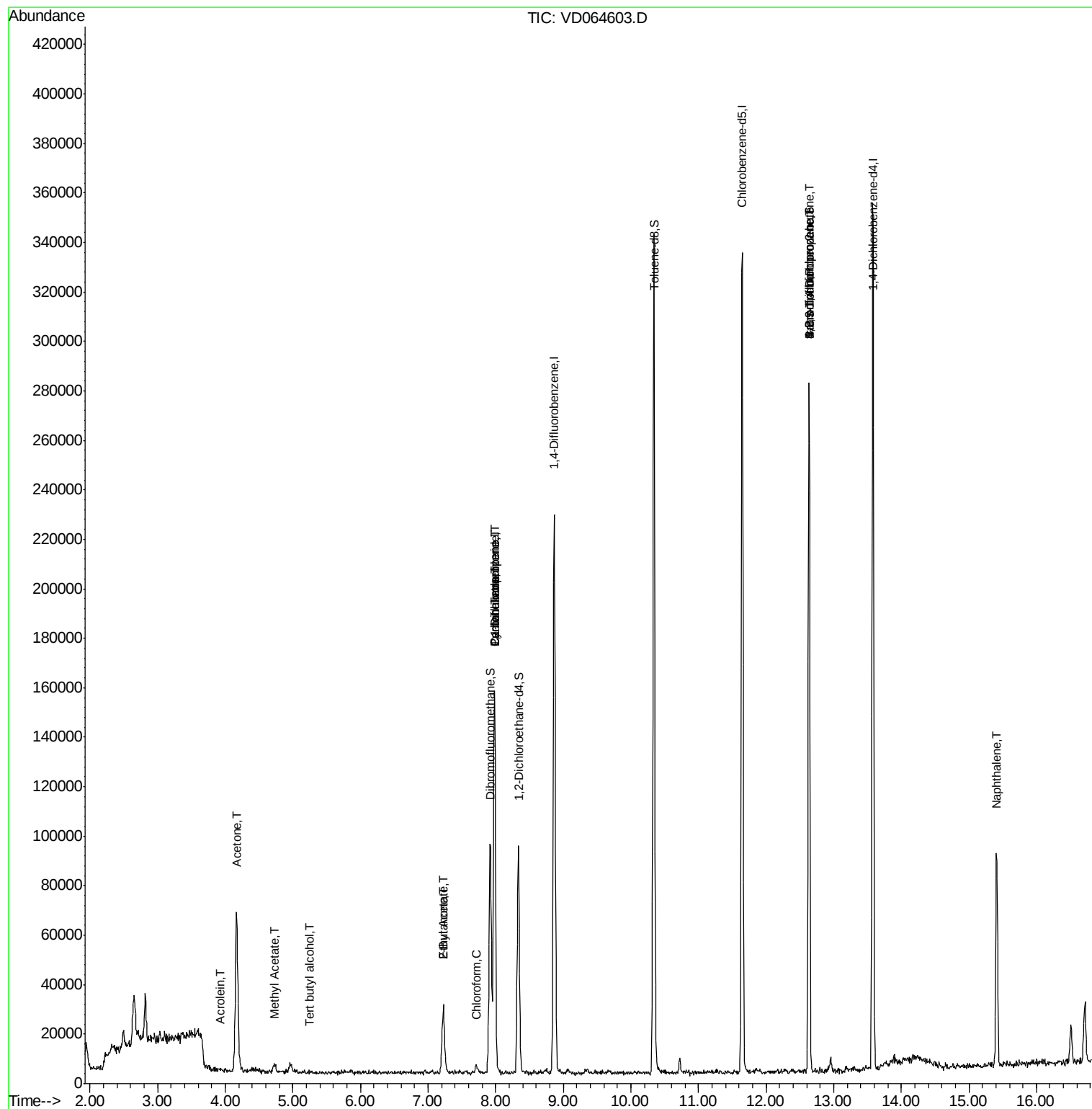
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	5.25	59	76	1.255	ug/l #	70
13) Acrolein	3.93	56	375	4.443	ug/l #	62
16) Acetone	4.17	43	112533	607.520	ug/l	93
18) Methyl Acetate	4.73	43	6028	10.132	ug/l #	75
20) Methylene Chloride	4.97	84	2804	Below Cal	#	83
25) 2-Butanone	7.23	43	42665	146.880	ug/l	95
30) Chloroform	7.71	83	2986	1.446	ug/l	92
31) Cyclohexane	7.98	56	2462	1.250	ug/l #	16
36) 1,1-Dichloropropene	7.98	75	8304	4.478	ug/l #	43
37) Ethyl Acetate	7.23	43	42665	58.563	ug/l #	70
38) Carbon Tetrachloride	7.98	117	11675	5.904	ug/l #	16
71) Bromoform	12.63	173	973	1.110	ug/l #	28
76) 1,2,3-Trichloropropane	12.64	75	44091	58.577	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	44091	122.511	ug/l #	10
95) Naphthalene	15.41	128	75856	23.935	ug/l	97

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064603.D

Acq: 26 Dec 2019 17:04

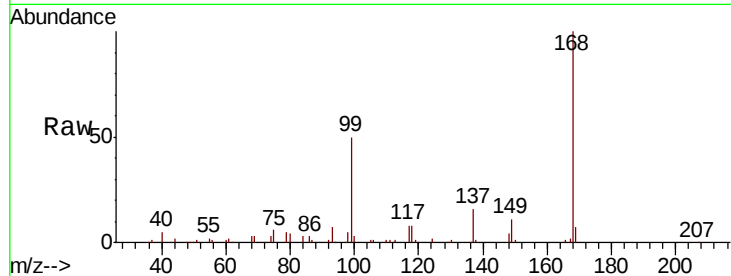
Instrument :
MSVOA_D
ClientSampled :

Tot Ion:168 Resp: 119842

Ion Ratio Lower Upper

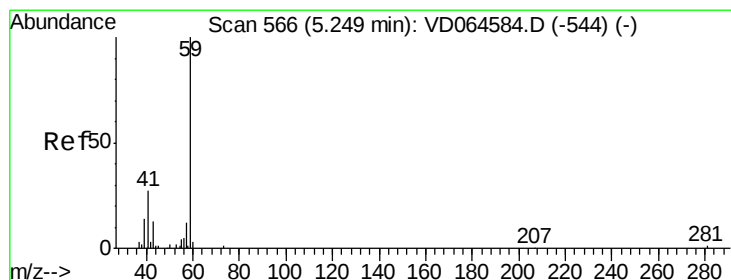
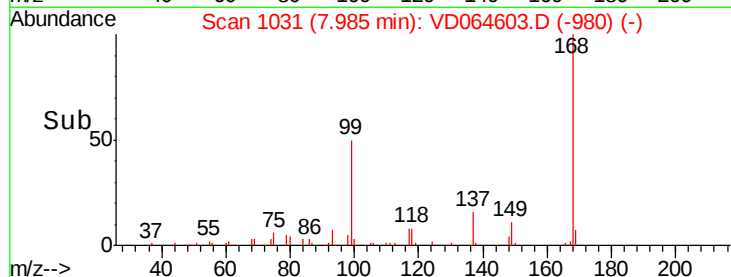
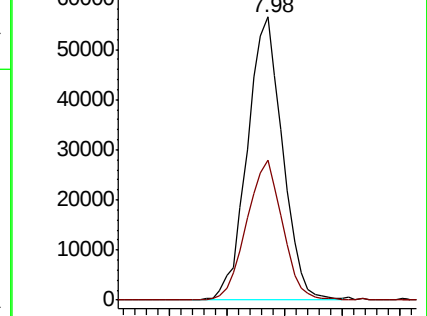
168 100

99 49.6 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 1.255 ug/l

RT: 5.25 min Scan# 566

Delta R.T. 0.00 min

Lab File: VD064603.D

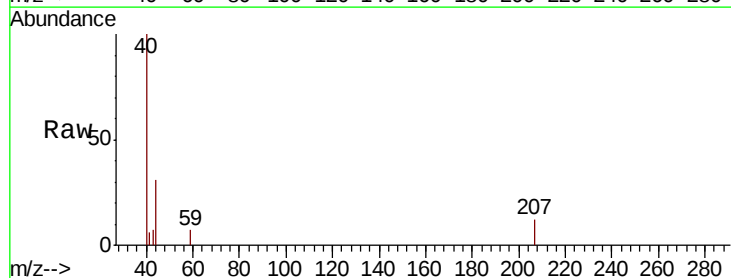
Acq: 26 Dec 2019 17:04

Tgt Ion: 59 Resp: 76

Ion Ratio Lower Upper

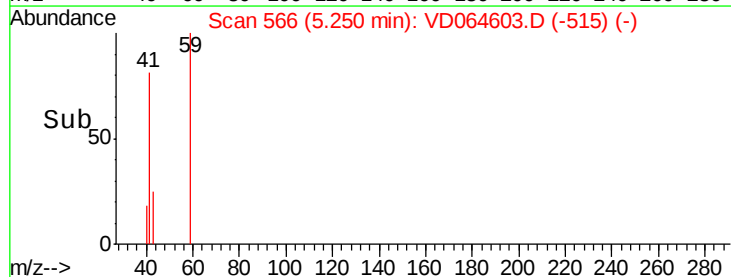
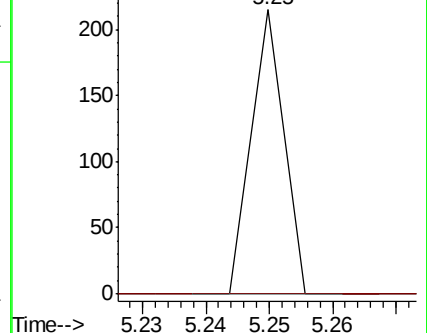
59 100

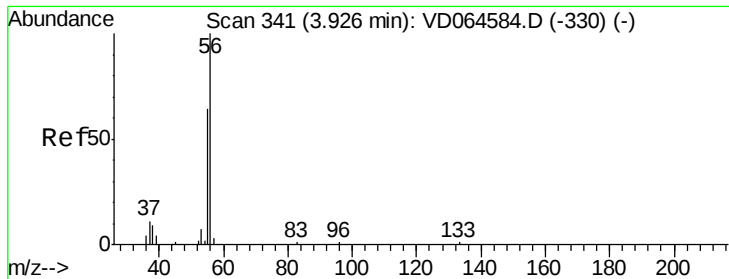
57 0.0 9.3 13.9#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#13

Acrolein

Concen: 4.443 ug/l

RT: 3.93 min Scan# 341

Delta R.T. 0.00 min

Lab File: VD064603.D

Acq: 26 Dec 2019 17:04

Instrument :

MSVOA_D

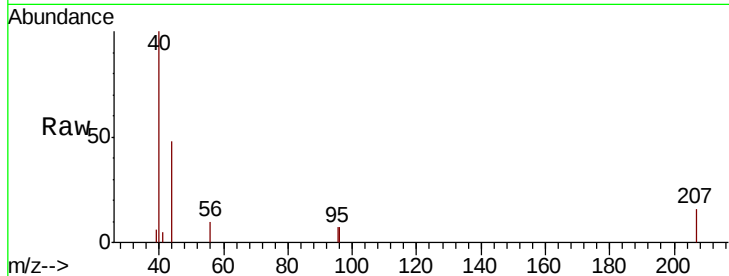
ClientSampleId :

Tot Ion: 56 Resp: 375

Ion Ratio Lower Upper

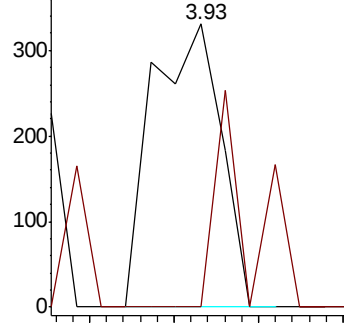
56 100

55 39.5 56.7 85.1#

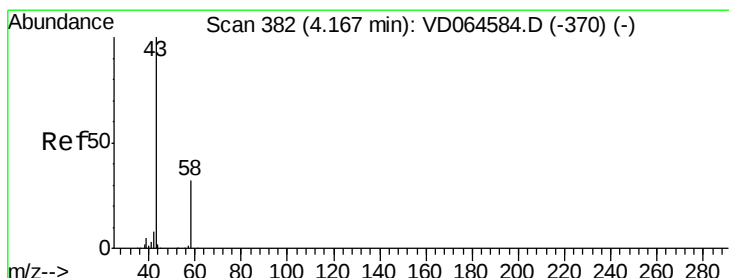
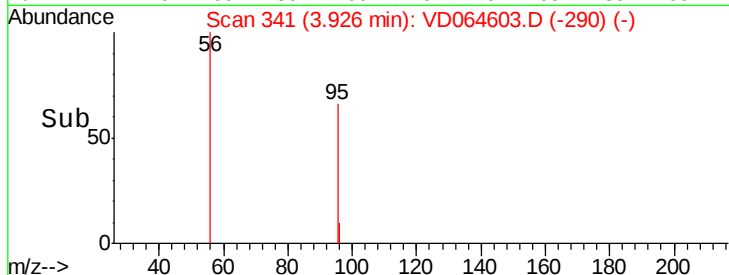


Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



Time-->



#16

Acetone

Concen: 607.520 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD064603.D

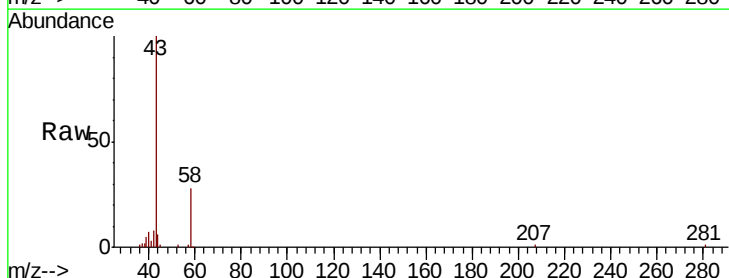
Acq: 26 Dec 2019 17:04

Tgt Ion: 43 Resp: 112533

Ion Ratio Lower Upper

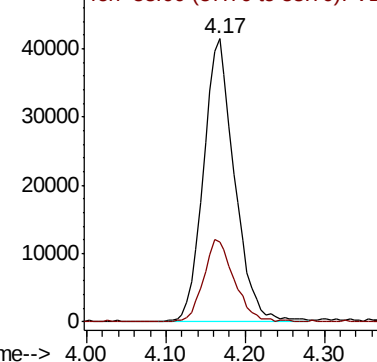
43 100

58 28.1 25.8 38.6

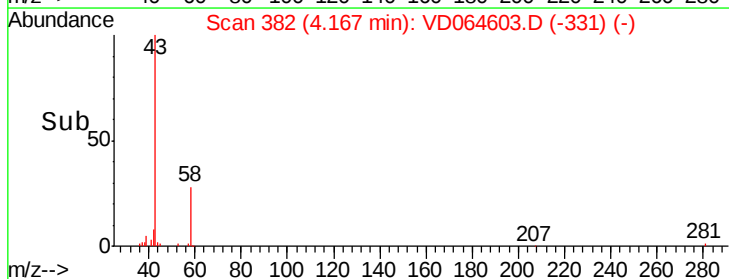


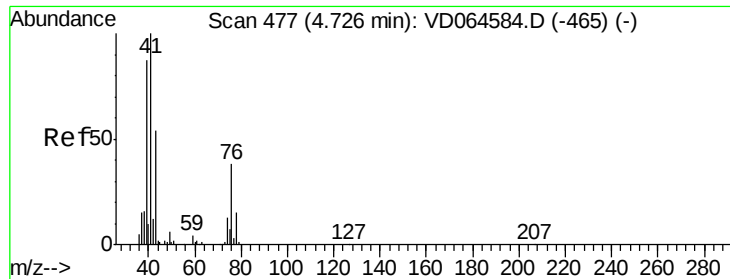
Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



Time-->

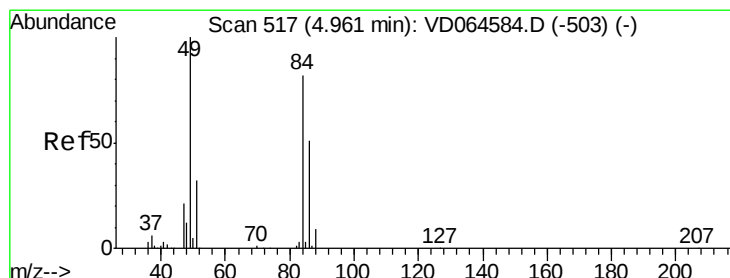
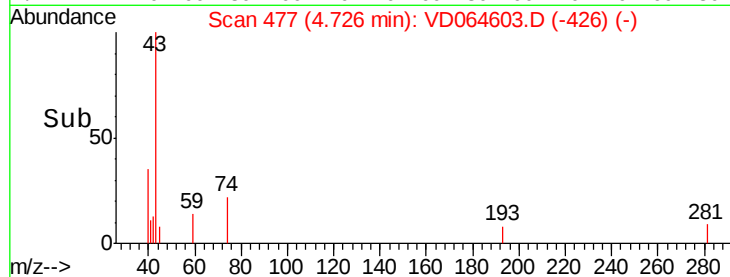
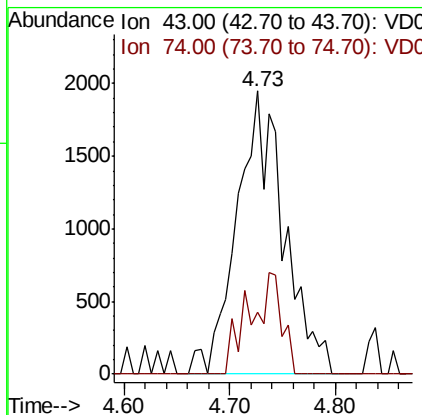
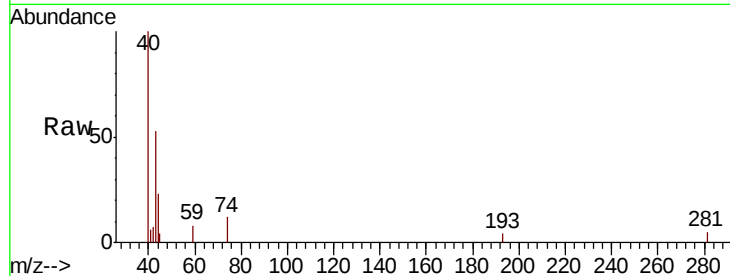




#18
Methyl Acetate
Concen: 10.132 ug/l
RT: 4.73 min Scan# 477
Delta R.T. 0.00 min
Lab File: VD064603.D
Acq: 26 Dec 2019 17:04

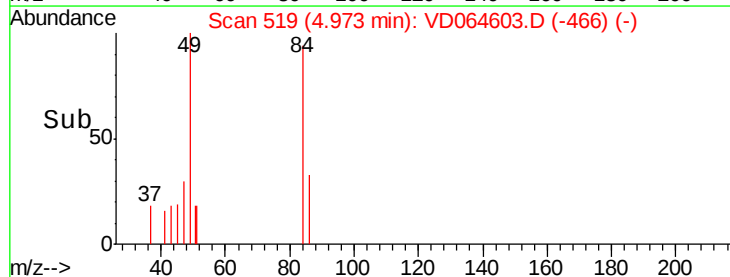
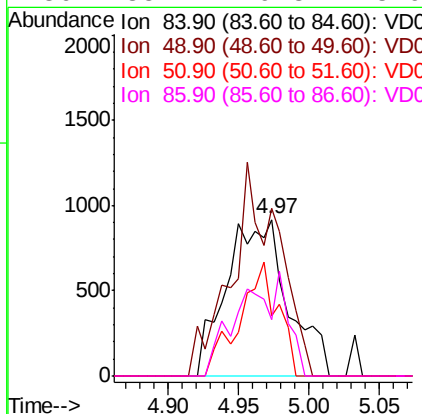
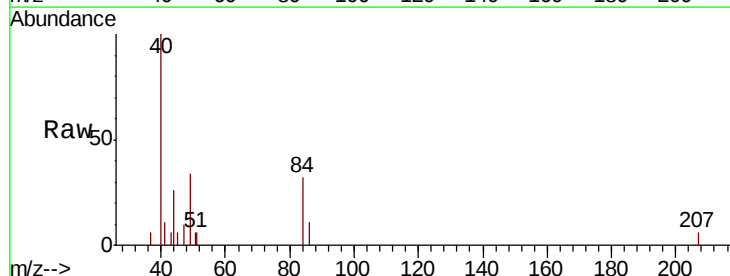
Instrument :
MSVOA_D
ClientSampleId :

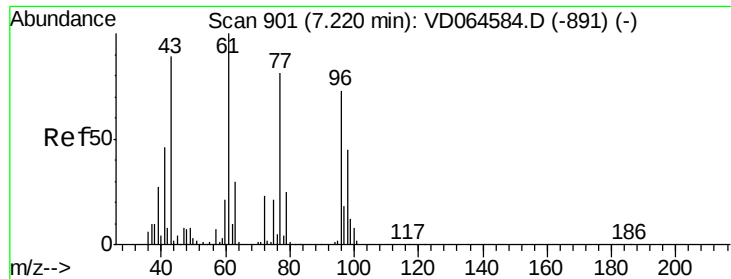
Tot Ion: 43 Resp: 6028
Ion Ratio Lower Upper
43 100
74 11.6 19.2 28.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.97 min Scan# 519
Delta R.T. 0.01 min
Lab File: VD064603.D
Acq: 26 Dec 2019 17:04

Tgt Ion: 84 Resp: 2804
Ion Ratio Lower Upper
84 100
49 106.9 97.2 145.8
51 38.5 31.4 47.0
86 35.7 49.3 73.9#

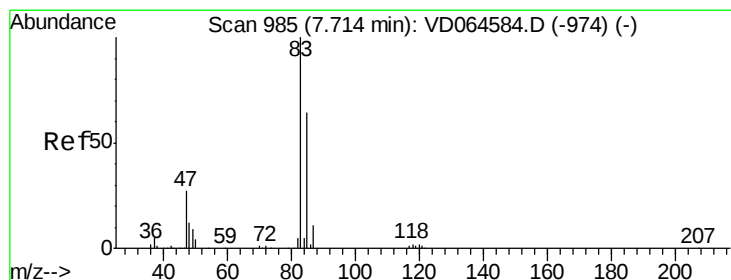
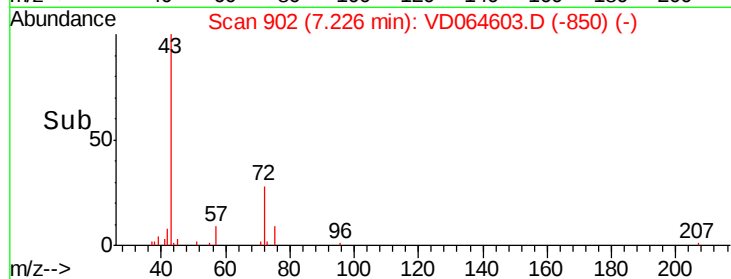
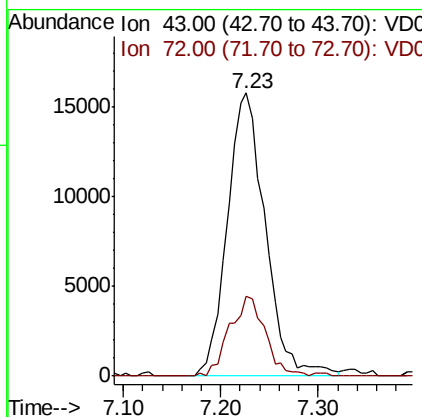
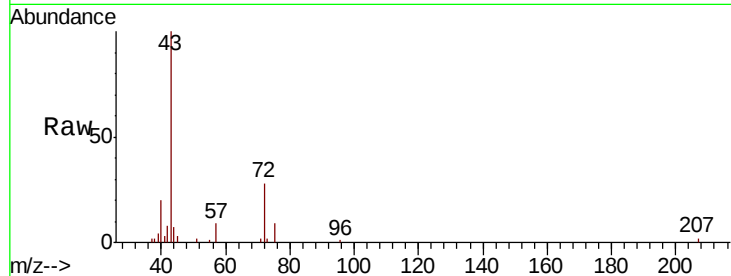




#25
2-Butanone
Concen: 146.880 ug/l
RT: 7.23 min Scan# 902
Delta R.T. 0.01 min
Lab File: VD064603.D
Acq: 26 Dec 2019 17:04

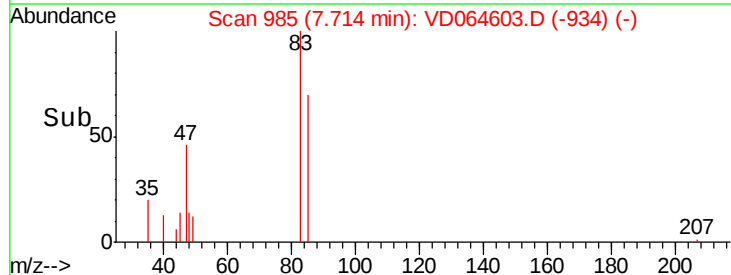
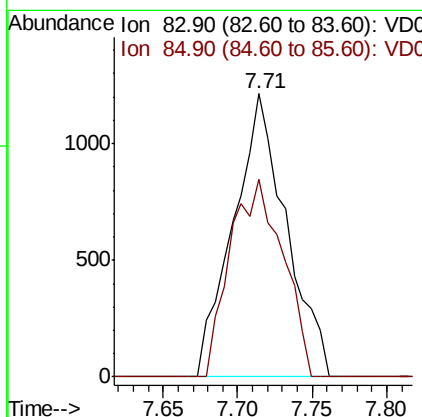
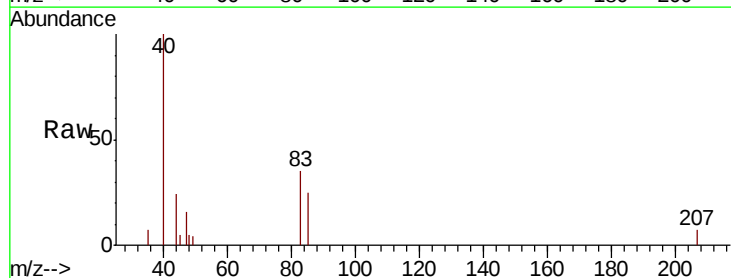
Instrument :
MSVOA_D
ClientSampleId :

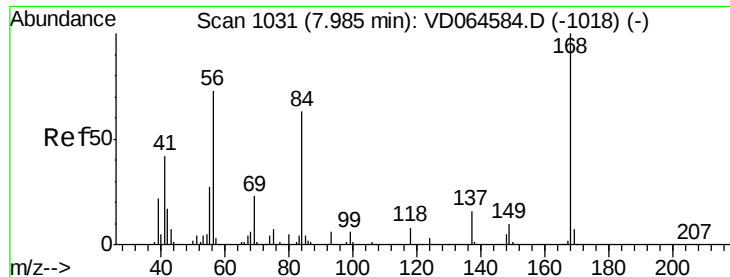
Tot Ion: 43 Resp: 42665
Ion Ratio Lower Upper
43 100
72 28.2 20.7 31.1



#30
Chloroform
Concen: 1.446 ug/l
RT: 7.71 min Scan# 985
Delta R.T. 0.00 min
Lab File: VD064603.D
Acq: 26 Dec 2019 17:04

Tgt Ion: 83 Resp: 2986
Ion Ratio Lower Upper
83 100
85 69.9 51.1 76.7





#31

Cyclohexane

Concen: 1.250 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD064603.D

Acq: 26 Dec 2019 17:04

Instrument :

MSVOA_D

ClientSampleId :

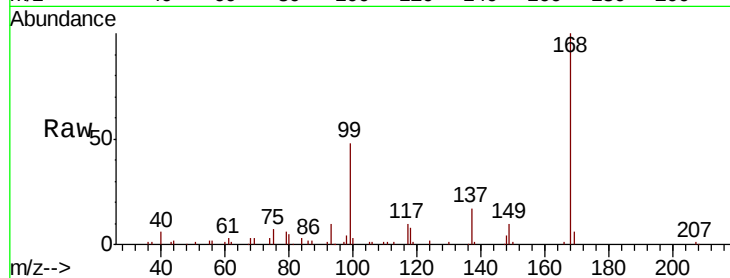
Tot Ion: 56 Resp: 2462

Ion Ratio Lower Upper

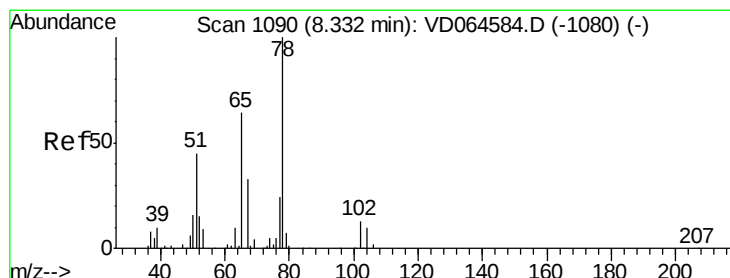
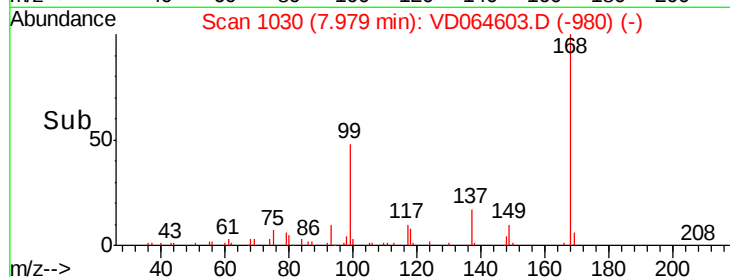
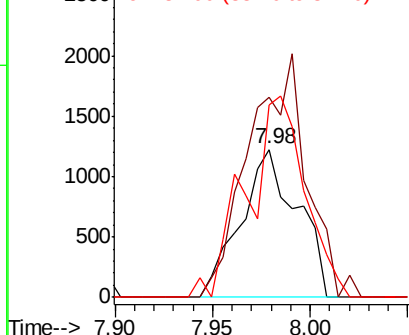
56 100

69 134.6 24.7 37.1#

84 129.7 69.4 104.2#



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: 68.309 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064603.D

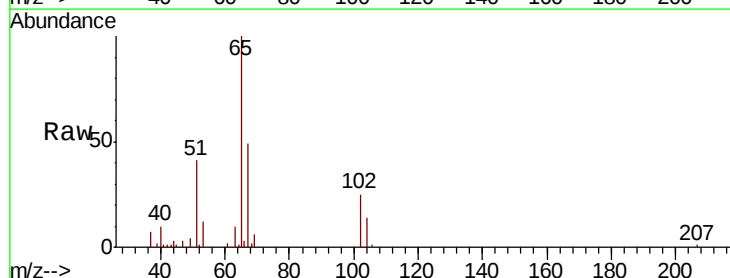
Acq: 26 Dec 2019 17:04

Tgt Ion: 65 Resp: 72186

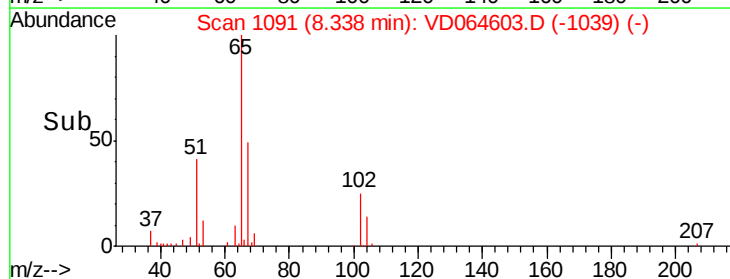
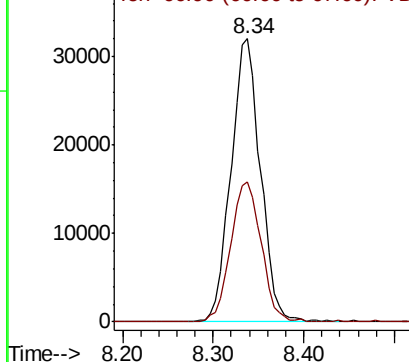
Ion Ratio Lower Upper

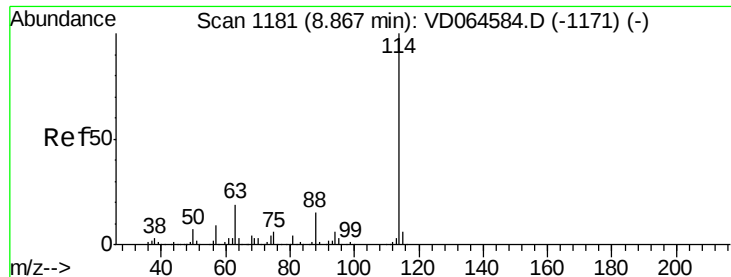
65 100

67 51.2 0.0 106.2



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

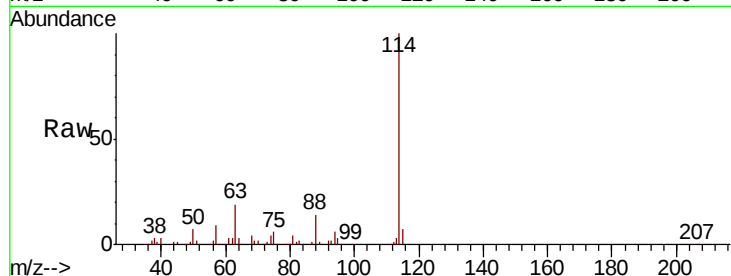




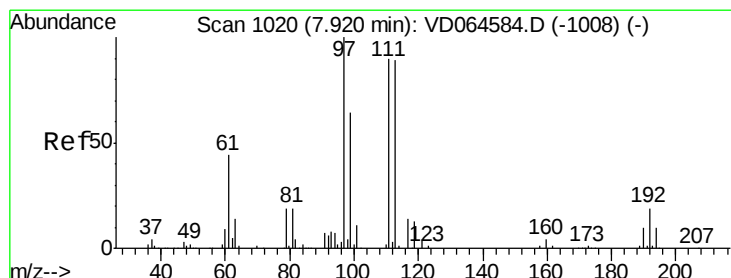
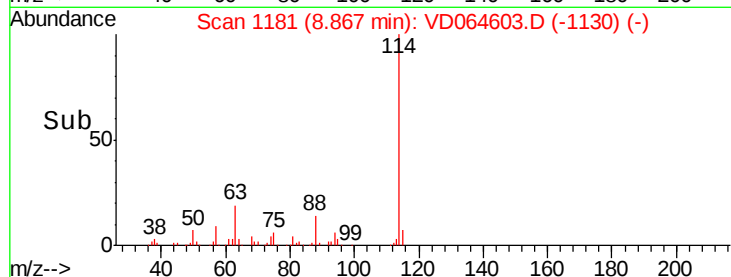
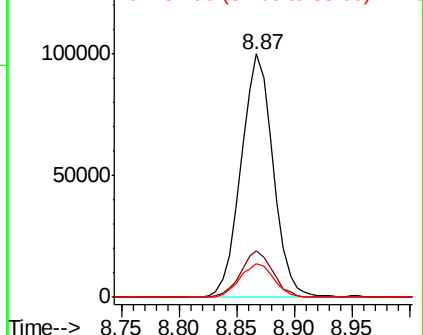
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.87 min Scan# 1181
 Delta R.T. 0.00 min
 Lab File: VD064603.D
 Acq: 26 Dec 2019 17:04

Instrument :
 MSVOA_D
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.0	0.0	38.0
88	13.8	0.0	29.2

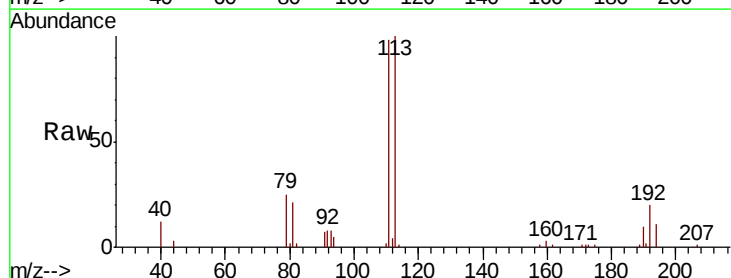


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

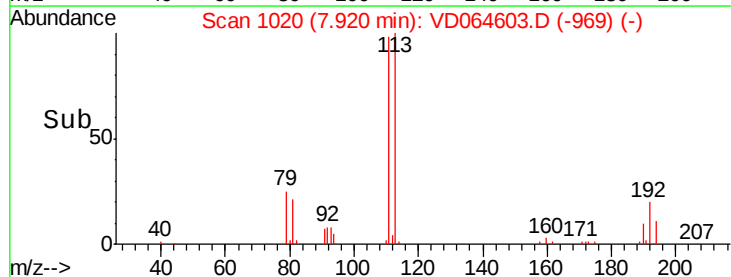
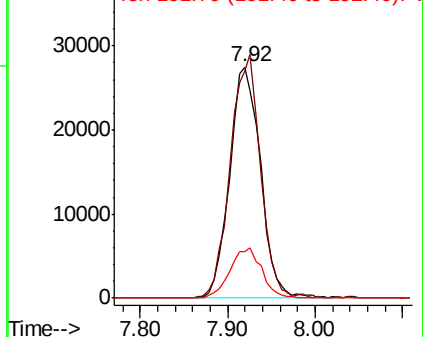


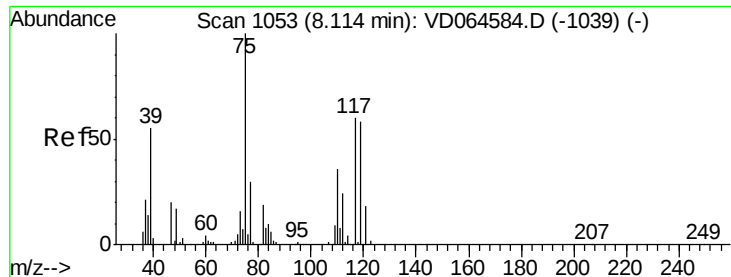
#35
 Dibromofluoromethane
 Concen: 55.689 ug/l
 RT: 7.92 min Scan# 1020
 Delta R.T. 0.00 min
 Lab File: VD064603.D
 Acq: 26 Dec 2019 17:04

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	80.6	121.0
192	22.1	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: 4.478 ug/l

RT: 7.98 min Scan# 1030

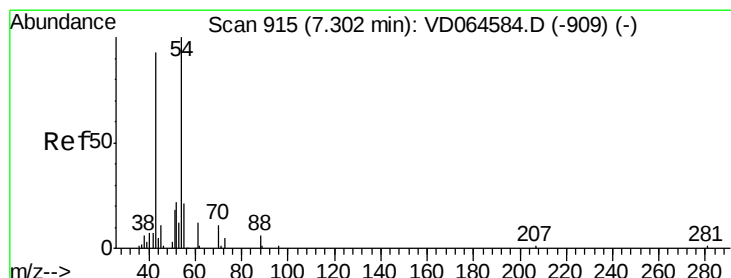
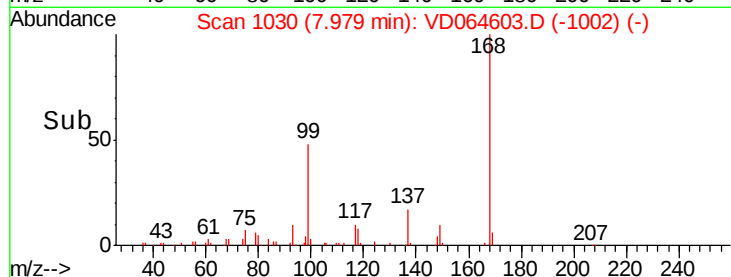
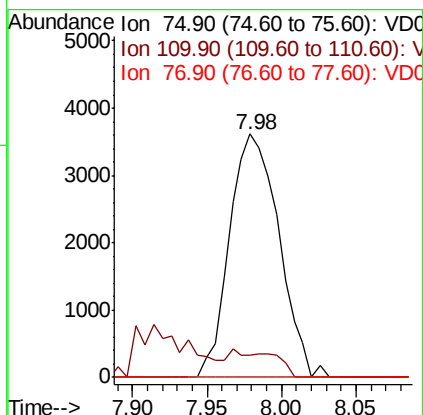
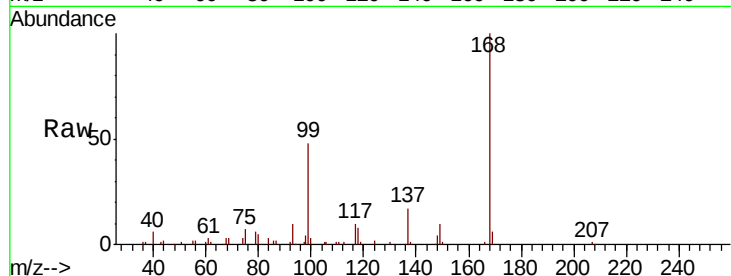
Delta R.T. -0.14 min

Lab File: VD064603.D

Acq: 26 Dec 2019 17:04

Instrument :
MSVOA_D
ClientSampleID :

Tot Ion:	75	Resp:	8304
Ion	Ratio	Lower	Upper
75	100		
110	1.5	18.1	54.1#
77	0.0	24.2	36.4#



#37

Ethyl Acetate

Concen: 58.563 ug/l

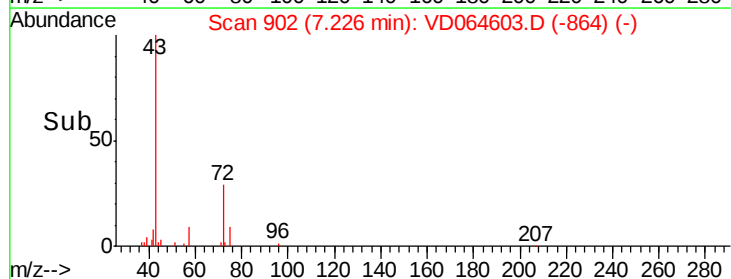
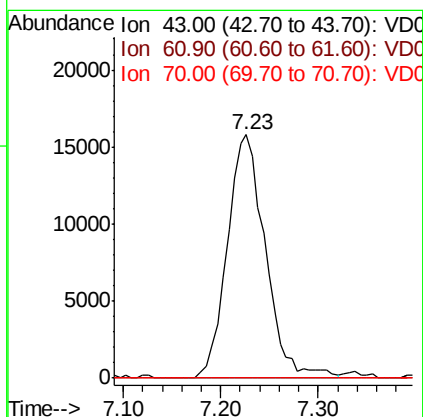
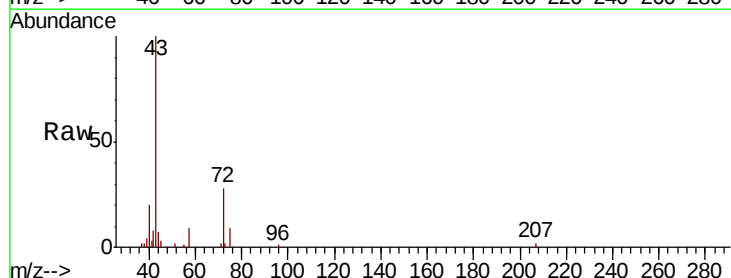
RT: 7.23 min Scan# 902

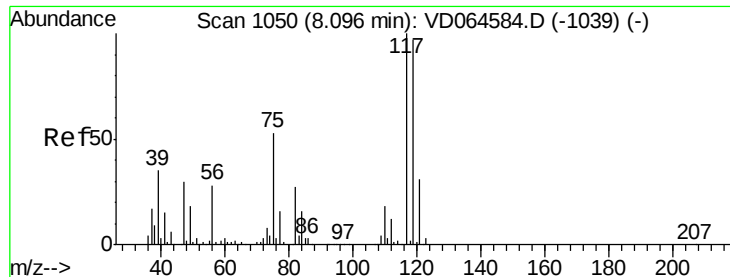
Delta R.T. -0.08 min

Lab File: VD064603.D

Acq: 26 Dec 2019 17:04

Tgt Ion:	43	Resp:	42665
Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.3	15.5#
70	0.0	7.6	11.4#





#38

Carbon Tetrachloride

Concen: 5.904 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD064603.D

Acq: 26 Dec 2019 17:04

Instrument :

MSVOA_D

ClientSampleId :

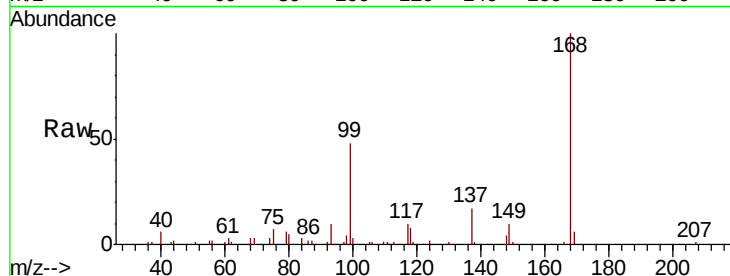
Tot Ion:117 Resp: 11675

Ion Ratio Lower Upper

117 100

119 5.9 77.3 115.9#

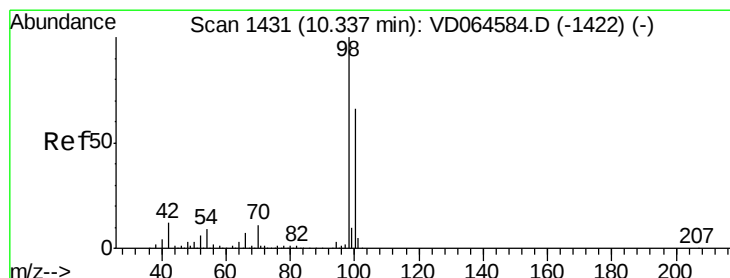
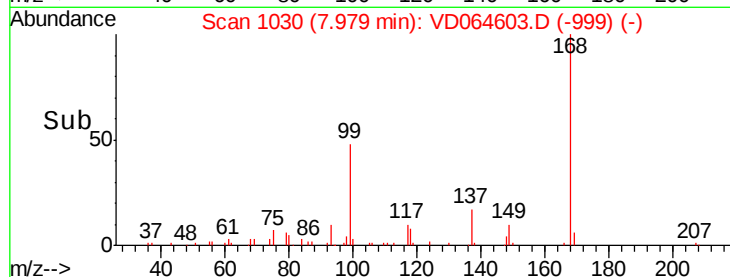
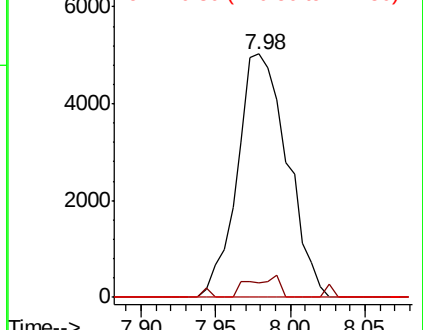
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 51.376 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD064603.D

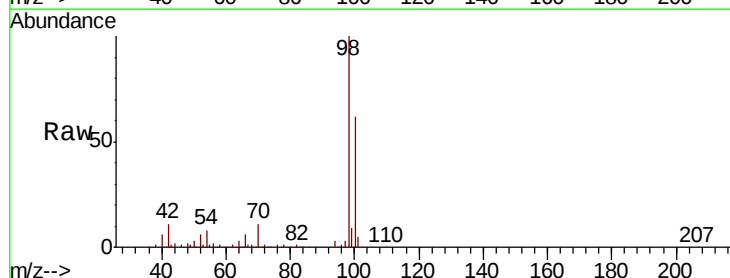
Acq: 26 Dec 2019 17:04

Tgt Ion: 98 Resp: 232594

Ion Ratio Lower Upper

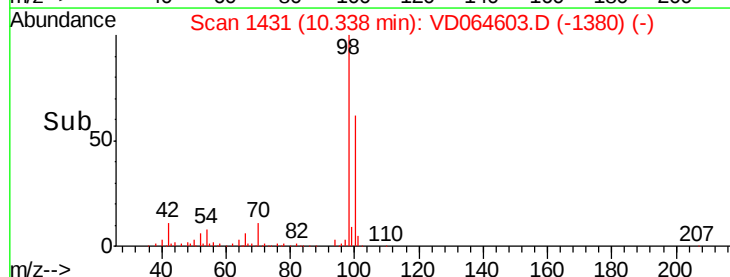
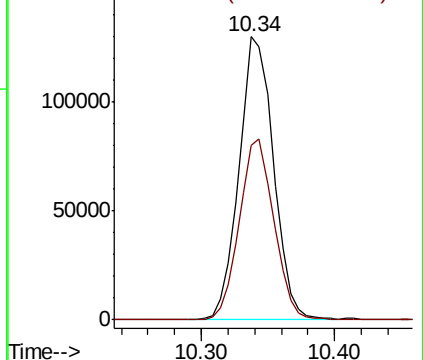
98 100

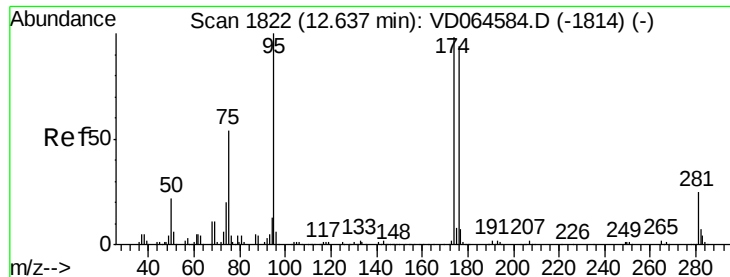
100 64.6 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

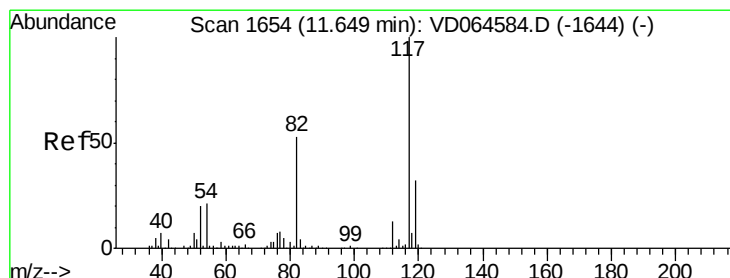
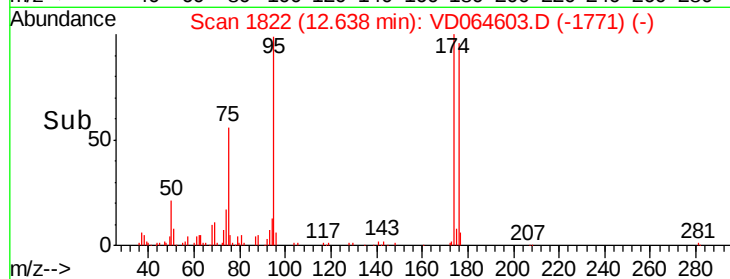
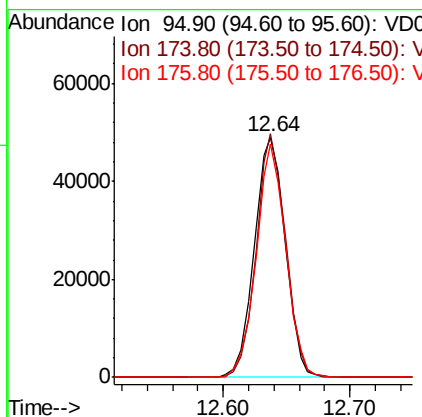
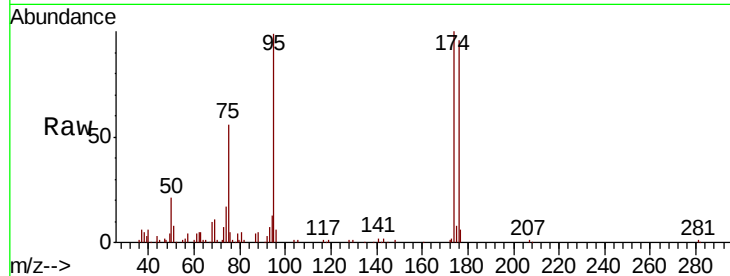




#62
4-Bromofluorobenzene
Concen: 58.102 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. 0.00 min
Lab File: VD064603.D
Acq: 26 Dec 2019 17:04

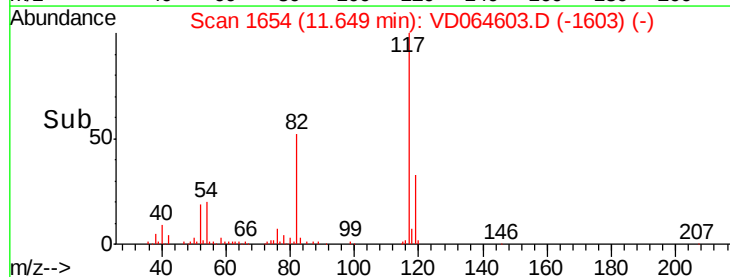
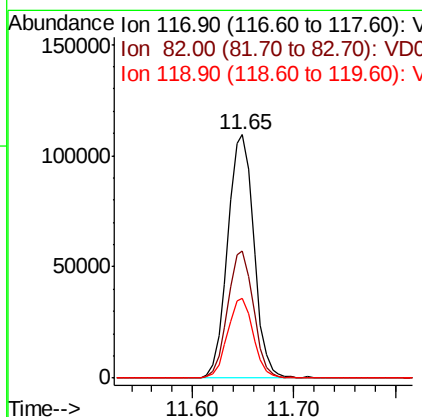
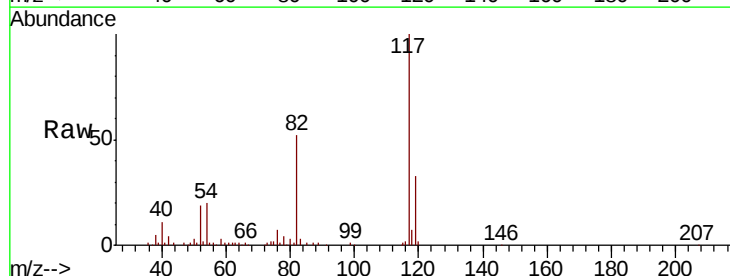
Instrument :
MSVOA_D
ClientSampleId :

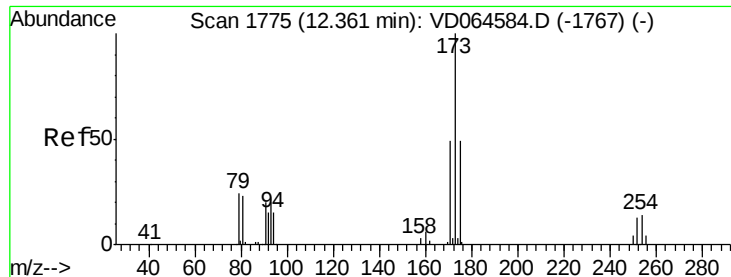
Tot Ion: 95 Resp: 83177
Ion Ratio Lower Upper
95 100
174 96.5 0.0 193.2
176 93.3 0.0 184.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VD064603.D
Acq: 26 Dec 2019 17:04

Tgt Ion: 117 Resp: 196536
Ion Ratio Lower Upper
117 100
82 52.2 42.2 63.4
119 32.6 26.0 39.0

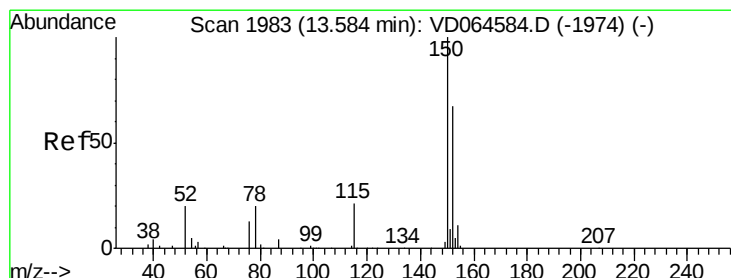
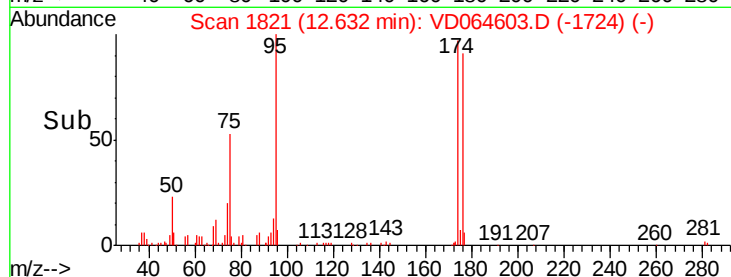
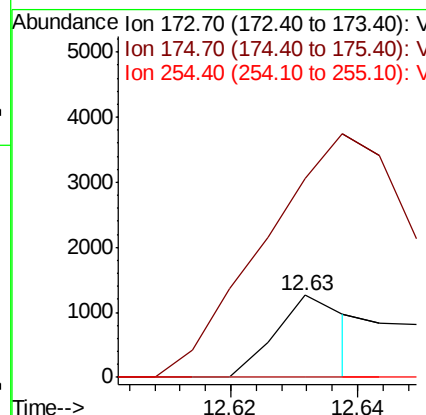
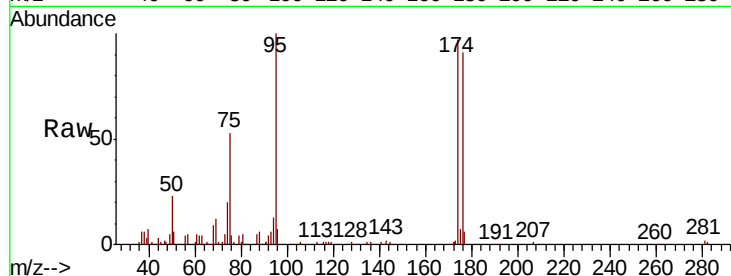




#71
Bromoform
Concen: 1.110 ug/l
RT: 12.63 min Scan# 1821
Delta R.T. 0.27 min
Lab File: VD064603.D
Acq: 26 Dec 2019 17:04

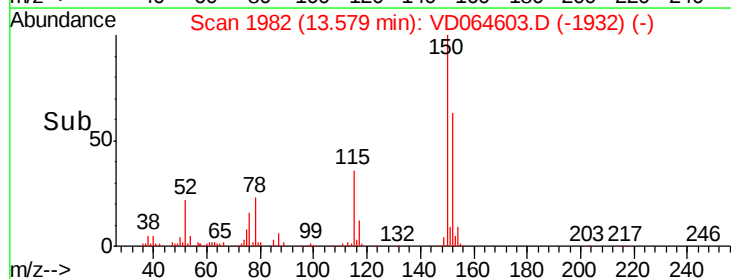
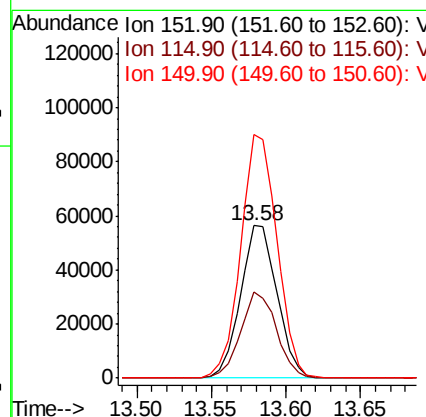
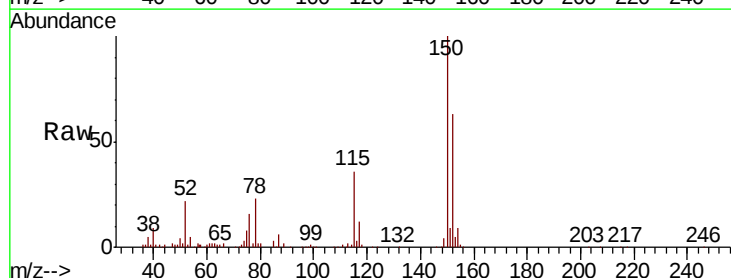
Instrument :
MSVOA_D
ClientSampleId :

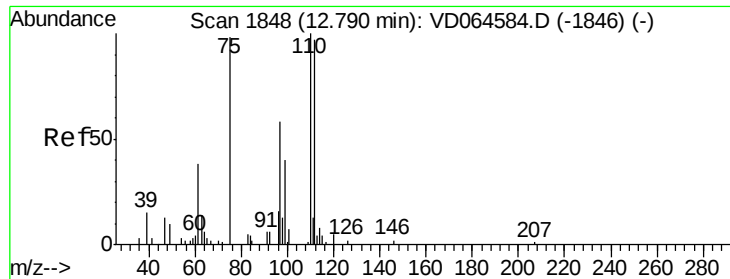
Tot Ion:173 Resp: 973
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1982
Delta R.T. -0.01 min
Lab File: VD064603.D
Acq: 26 Dec 2019 17:04

Tgt Ion:152 Resp: 95320
Ion Ratio Lower Upper
152 100
115 55.6 27.8 83.4
150 159.1 0.0 351.4





#76

1,2,3-Trichloropropane

Concen: 58.577 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD064603.D

Acq: 26 Dec 2019 17:04

Instrument :

MSVOA_D

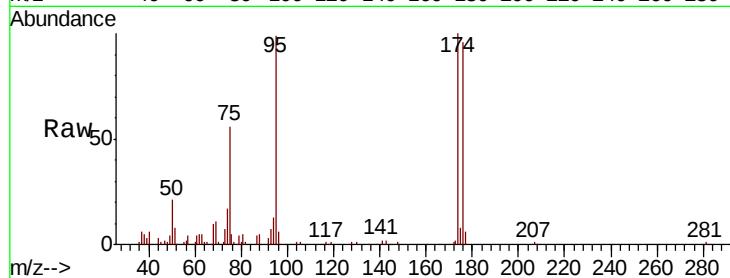
ClientSampleId :

Tot Ion: 75 Resp: 44091

Ion Ratio Lower Upper

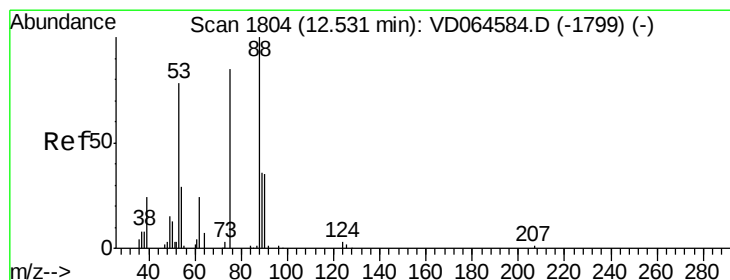
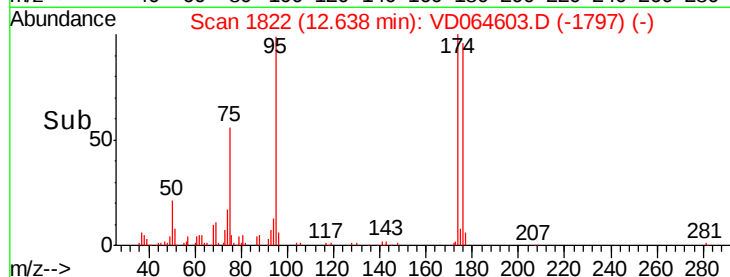
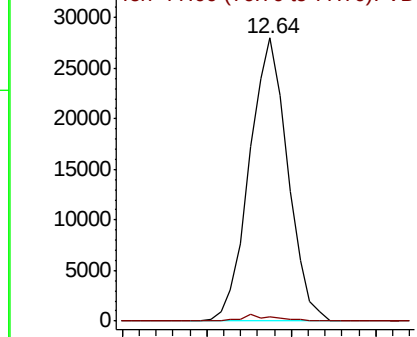
75 100

77 2.1 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: 122.511 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD064603.D

Acq: 26 Dec 2019 17:04

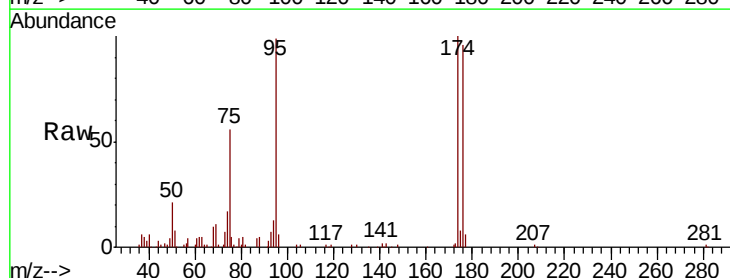
Tgt Ion: 75 Resp: 44091

Ion Ratio Lower Upper

75 100

53 0.0 78.8 118.2#

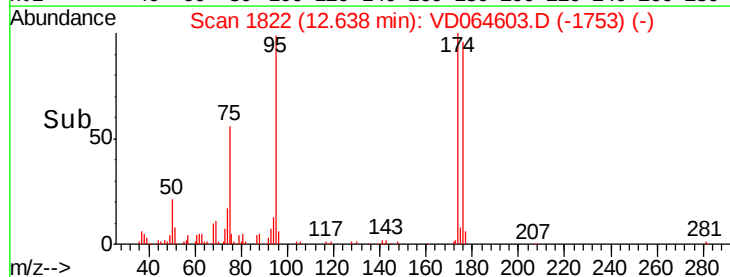
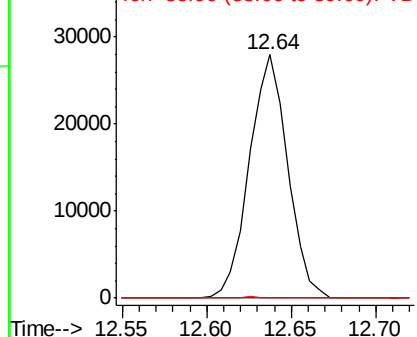
89 0.2 38.3 57.5#

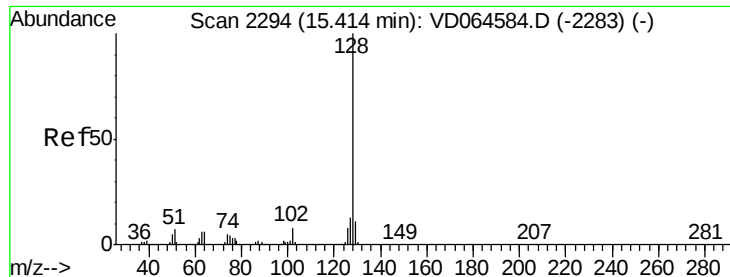


Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC





#95

Naphthalene

Concen: 23.935 ug/l

RT: 15.41 min Scan# 2293

Delta R.T. -0.01 min

Lab File: VD064603.D

Acq: 26 Dec 2019 17:04

Instrument :

MSVOA_D

ClientSampleId :

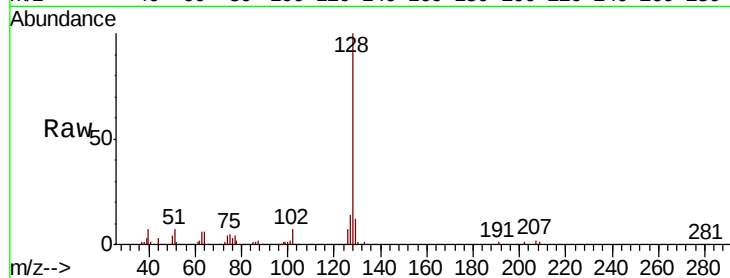
Tot Ion:128 Resp: 75856

Ion Ratio Lower Upper

128 100

127 14.4 10.3 15.5

129 11.5 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

