

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD033120\
 Data File : VD065570.D
 Acq On : 31 Mar 2020 17:12
 Operator : VA/SY
 Sample : L1759-16RE
 Misc : 7.71G/5.00ml/MSVOA D/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Apr 01 05:55:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D032620S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 27 01:47:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.98	168	506108	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.87	114	912979	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	932036	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	445607	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.34	65	269893	64.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.12%	
35) Dibromofluoromethane	7.92	113	302961	53.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.52%	
50) Toluene-d8	10.34	98	1126964	53.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.54%	
62) 4-Bromofluorobenzene	12.64	95	389769	58.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	116.10%	

Target Compounds

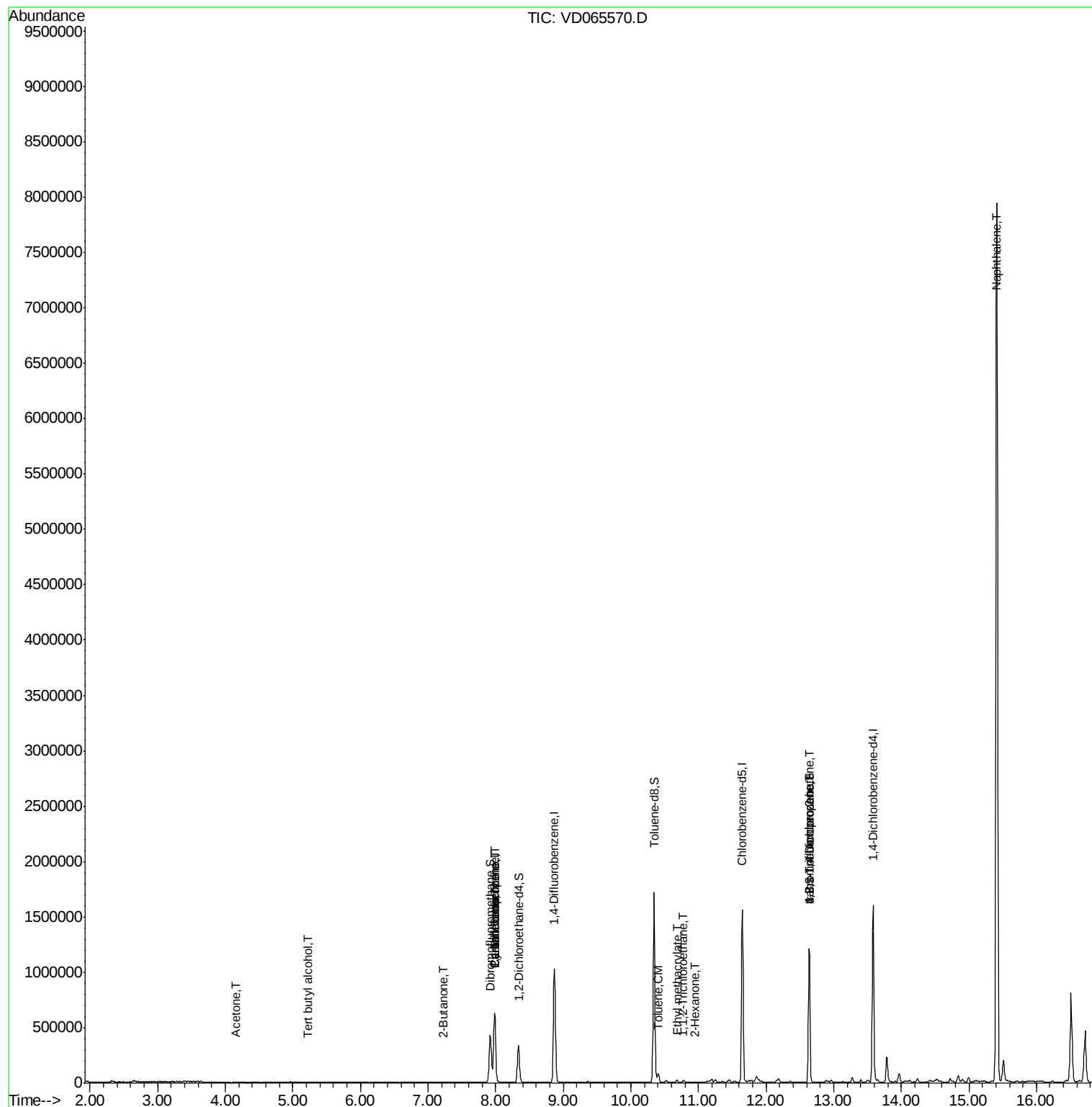
						Qvalue
2) Dichlorodifluoromethane	2.00	85	65	Below Cal	#	42
3) Chloromethane	2.21	50	412	Below Cal	#	42
5) Bromomethane	2.79	94	474	Below Cal	#	32
11) Tert butyl alcohol	5.23	59	289	1.220	ug/l #	73
16) Acetone	4.17	43	13316	16.751	ug/l	91
20) Methylene Chloride	4.96	84	6628	Below Cal	#	81
25) 2-Butanone	7.23	43	1528	1.415	ug/l #	48
31) Cyclohexane	7.98	56	8877	1.121	ug/l #	1
36) 1,1-Dichloropropene	7.98	75	33743	4.045	ug/l #	47
38) Carbon Tetrachloride	7.98	117	44977	5.119	ug/l #	18
52) Toluene	10.41	92	30048	1.993	ug/l	96
55) 1,1,2-Trichloroethane	10.78	97	7408	1.712	ug/l #	22
56) Ethyl methacrylate	10.68	69	2469	3.729	ug/l #	8
59) 2-Hexanone	10.96	43	2383	1.194	ug/l #	23
76) 1,2,3-Trichloropropane	12.64	75	186061	54.311	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.64	75	186061	121.232	ug/l #	13
95) Naphthalene	15.41	128	7049519	472.226	ug/l	99

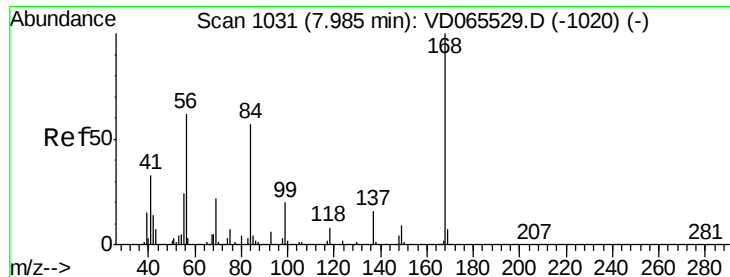
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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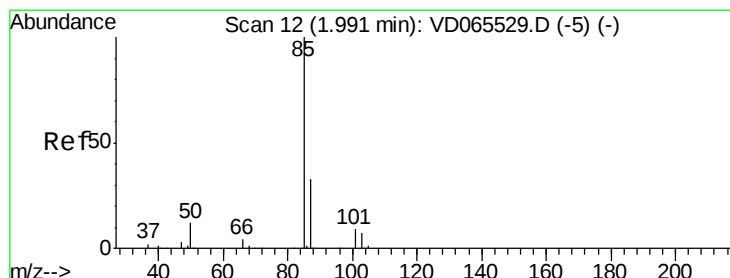
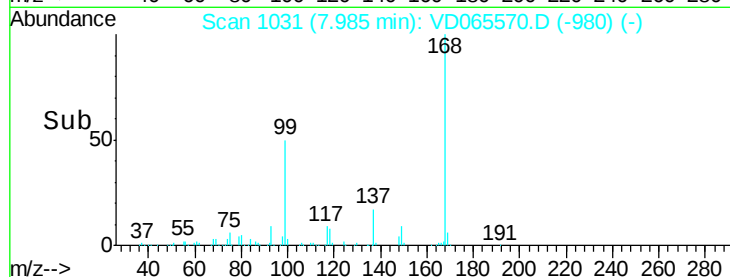
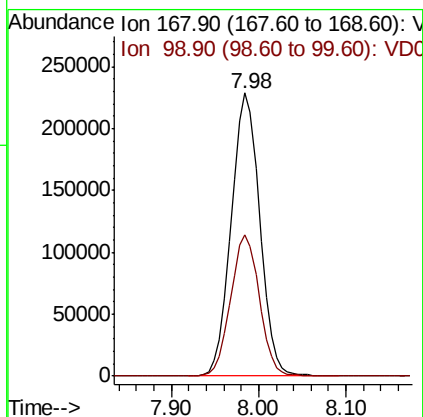
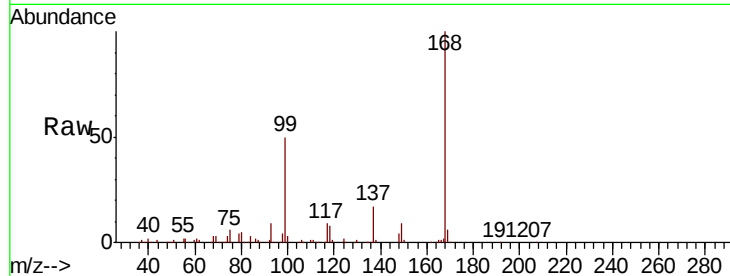




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

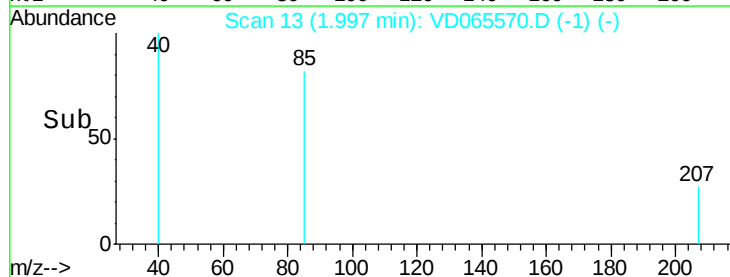
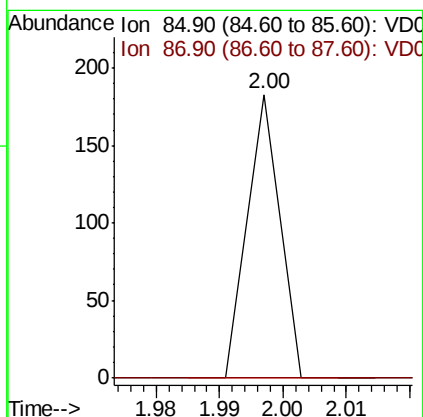
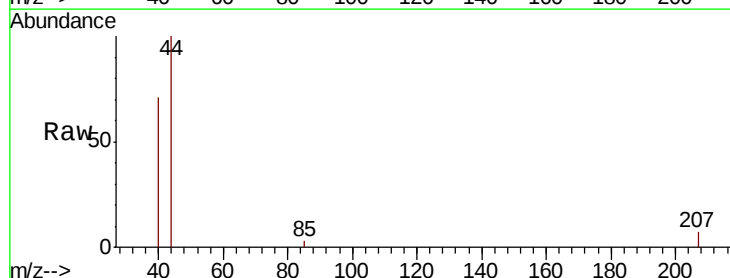
Instrument :
MSVOA_D
ClientSampleId :

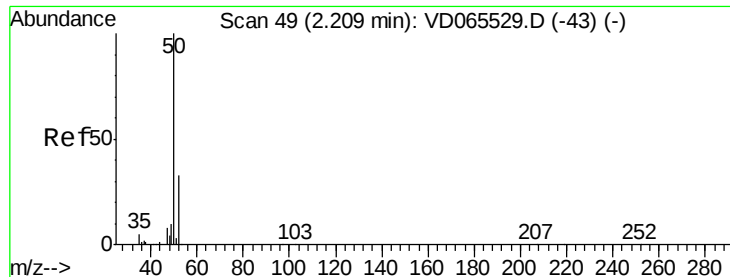
Tot Ion:168 Resp: 506108
Ion Ratio Lower Upper
168 100
99 50.0 39.1 58.7



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 2.00 min Scan# 13
Delta R.T. 0.01 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Tgt Ion: 85 Resp: 65
Ion Ratio Lower Upper
85 100
87 0.0 16.4 49.2#





#3

Chloromethane

Concen: Below Cal

RT: 2.21 min Scan# 49

Delta R.T. 0.00 min

Lab File: VD065570.D

Acq: 31 Mar 2020 17:12

Instrument :

MSVOA_D

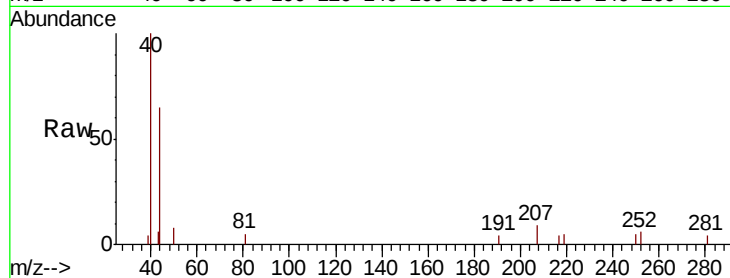
ClientSampleId :

Tot Ion: 50 Resp: 412

Ion Ratio Lower Upper

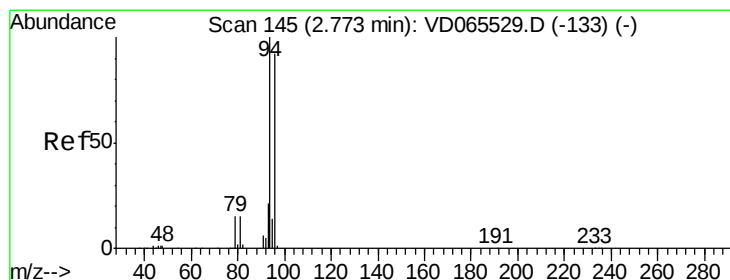
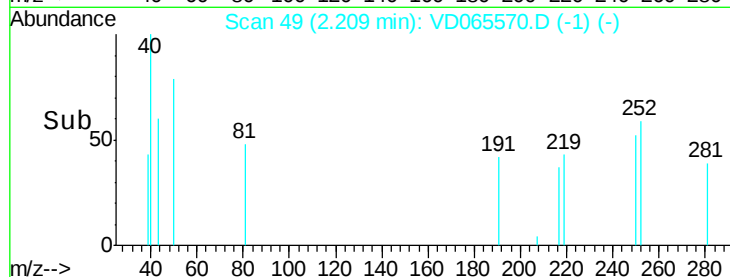
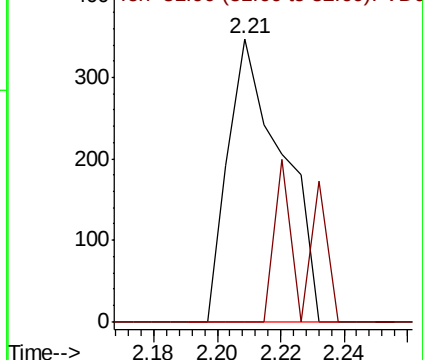
50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VDC

Ion 51.90 (51.60 to 52.60): VDC



#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD065570.D

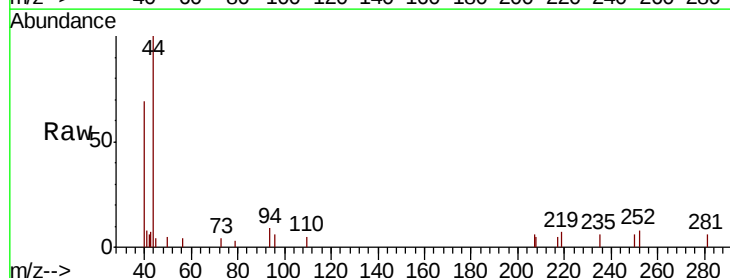
Acq: 31 Mar 2020 17:12

Tgt Ion: 94 Resp: 474

Ion Ratio Lower Upper

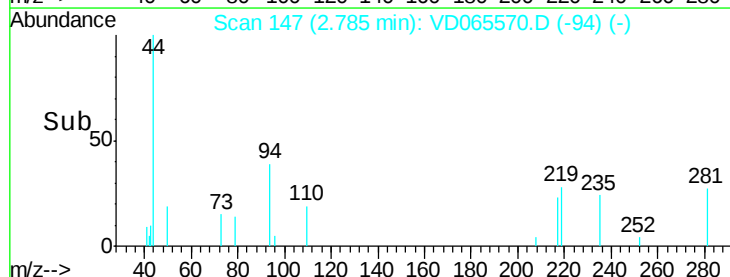
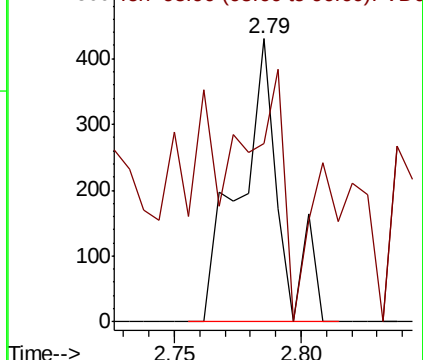
94 100

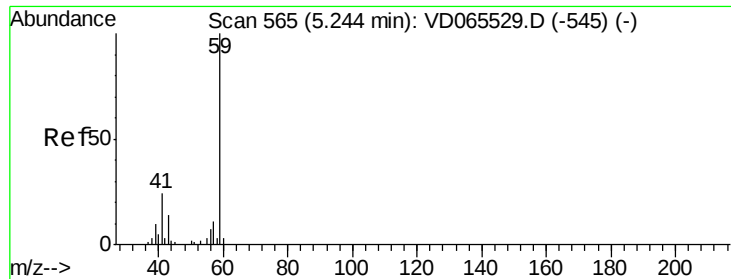
96 27.4 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

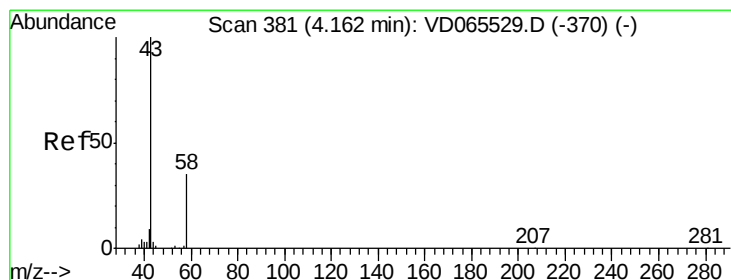
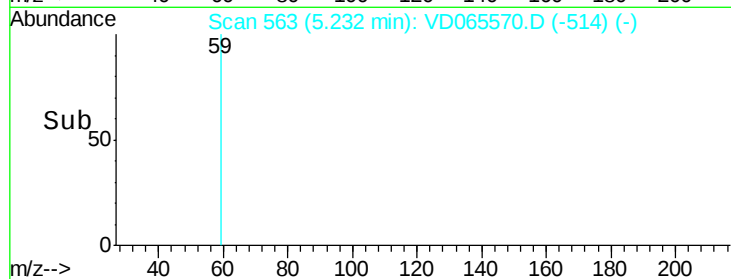
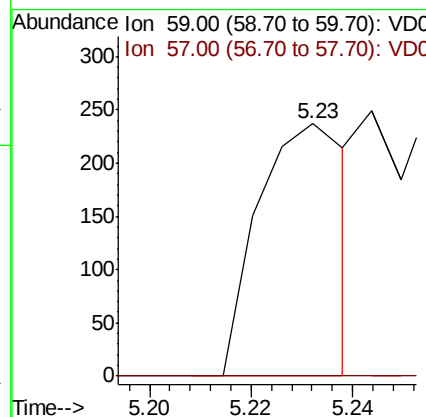
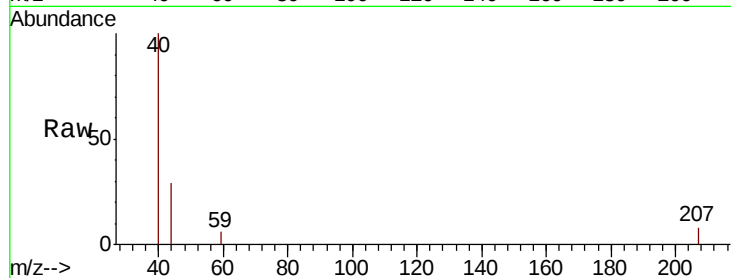




#11
Tert butyl alcohol
Concen: 1.220 ug/l
RT: 5.23 min Scan# 563
Delta R.T. -0.01 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

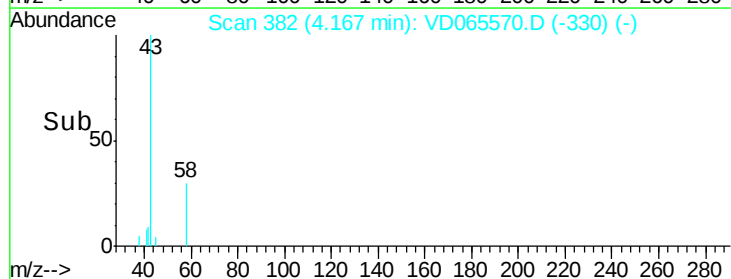
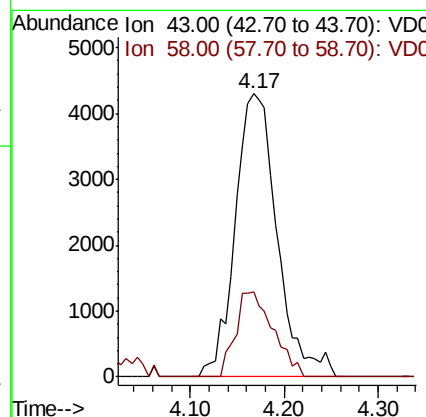
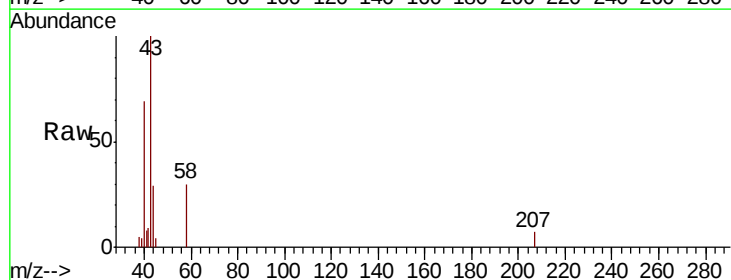
Instrument :
MSVOA_D
ClientSampled :

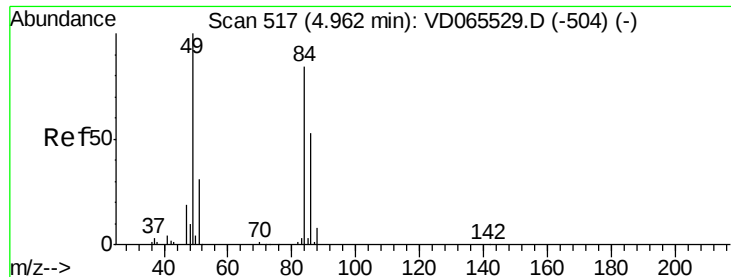
Tot Ion: 59 Resp: 289
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 16.751 ug/l
RT: 4.17 min Scan# 382
Delta R.T. 0.01 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Tgt Ion: 43 Resp: 13316
Ion Ratio Lower Upper
43 100
58 29.9 27.9 41.9

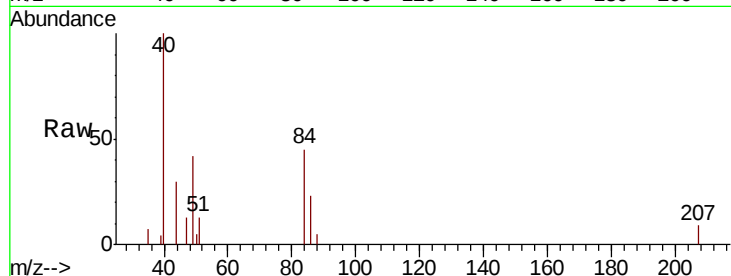




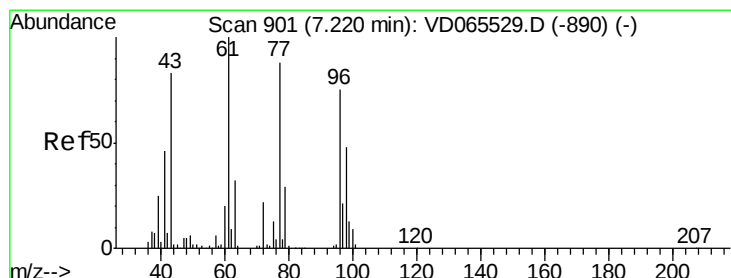
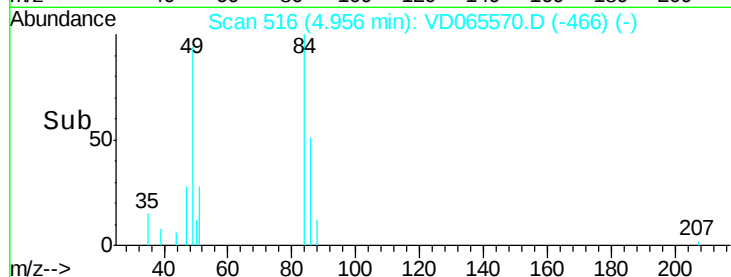
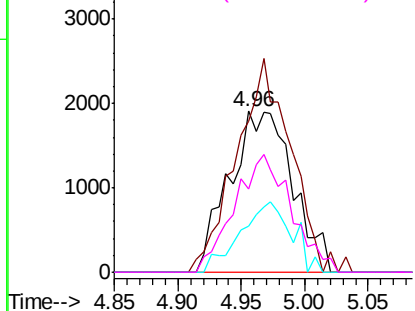
#20
Methvlene Chloride
Concen: Below Cal
RT: 4.96 min Scan# 516
Delta R.T. -0.01 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion: 84 Resp: 6628
Ion Ratio Lower Upper
84 100
49 93.8 95.6 143.4#
51 28.3 29.4 44.2#
86 51.4 50.6 76.0

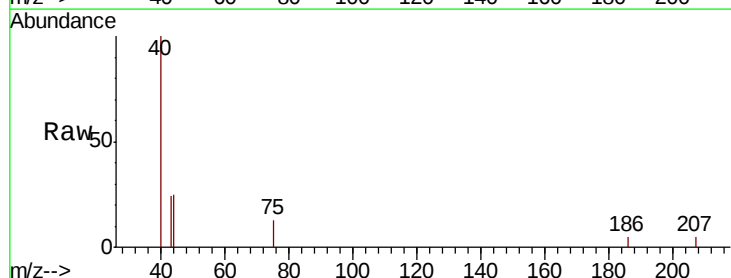


Abundance Ion 83.90 (83.60 to 84.60): VDC
Ion 48.90 (48.60 to 49.60): VDC
Ion 50.90 (50.60 to 51.60): VDC
Ion 85.90 (85.60 to 86.60): VDC

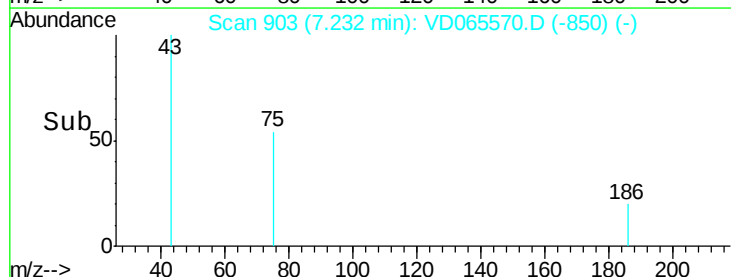
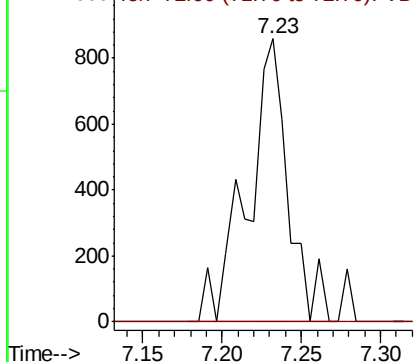


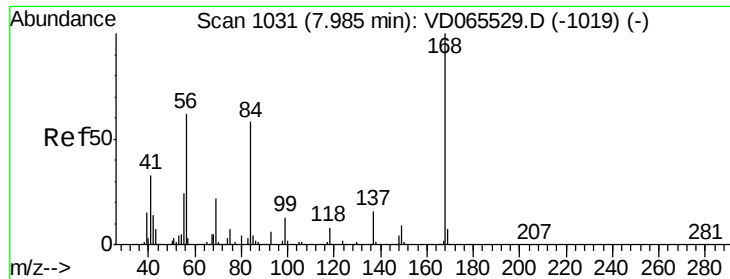
#25
2-Butanone
Concen: 1.415 ug/l
RT: 7.23 min Scan# 903
Delta R.T. 0.01 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Tgt Ion: 43 Resp: 1528
Ion Ratio Lower Upper
43 100
72 0.0 21.5 32.3#



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

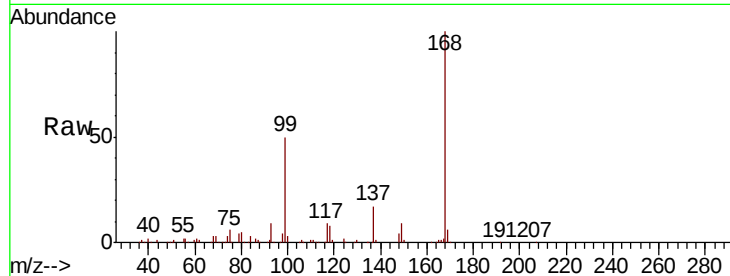




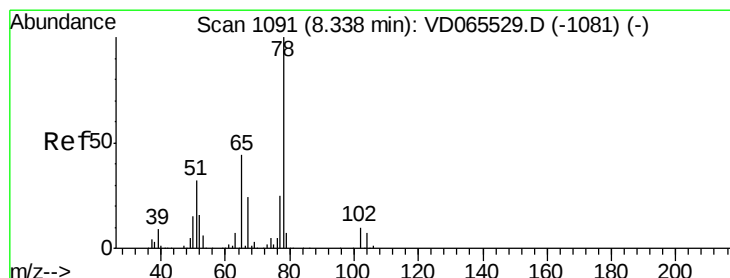
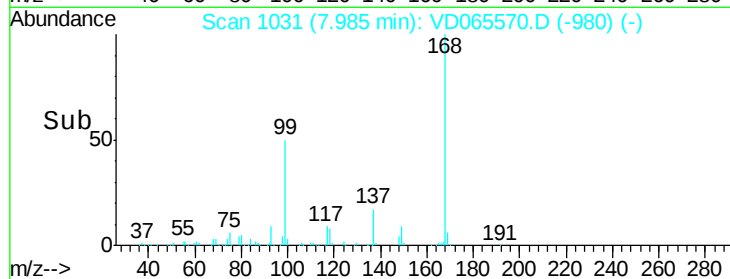
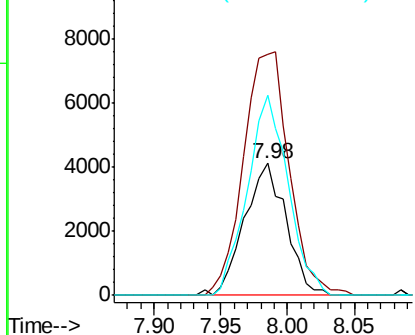
#31
Cyclohexane
Concen: 1.121 ug/l
RT: 7.98 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Instrument :
MSVOA_D
ClientSampled :

Tot Ion: 56 Resp: 8877
Ion Ratio Lower Upper
56 100
69 183.0 28.2 42.4#
84 151.2 73.4 110.0#

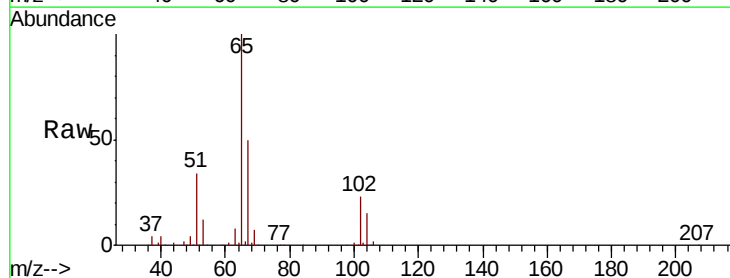


Abundance Ion 56.00 (55.70 to 56.70): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.00 (83.70 to 84.70): VDC

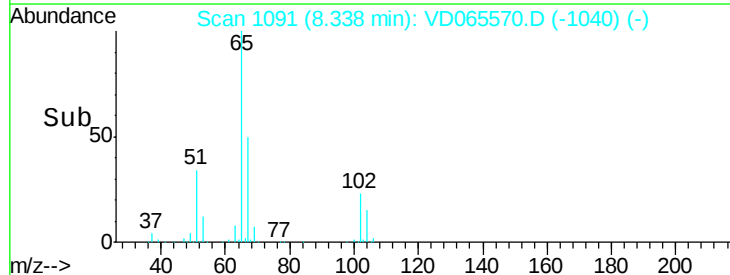
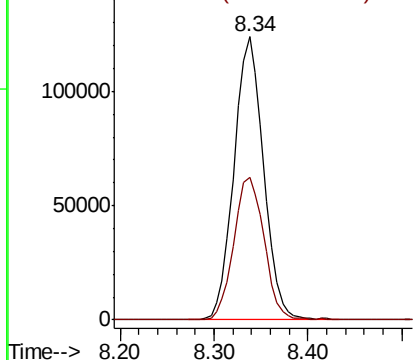


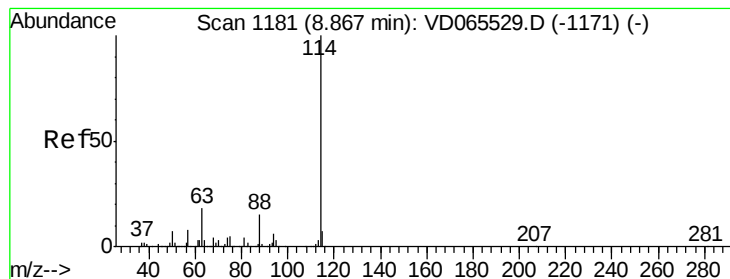
#33
1,2-Dichloroethane-d4
Concen: 64.062 ug/l
RT: 8.34 min Scan# 1091
Delta R.T. -0.00 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Tgt Ion: 65 Resp: 269893
Ion Ratio Lower Upper
65 100
67 51.8 0.0 107.6



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: VD065570.D

Acq: 31 Mar 2020 17:12

Instrument :

MSVOA_D

ClientSampleId :

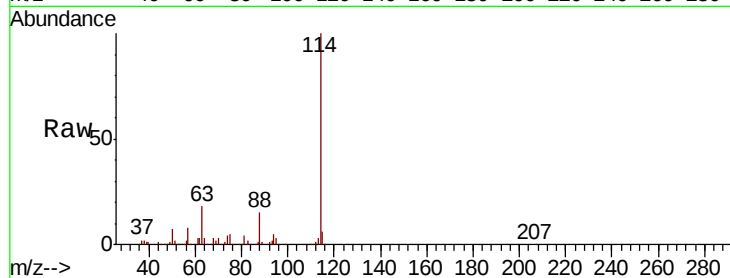
Tot Ion:114 Resp: 912979

Ion Ratio Lower Upper

114 100

63 18.5 0.0 37.0

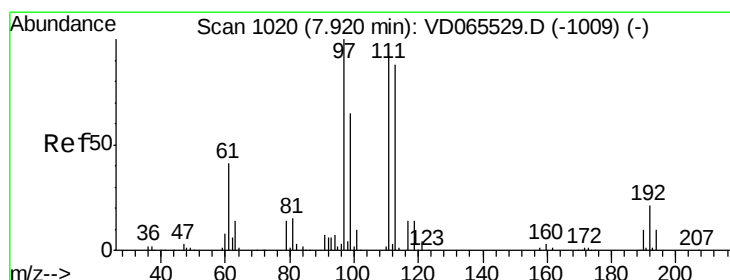
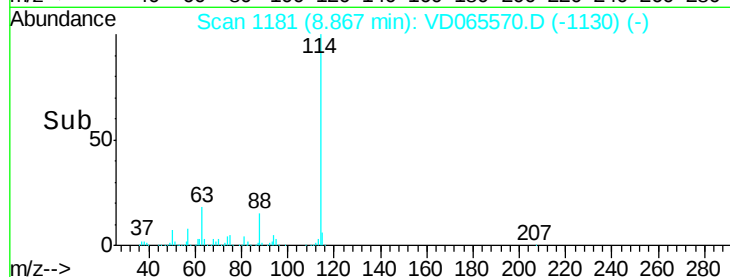
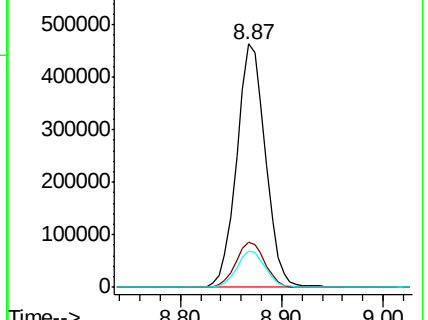
88 14.8 0.0 30.4



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: 53.761 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. -0.00 min

Lab File: VD065570.D

Acq: 31 Mar 2020 17:12

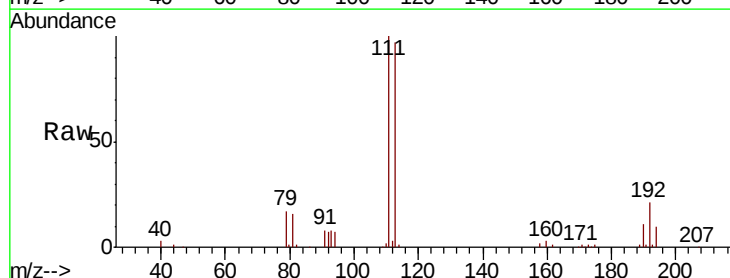
Tgt Ion:113 Resp: 302961

Ion Ratio Lower Upper

113 100

111 103.6 83.3 124.9

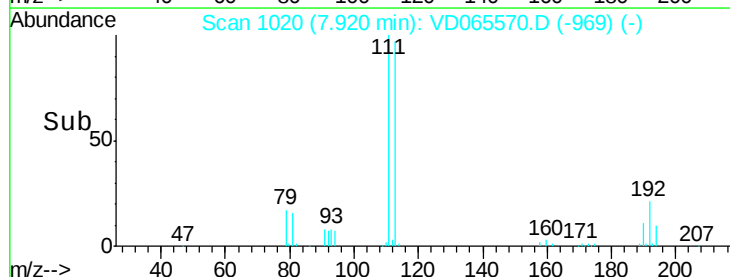
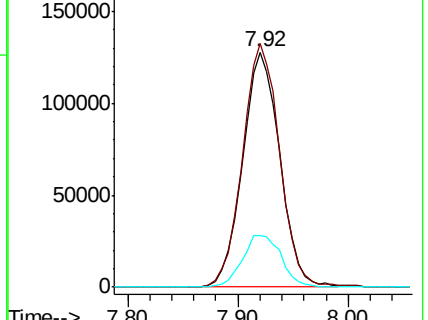
192 23.2 18.5 27.7

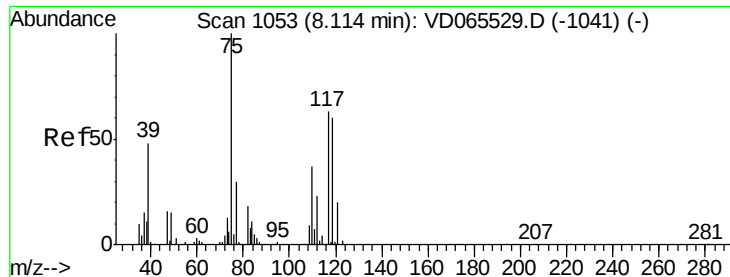


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

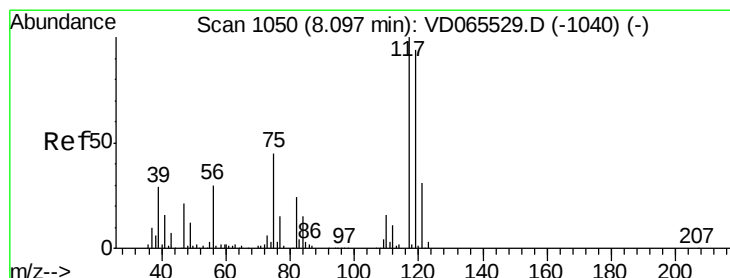
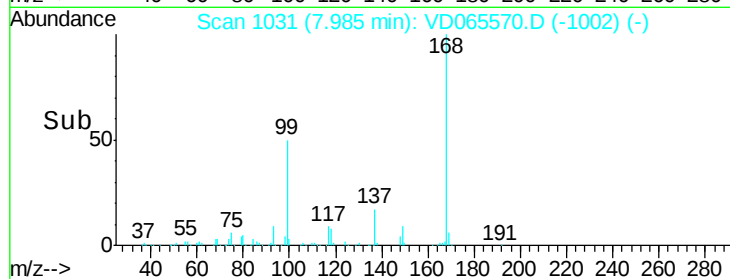
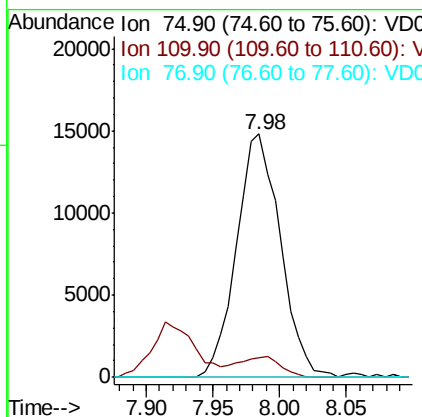
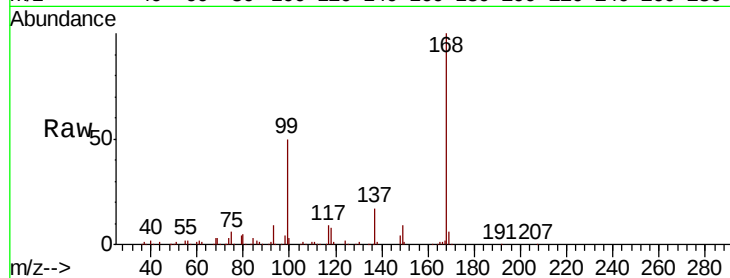




#36
 1,1-Dichloropropene
 Concen: 4.045 ug/l
 RT: 7.98 min Scan# 1031
 Delta R.T. -0.13 min
 Lab File: VD065570.D
 Acq: 31 Mar 2020 17:12

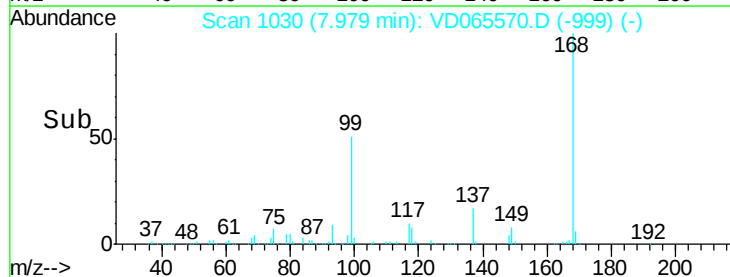
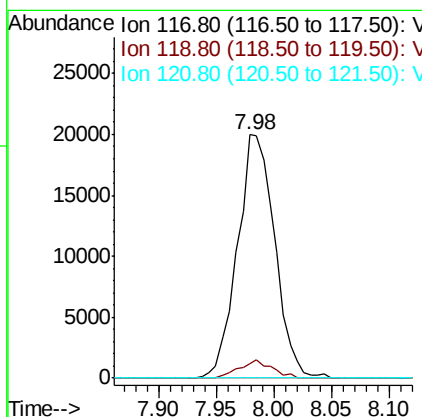
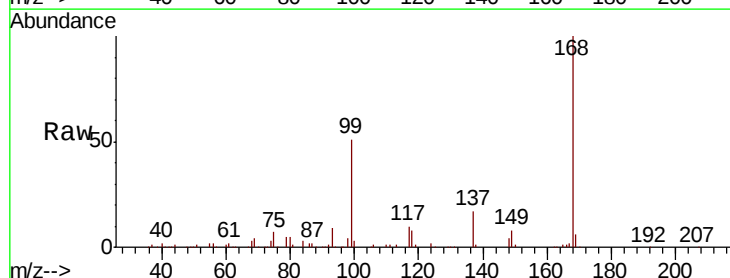
Instrument :
 MSVOA_D
 ClientSampleId :

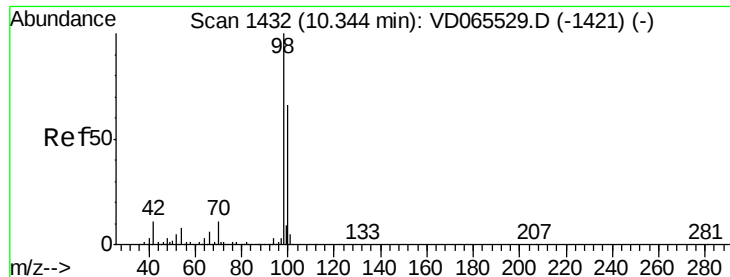
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.8	18.8	56.4#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 5.119 ug/l
 RT: 7.98 min Scan# 1030
 Delta R.T. -0.12 min
 Lab File: VD065570.D
 Acq: 31 Mar 2020 17:12

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.2	75.2	112.8#
121	0.0	24.5	36.7#

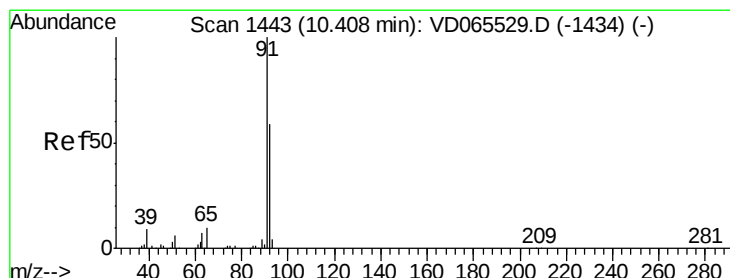
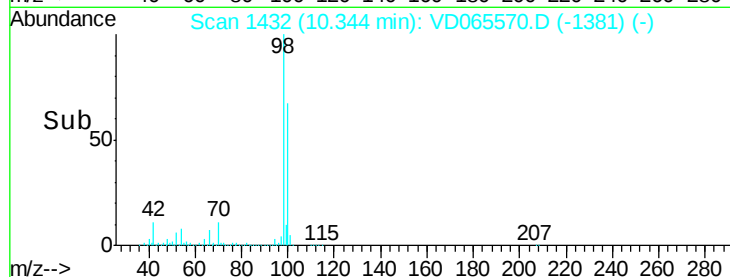
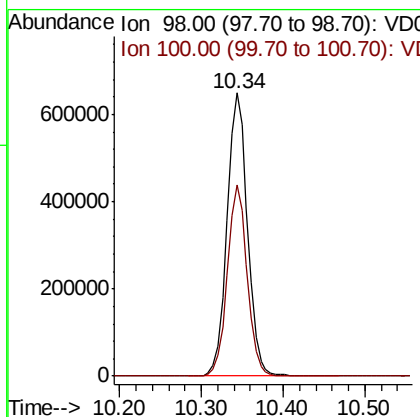
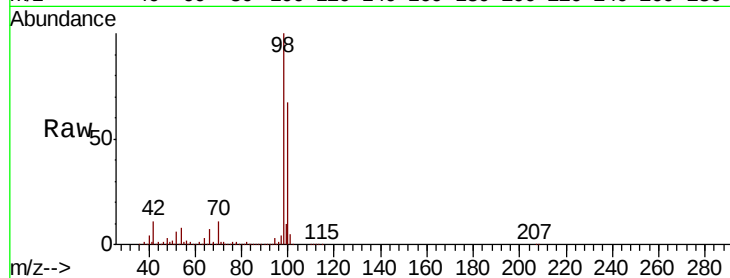




#50
Toluene-d8
Concen: 53.268 ug/l
RT: 10.34 min Scan# 1432
Delta R.T. -0.00 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

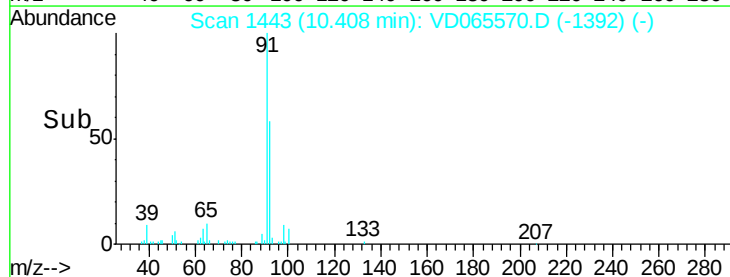
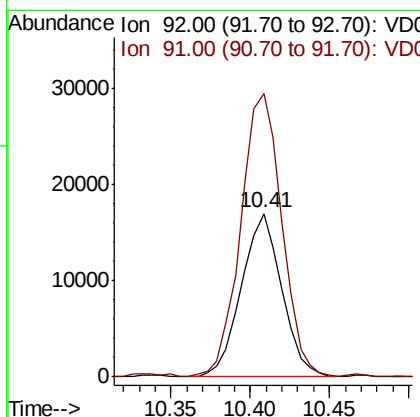
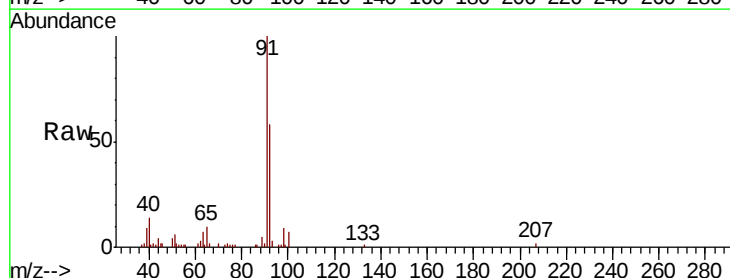
Instrument :
MSVOA_D
ClientSampleId :

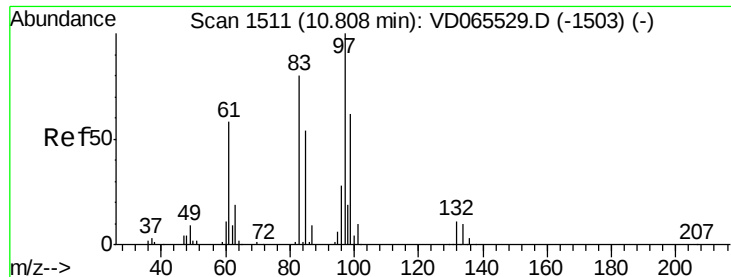
Tot Ion: 98 Resp: 1126964
Ion Ratio Lower Upper
98 100
100 65.5 52.2 78.2



#52
Toluene
Concen: 1.993 ug/l
RT: 10.41 min Scan# 1443
Delta R.T. -0.00 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Tgt Ion: 92 Resp: 30048
Ion Ratio Lower Upper
92 100
91 176.9 137.3 205.9

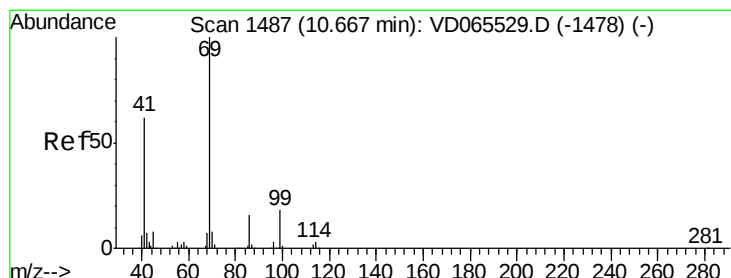
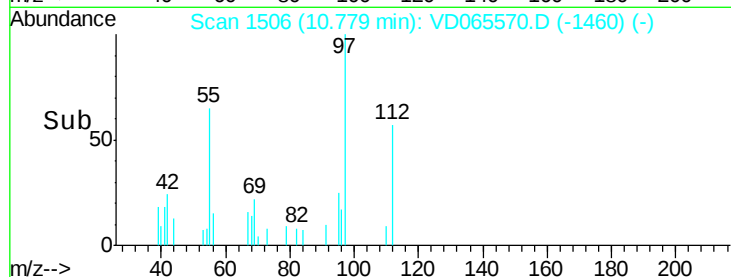
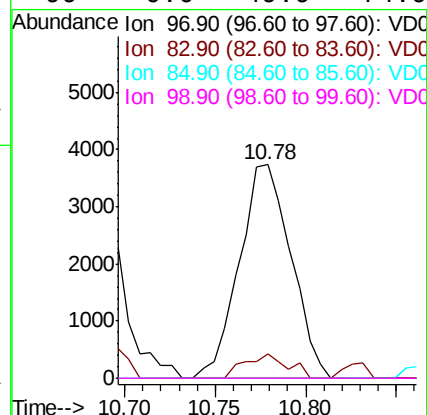
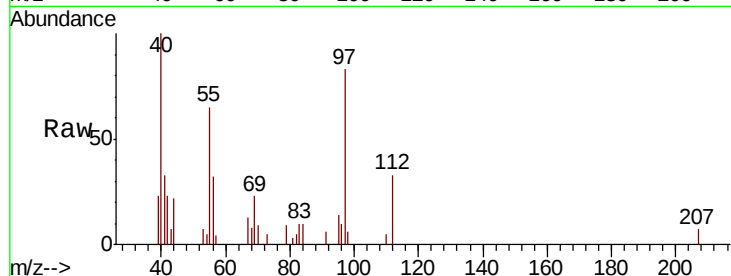




#55
 1,1,2-Trichloroethane
 Concen: 1.712 ug/l
 RT: 10.78 min Scan# 1506
 Delta R.T. -0.03 min
 Lab File: VD065570.D
 Acq: 31 Mar 2020 17:12

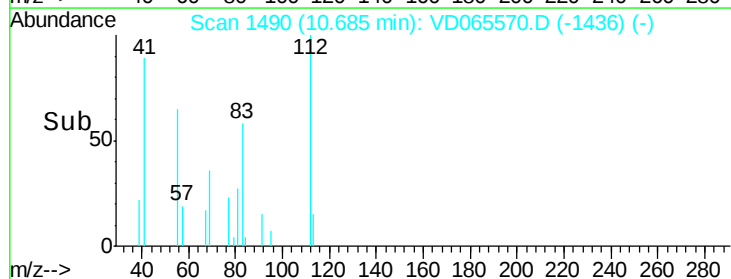
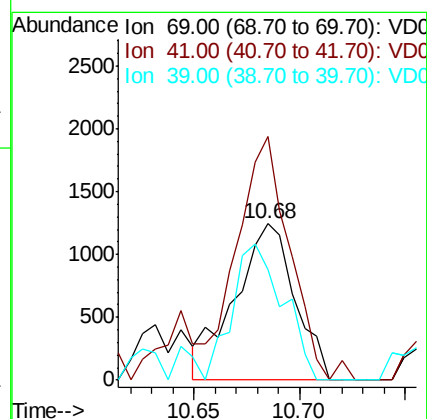
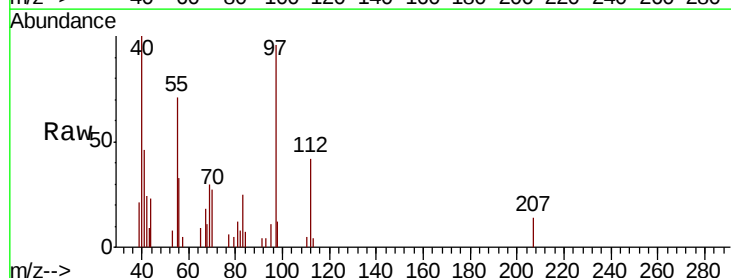
Instrument :
 MSVOA_D
 ClientSampled :

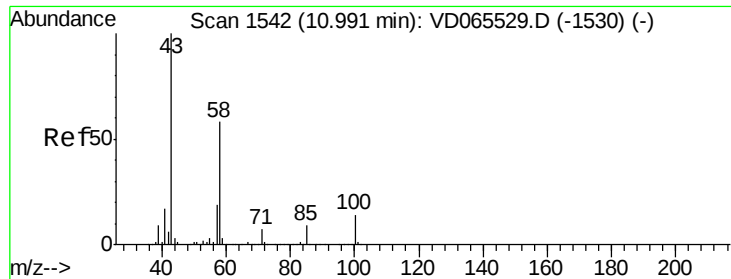
Tot Ion: 97 Resp: 7408
 Ion Ratio Lower Upper
 97 100
 83 11.6 63.8 95.6#
 85 0.0 42.9 64.3#
 99 0.0 49.9 74.9#



#56
 Ethyl methacrylate
 Concen: 3.729 ug/l
 RT: 10.68 min Scan# 1490
 Delta R.T. 0.02 min
 Lab File: VD065570.D
 Acq: 31 Mar 2020 17:12

Tgt Ion: 69 Resp: 2469
 Ion Ratio Lower Upper
 69 100
 41 138.7 51.3 76.9#
 39 79.7 25.3 37.9#

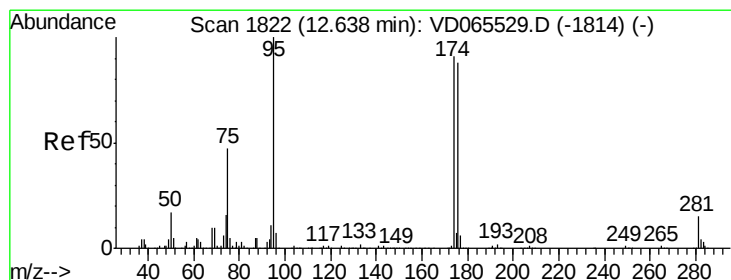
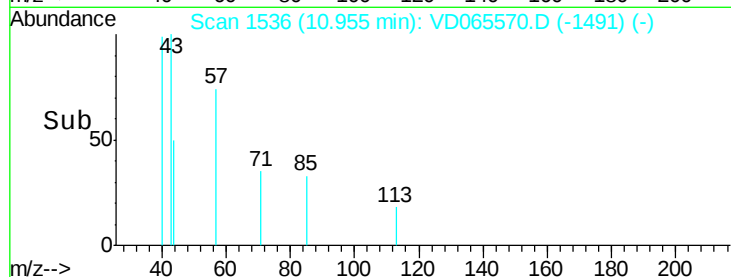
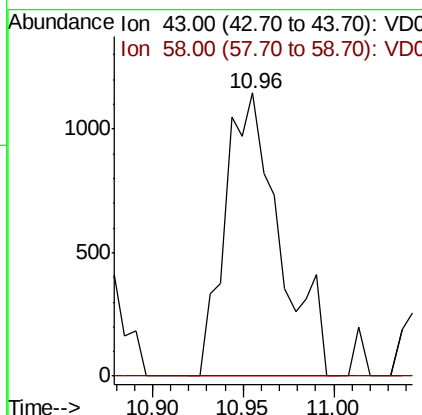
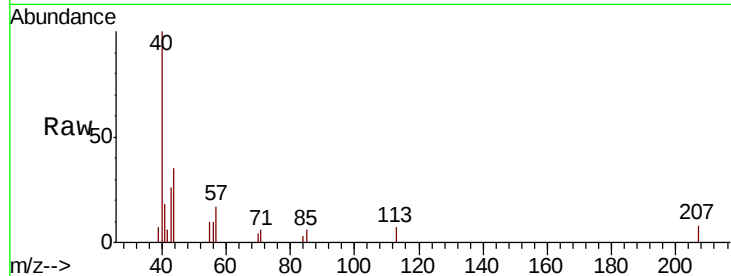




#59
2-Hexanone
Concen: 1.194 ug/l
RT: 10.96 min Scan# 1536
Delta R.T. -0.04 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

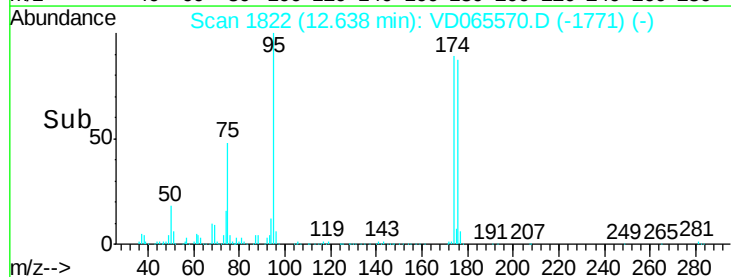
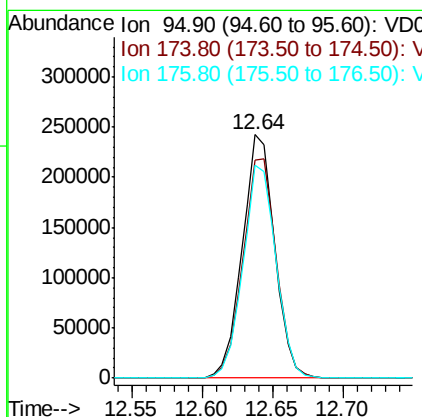
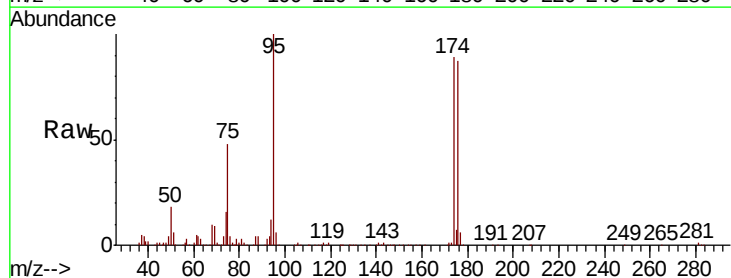
Instrument :
MSVOA_D
ClientSampled :

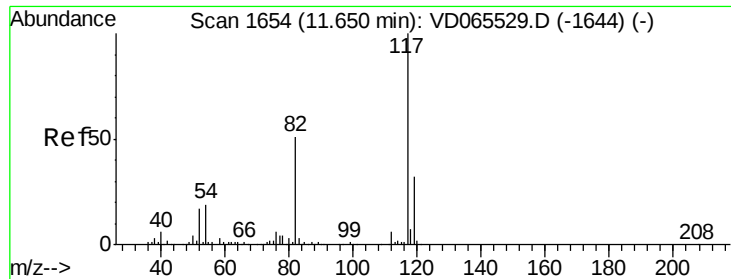
Tot Ion: 43 Resp: 2383
Ion Ratio Lower Upper
43 100
58 0.0 27.9 83.7#



#62
4-Bromofluorobenzene
Concen: 58.045 ug/l
RT: 12.64 min Scan# 1822
Delta R.T. -0.00 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Tgt Ion: 95 Resp: 389769
Ion Ratio Lower Upper
95 100
174 92.9 0.0 183.8
176 89.3 0.0 178.2

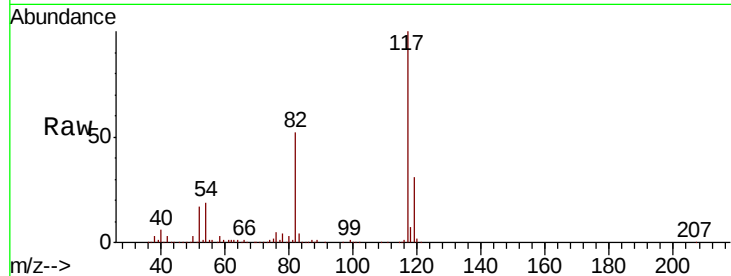




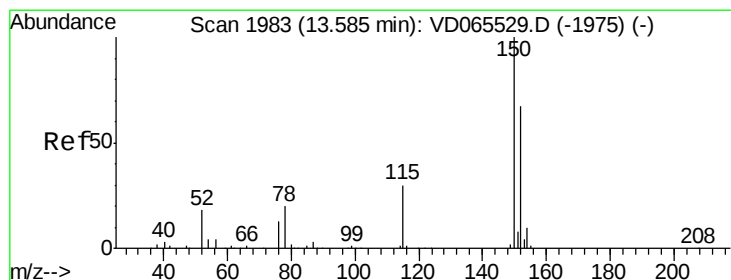
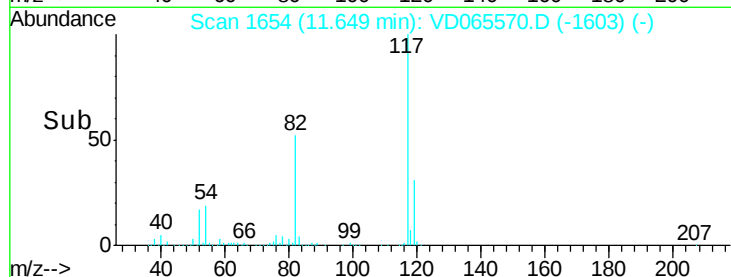
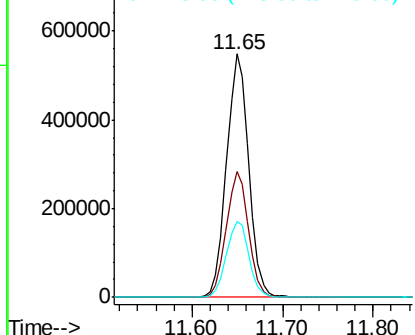
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.65 min Scan# 1654
Delta R.T. -0.00 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Instrument :
MSVOA_D
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.6	41.0	61.6
119	31.3	25.5	38.3

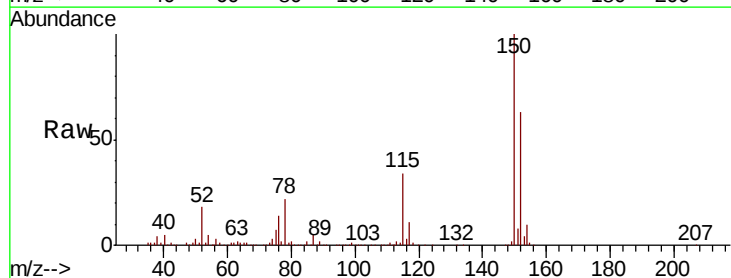


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

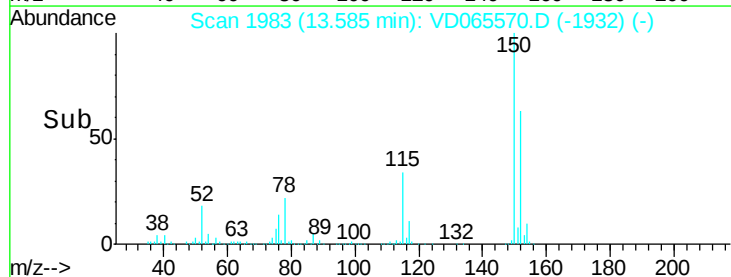
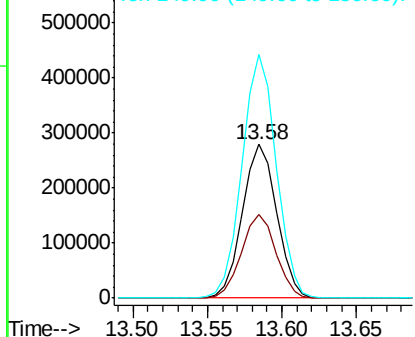


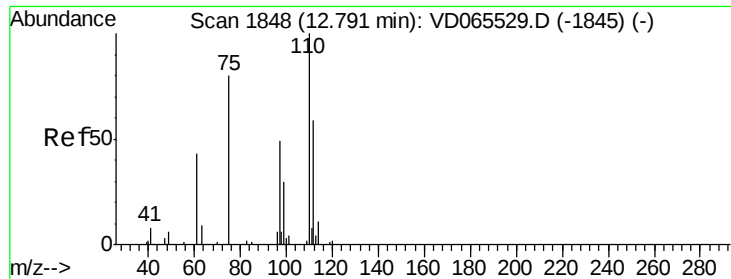
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.58 min Scan# 1983
Delta R.T. -0.00 min
Lab File: VD065570.D
Acq: 31 Mar 2020 17:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	54.7	27.2	81.6
150	157.5	0.0	340.2



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: 54.311 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065570.D

Acq: 31 Mar 2020 17:12

Instrument :

MSVOA_D

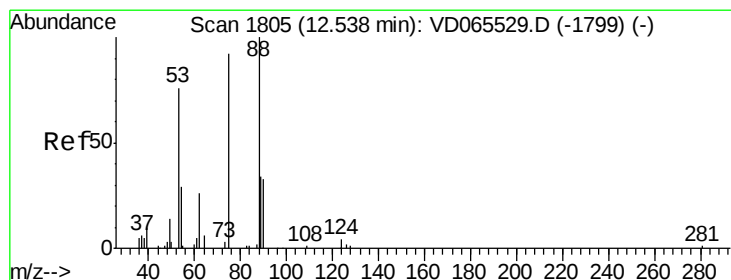
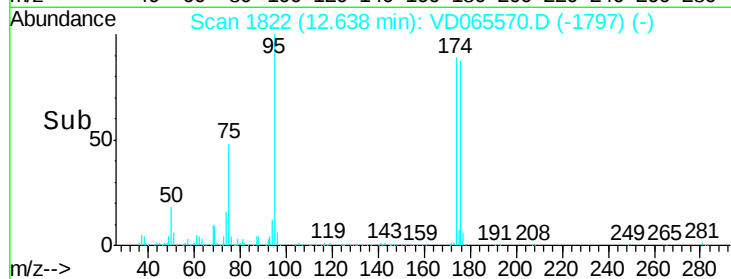
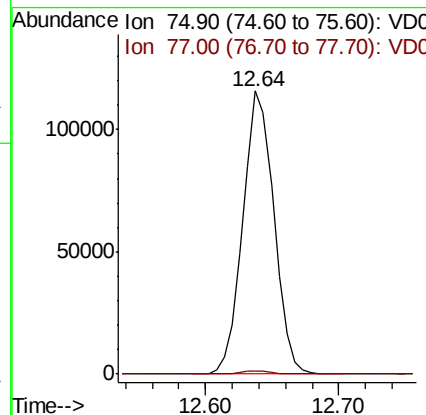
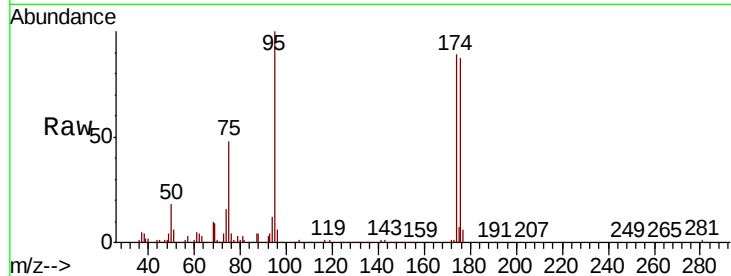
ClientSampleId :

Tot Ion: 75 Resp: 186061

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 121.232 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065570.D

Acq: 31 Mar 2020 17:12

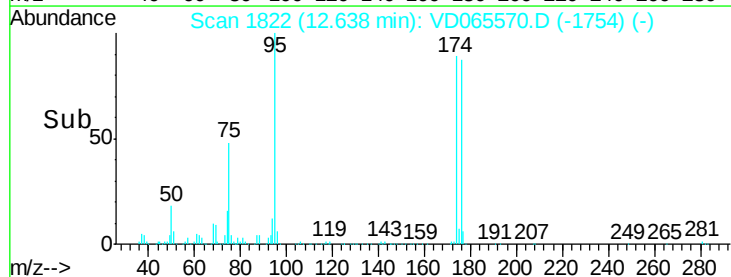
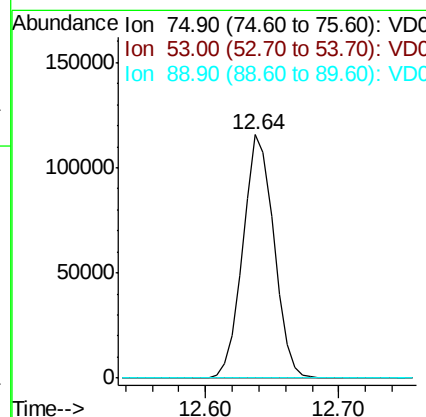
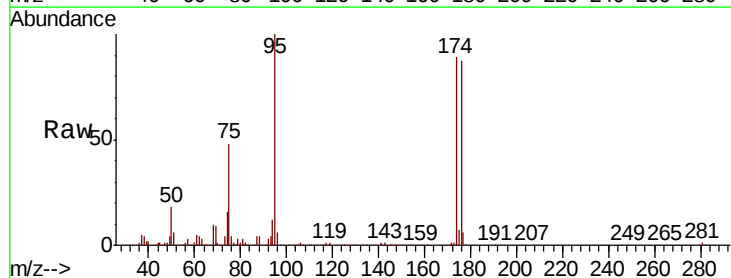
Tgt Ion: 75 Resp: 186061

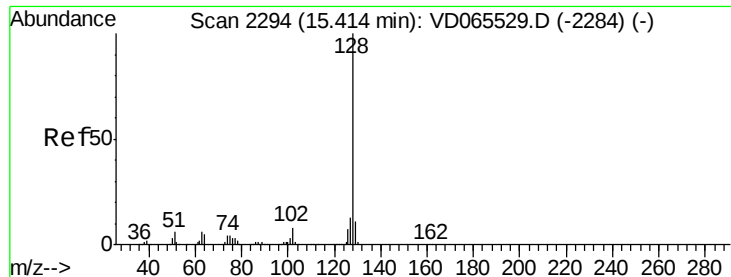
Ion Ratio Lower Upper

75 100

53 0.1 72.4 108.6#

89 0.0 36.9 55.3#





#95

Naphthalene

Concen: 472.226 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065570.D

Acq: 31 Mar 2020 17:12

Instrument :

MSVOA_D

ClientSampleId :

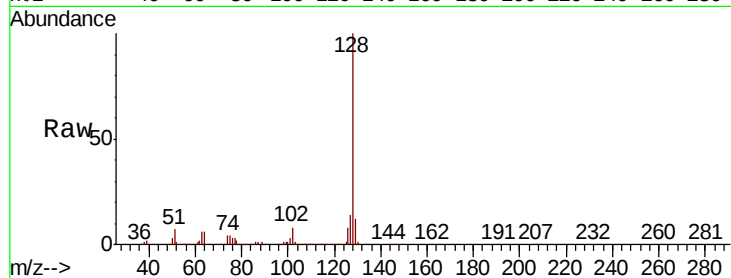
Tot Ion:128 Resp: 7049519

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

129 11.2 8.7 13.1



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

