

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD022122\
 Data File : VD072036.D
 Acq On : 21 Feb 2022 16:58
 Operator : VA/SY
 Sample : N1626-07
 Misc : 7.77G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 CC-A4

Quant Time: Feb 22 01:06:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D021822S.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 19 04:05:38 2022
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

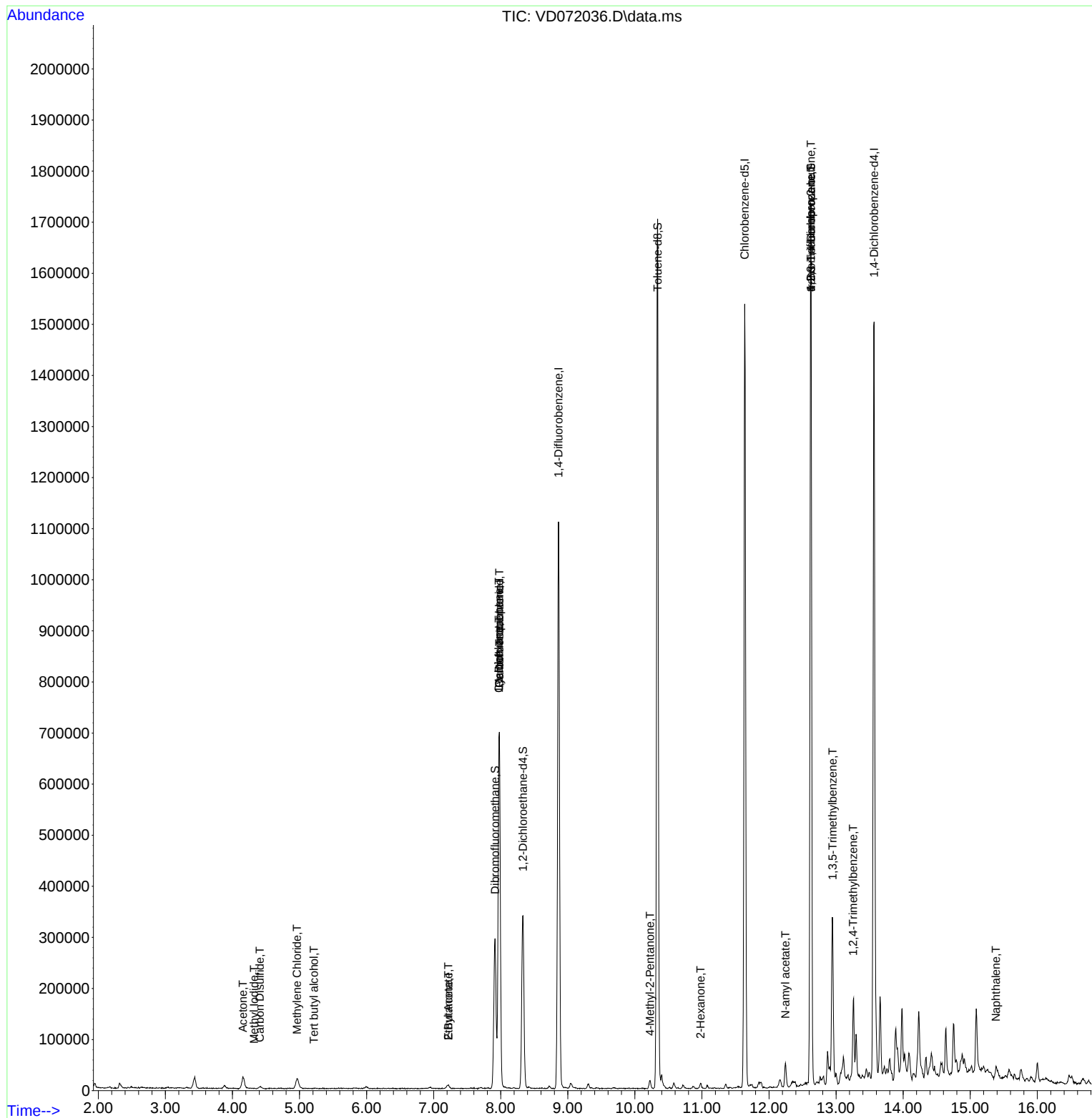
Internal Standards						
1) Pentafluorobenzene	7.979	168	522596	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	927726	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	875831	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	401529	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	280253	51.699	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.400%	
35) Dibromofluoromethane	7.914	113	212420	37.792	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 75.580%	
50) Toluene-d8	10.338	98	1146806	55.018	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 110.040%	
62) 4-Bromofluorobenzene	12.626	95	407549	53.228	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 106.460%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.773	94	456	Below Cal	#	73
10) Methyl Iodide	4.320	142	73	2.936	ug/l #	40
11) Tert butyl alcohol	5.215	59	385	1.245	ug/l #	80
16) Acetone	4.156	43	39385	33.618	ug/l	98
17) Carbon Disulfide	4.409	76	6662	1.156	ug/l	97
18) Methyl Acetate	4.709	43	60	Below Cal	#	52
20) Methylene Chloride	4.962	84	14990	2.571	ug/l	96
25) 2-Butanone	7.220	43	10602	6.548	ug/l #	85
31) Cyclohexane	7.973	56	12606	1.317	ug/l #	1
36) 1,1-Dichloropropene	7.973	75	40519	4.759	ug/l #	51
37) Ethyl Acetate	7.220	43	10602	2.685	ug/l #	71
38) Carbon Tetrachloride	7.979	117	54029	6.191	ug/l #	16
51) 4-Methyl-2-Pentanone	10.226	43	11373	2.919	ug/l	99
59) 2-Hexanone	10.979	43	8257	3.107	ug/l	83
74) N-amyl acetate	12.244	43	27905	4.192	ug/l #	51
76) 1,2,3-Trichloropropane	12.626	75	215670	56.705	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.949	105	47281	2.054	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.626	75	215670	142.001	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.255	105	94574	4.179	ug/l	96
95) Naphthalene	15.385	128	16010	1.255	ug/l #	92

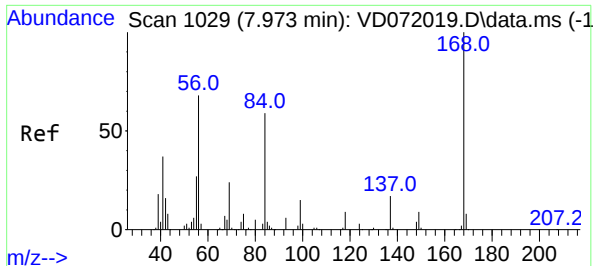
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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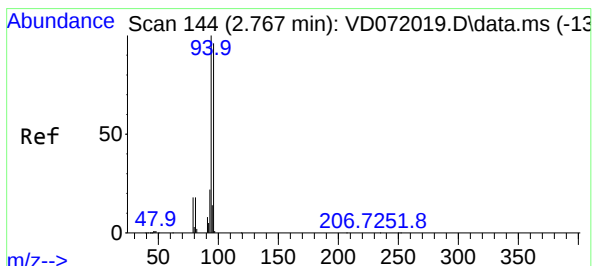
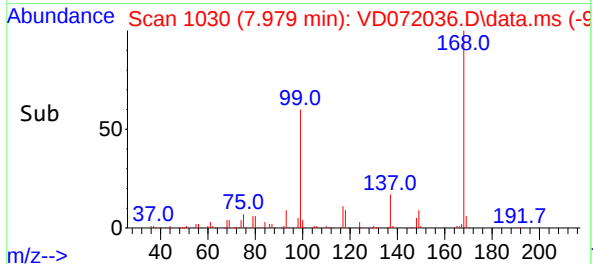
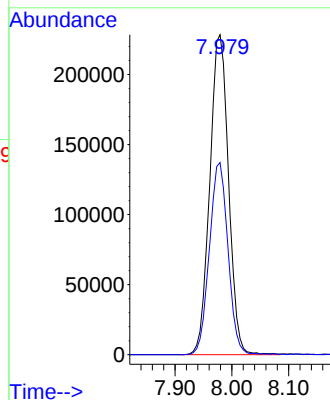
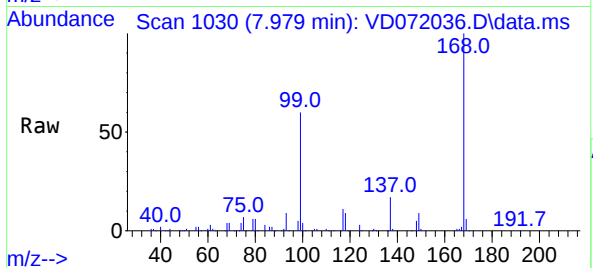




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 10
Delta R.T. 0.006 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

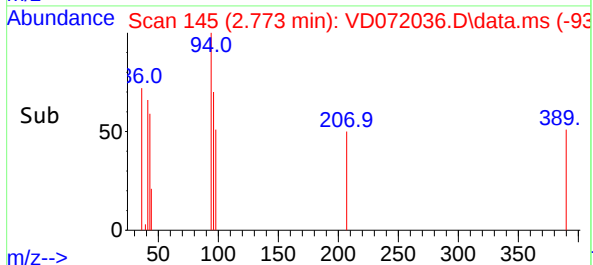
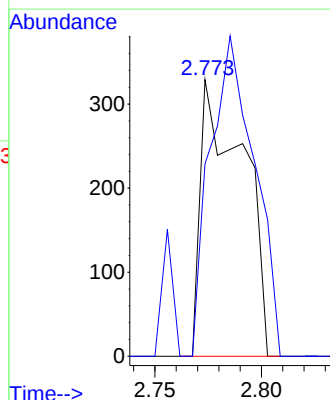
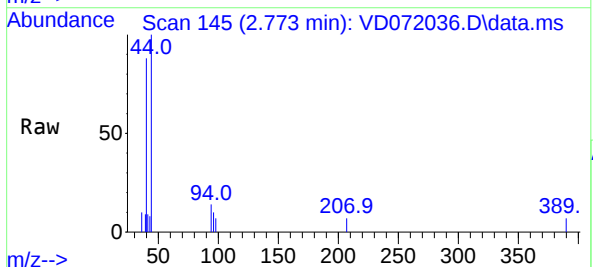
Instrument :
MSVOA_D
ClientSampleId :
CC-A4

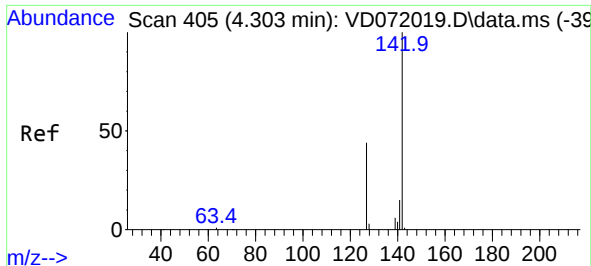
Tgt Ion:168 Resp: 522596
Ion Ratio Lower Upper
168 100
99 60.0 47.1 70.7



#5
Bromomethane
Concen: Below Cal
RT: 2.773 min Scan# 145
Delta R.T. 0.006 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion: 94 Resp: 456
Ion Ratio Lower Upper
94 100
96 69.6 76.8 115.2#

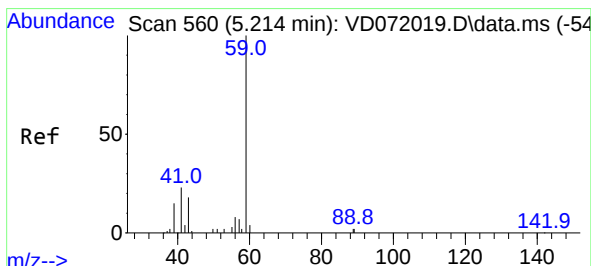
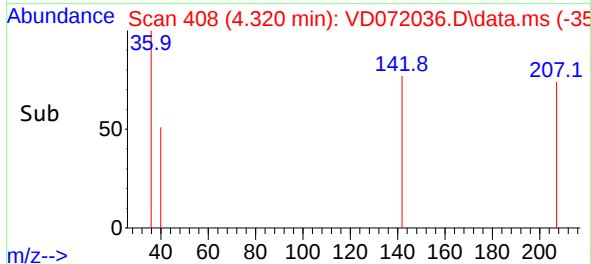
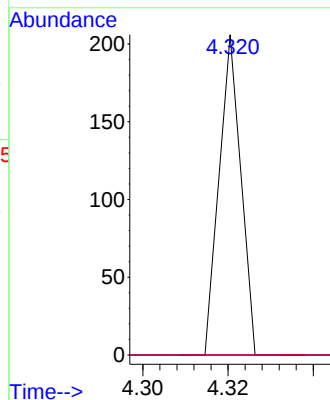
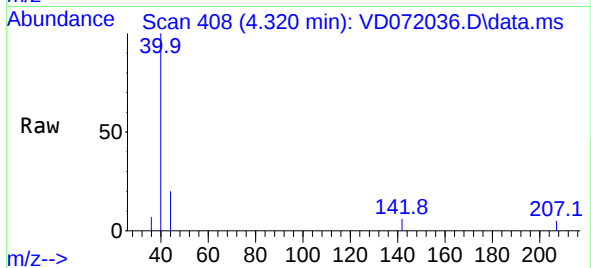




#10
Methyl Iodide
Concen: 2.936 ug/l
RT: 4.320 min Scan# 405
Delta R.T. 0.017 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

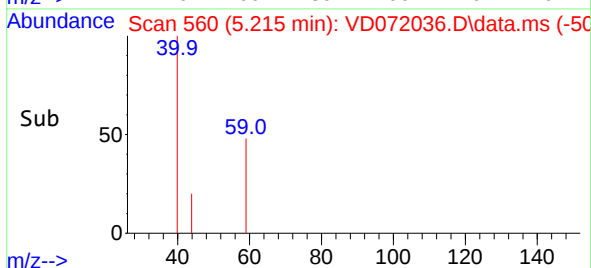
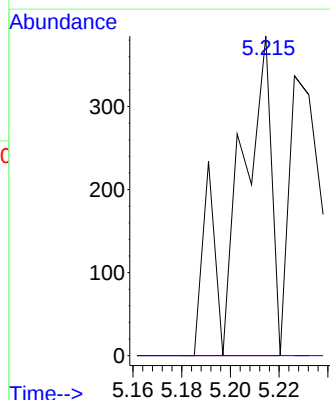
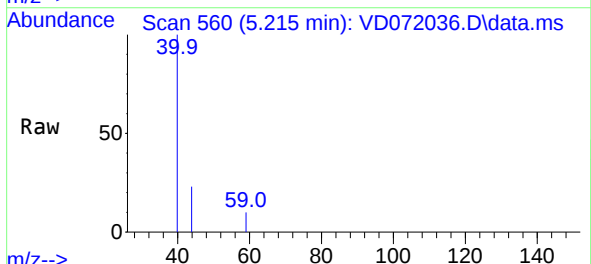
Instrument :
MSVOA_D
ClientSampleId :
CC-A4

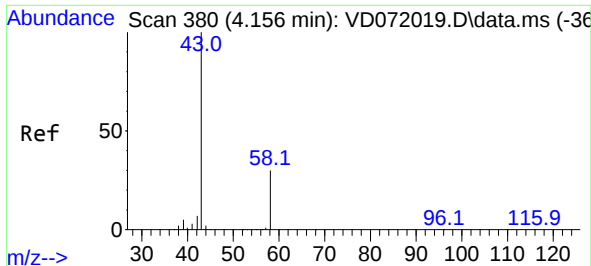
Tgt Ion:142 Resp: 73
Ion Ratio Lower Upper
142 100
127 0.0 35.8 53.8#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 1.245 ug/l
RT: 5.215 min Scan# 560
Delta R.T. 0.000 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion: 59 Resp: 385
Ion Ratio Lower Upper
59 100
57 0.0 5.4 8.2#

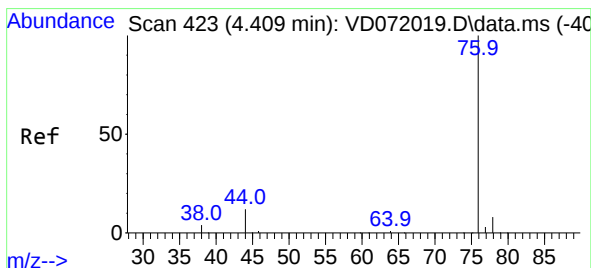
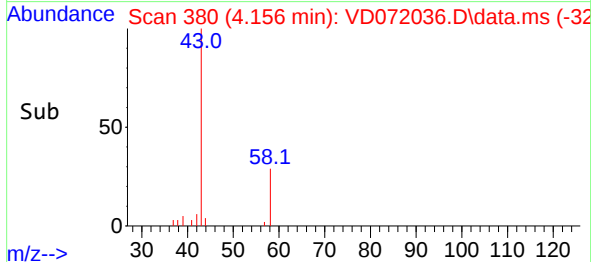
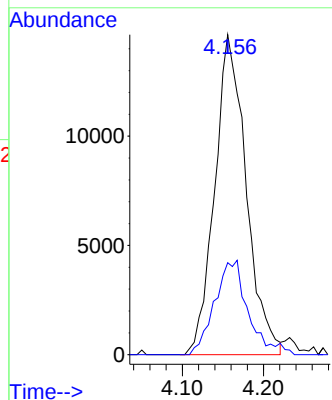
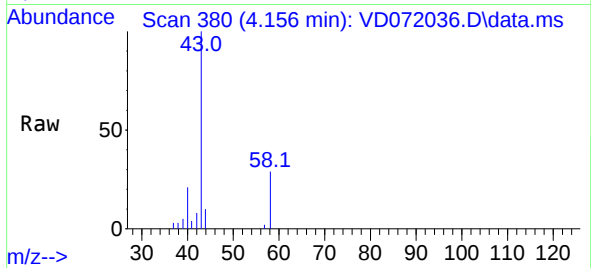




#16
Acetone
Concen: 33.618 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

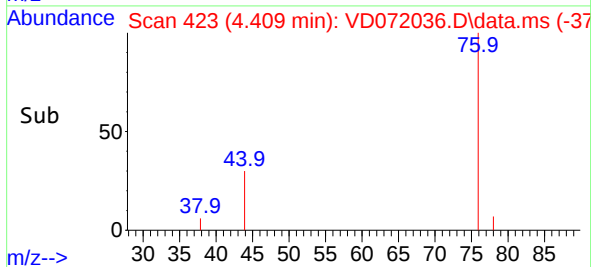
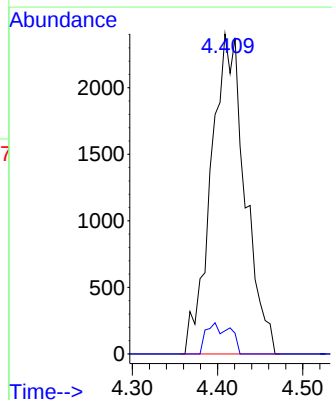
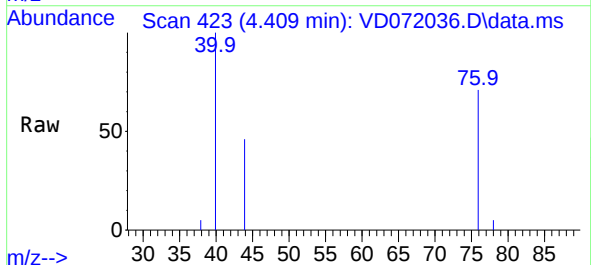
Instrument :
MSVOA_D
ClientSampleId :
CC-A4

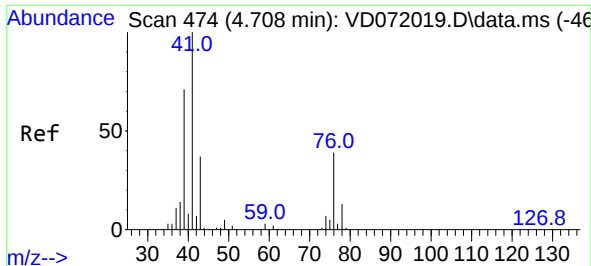
Tgt Ion: 43 Resp: 39385
Ion Ratio Lower Upper
43 100
58 28.7 23.8 35.6



#17
Carbon Disulfide
Concen: 1.156 ug/l
RT: 4.409 min Scan# 423
Delta R.T. -0.000 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion: 76 Resp: 6662
Ion Ratio Lower Upper
76 100
78 7.2 6.7 10.1

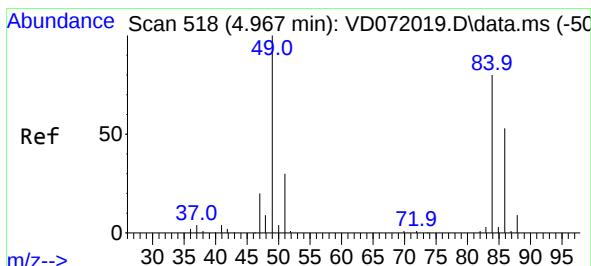
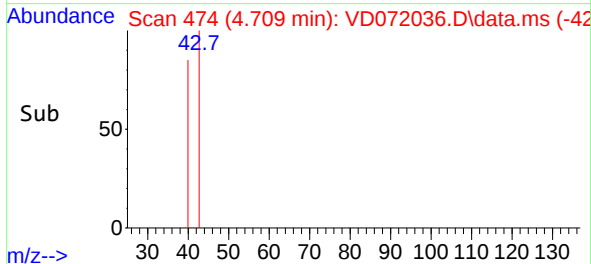
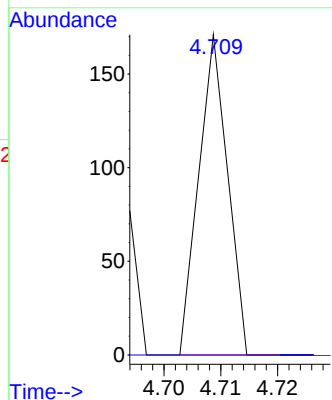
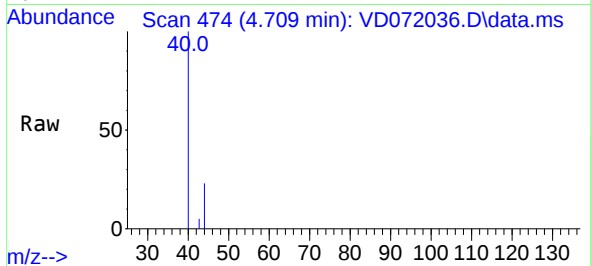




#18
Methyl Acetate
Concen: Below Cal
RT: 4.709 min Scan# 41
Delta R.T. 0.001 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

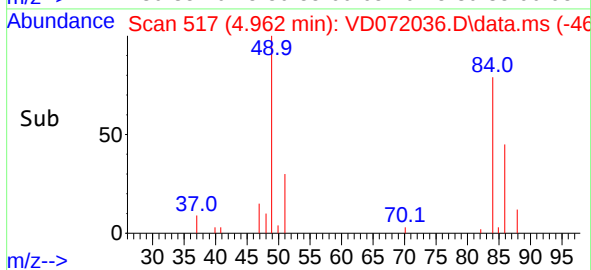
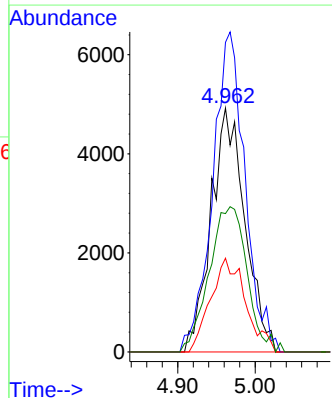
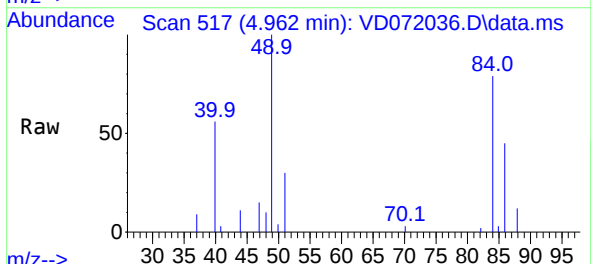
Instrument :
MSVOA_D
ClientSampleId :
CC-A4

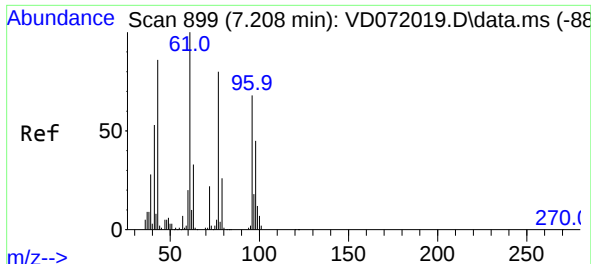
Tgt Ion: 43 Resp: 60
Ion Ratio Lower Upper
43 100
74 0.0 18.6 27.8#



#20
Methylene Chloride
Concen: 2.571 ug/l
RT: 4.962 min Scan# 517
Delta R.T. -0.006 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion: 84 Resp: 14990
Ion Ratio Lower Upper
84 100
49 127.0 100.0 150.0
51 38.4 30.2 45.4
86 56.8 52.7 79.1





#25

2-Butanone

Concen: 6.548 ug/l

RT: 7.220 min Scan# 901

Delta R.T. 0.012 min

Lab File: VD072036.D

Acq: 21 Feb 2022 16:58

Instrument :

MSVOA_D

ClientSampleId :

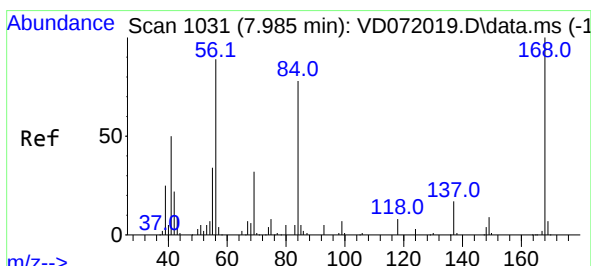
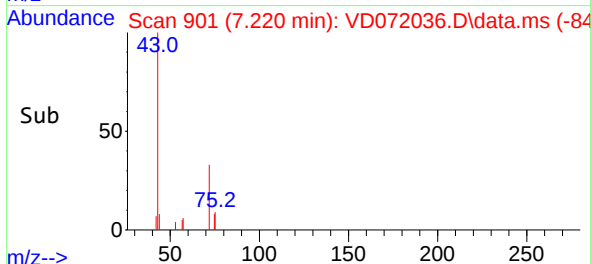
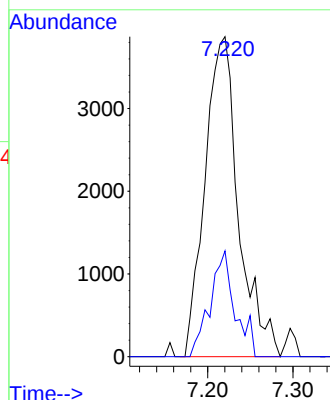
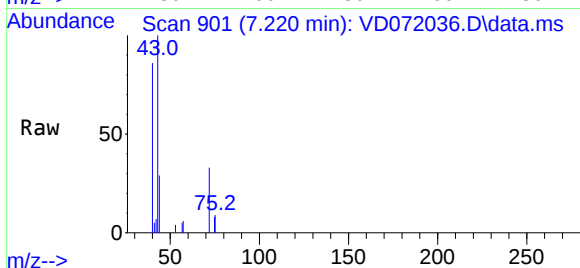
CC-A4

Tgt Ion: 43 Resp: 10602

Ion Ratio Lower Upper

43 100

72 33.1 20.3 30.5#



#31

Cyclohexane

Concen: 1.317 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

Lab File: VD072036.D

Acq: 21 Feb 2022 16:58

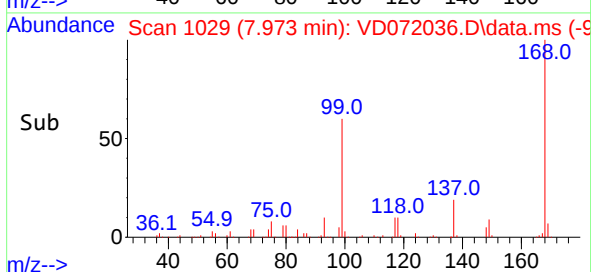
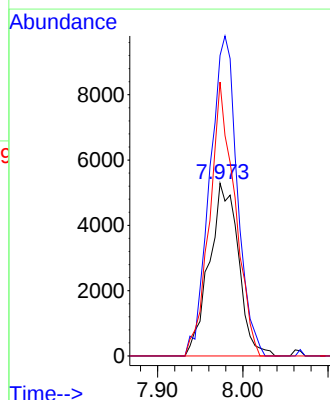
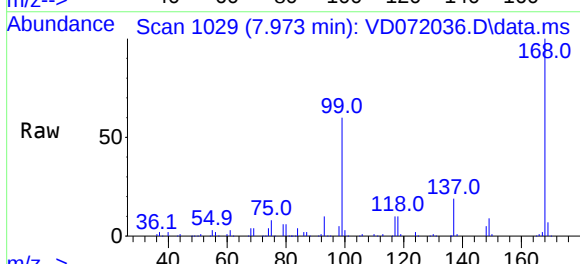
Tgt Ion: 56 Resp: 12606

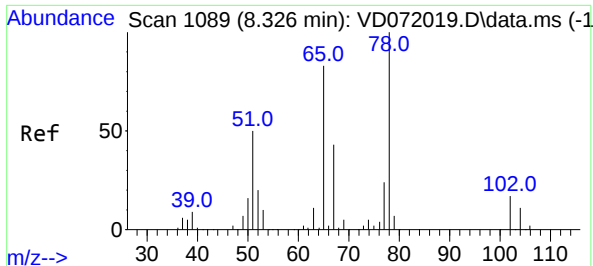
Ion Ratio Lower Upper

56 100

69 174.1 28.9 43.3#

84 158.7 70.6 105.8#





#33

1,2-Dichloroethane-d4

Concen: 51.699 ug/l

RT: 8.332 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VD072036.D

Acq: 21 Feb 2022 16:58

Instrument :

MSVOA_D

ClientSampleId :

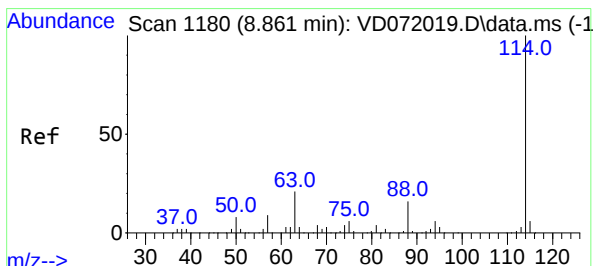
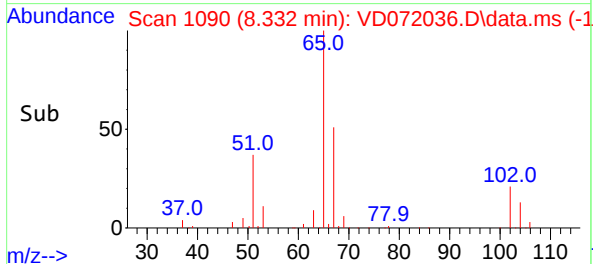
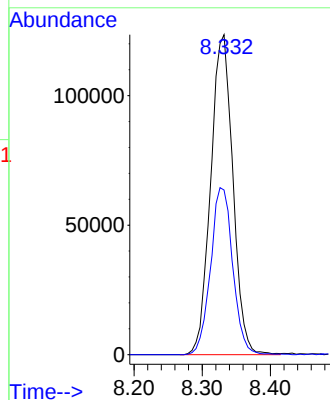
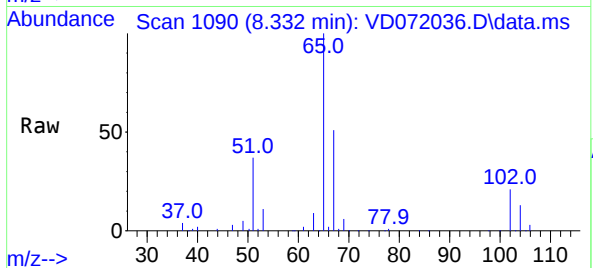
CC-A4

Tgt Ion: 65 Resp: 280253

Ion Ratio Lower Upper

65 100

67 52.1 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD072036.D

Acq: 21 Feb 2022 16:58

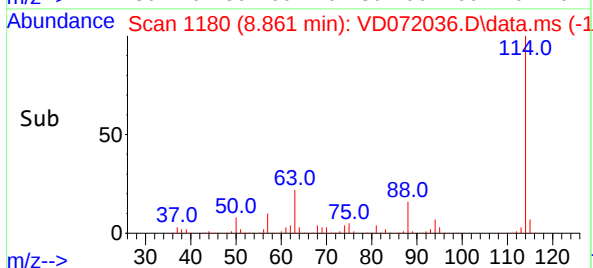
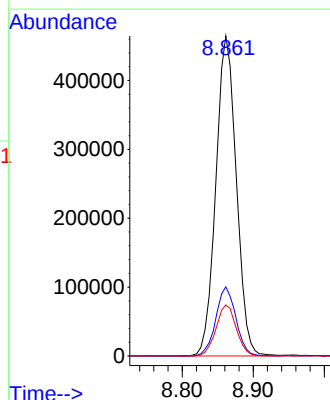
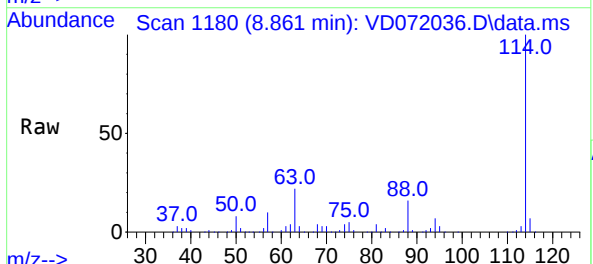
Tgt Ion: 114 Resp: 927726

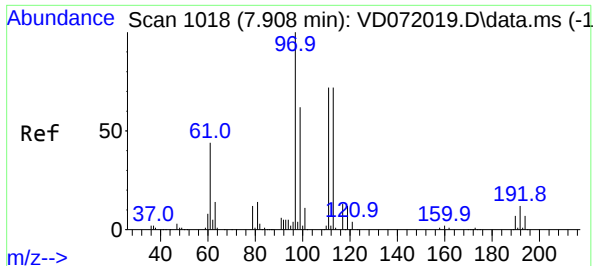
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.2

88 15.9 0.0 31.2

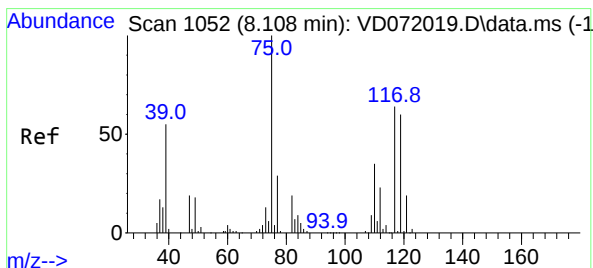
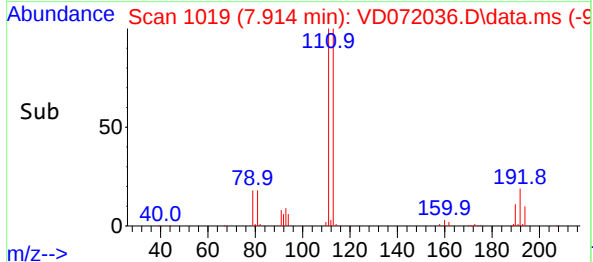
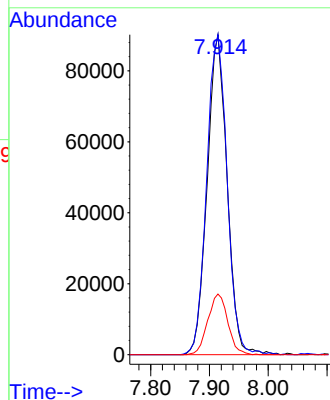
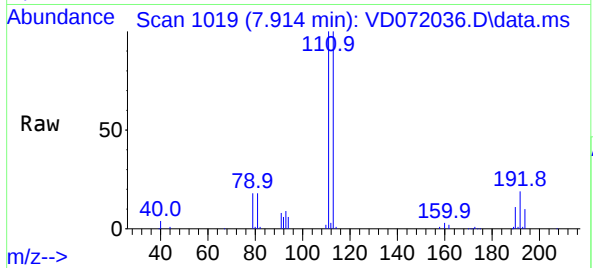




#35
Dibromofluoromethane
Concen: 37.792 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. 0.006 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

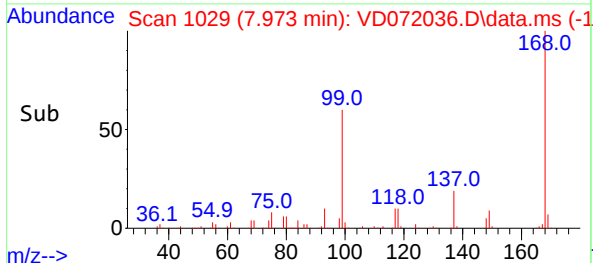
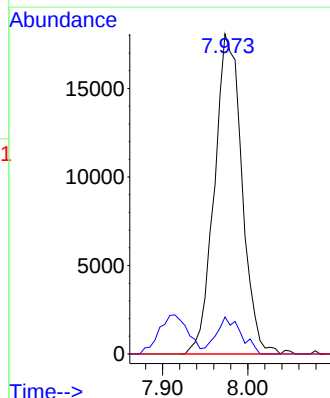
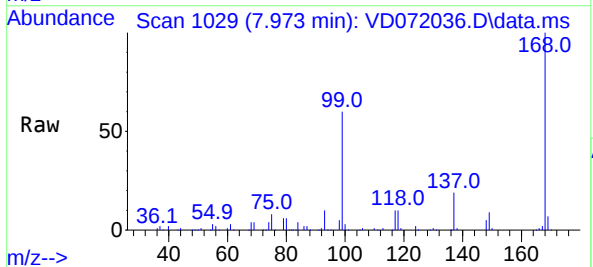
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CC-A4

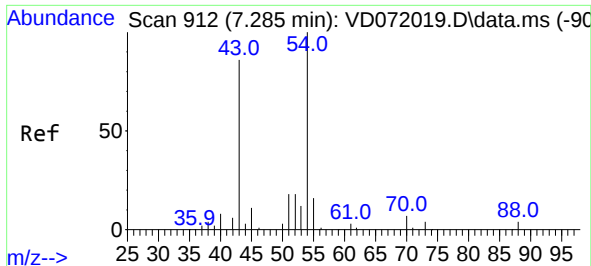
Tgt Ion:113 Resp: 212420
Ion Ratio Lower Upper
113 100
111 102.6 83.0 124.4
192 19.0 15.3 22.9



#36
1,1-Dichloropropene
Concen: 4.759 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. -0.135 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion: 75 Resp: 40519
Ion Ratio Lower Upper
75 100
110 10.6 17.7 53.1#
77 0.0 24.8 37.2#





#37

Ethyl Acetate

Concen: 2.685 ug/l

RT: 7.220 min Scan# 901

Delta R.T. -0.065 min

Lab File: VD072036.D

Acq: 21 Feb 2022 16:58

Instrument :

MSVOA_D

ClientSampleId :

CC-A4

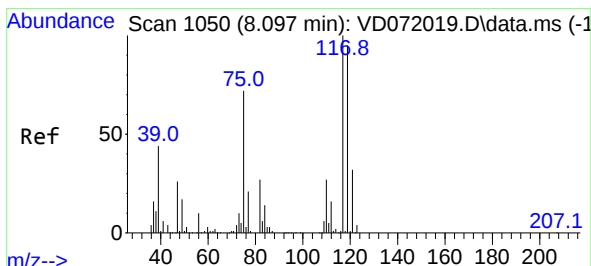
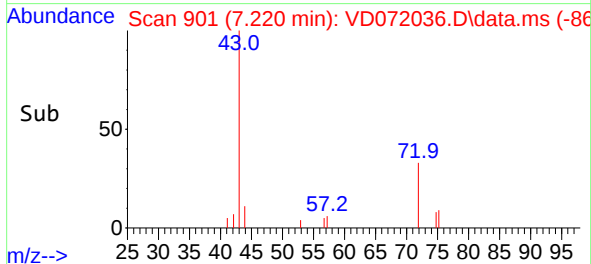
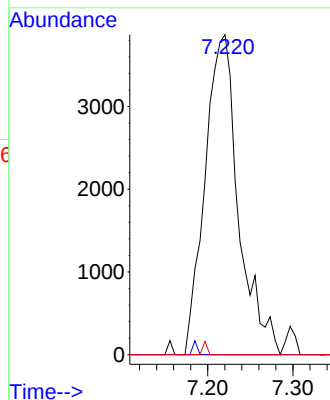
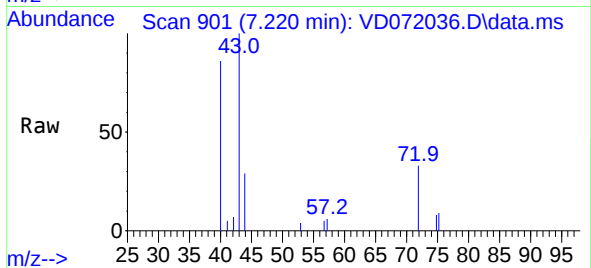
Tgt Ion: 43 Resp: 10602

Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

70 0.0 7.4 11.2#



#38

Carbon Tetrachloride

Concen: 6.191 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.117 min

Lab File: VD072036.D

Acq: 21 Feb 2022 16:58

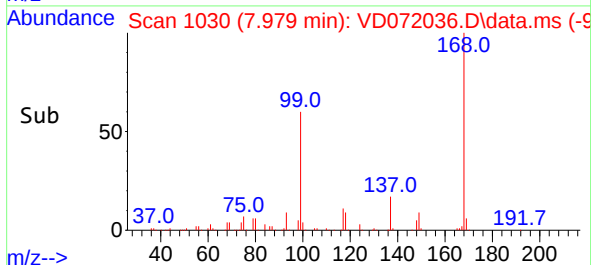
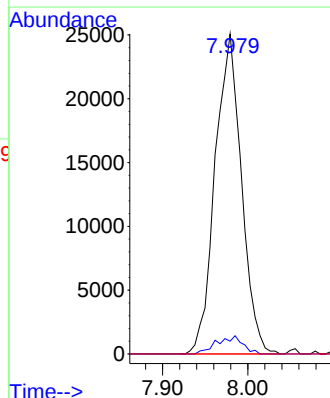
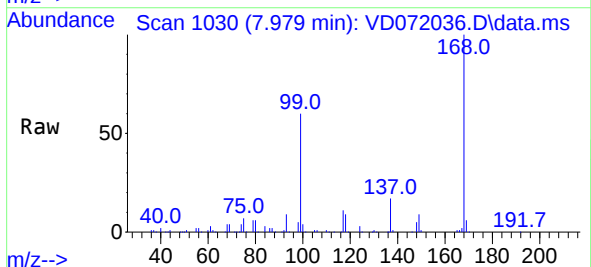
Tgt Ion: 117 Resp: 54029

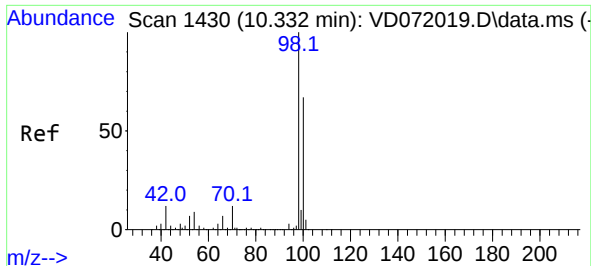
Ion Ratio Lower Upper

117 100

119 4.0 75.8 113.8#

121 0.0 25.8 38.6#

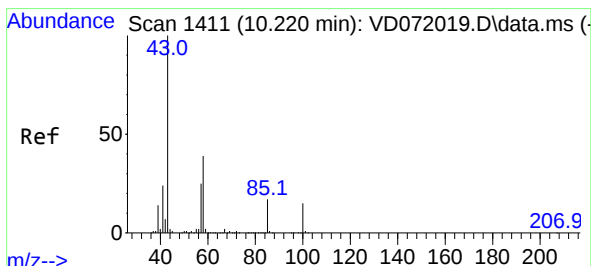
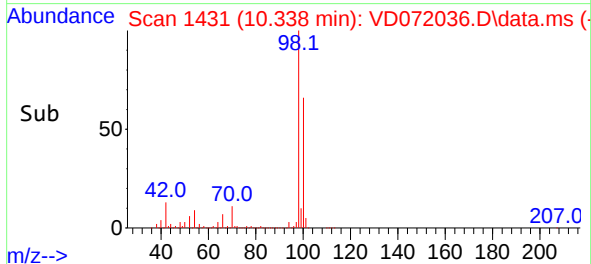
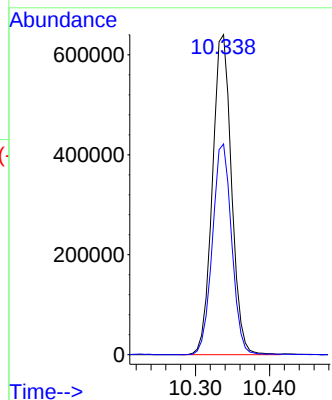
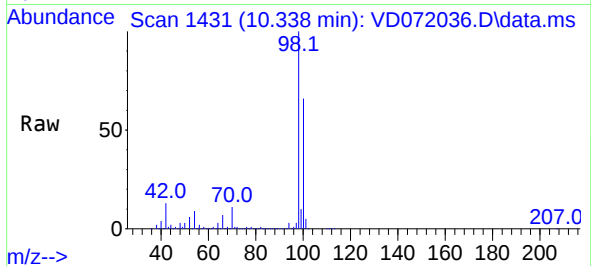




#50
Toluene-d8
Concen: 55.018 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

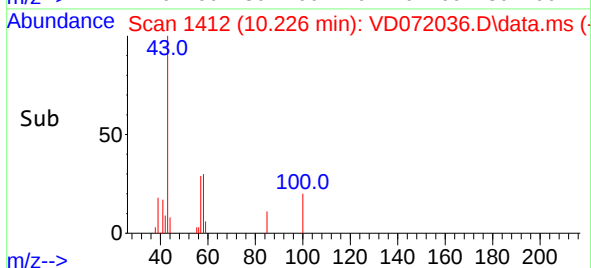
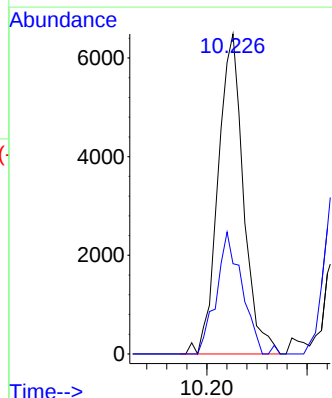
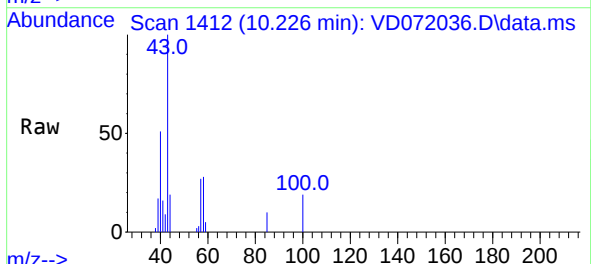
Instrument :
MSVOA_D
ClientSampleId :
CC-A4

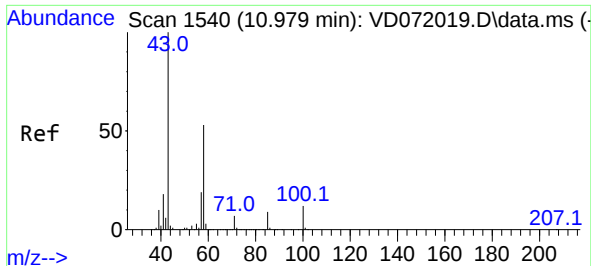
Tgt Ion: 98 Resp: 1146806
Ion Ratio Lower Upper
98 100
100 66.3 53.8 80.6



#51
4-Methyl-2-Pentanone
Concen: 2.919 ug/l
RT: 10.226 min Scan# 1412
Delta R.T. 0.006 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion: 43 Resp: 11373
Ion Ratio Lower Upper
43 100
58 38.0 30.8 46.2

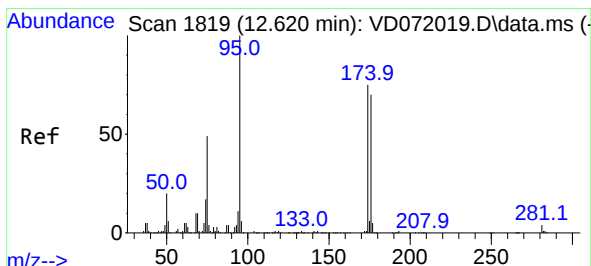
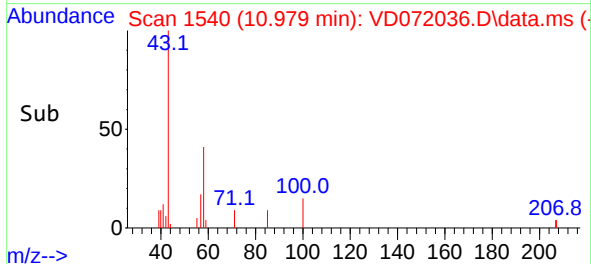
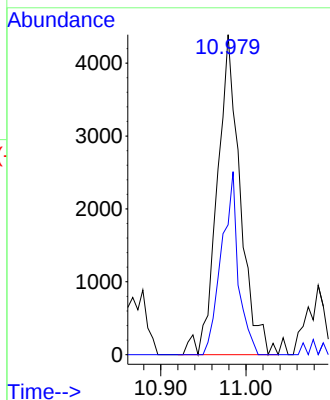
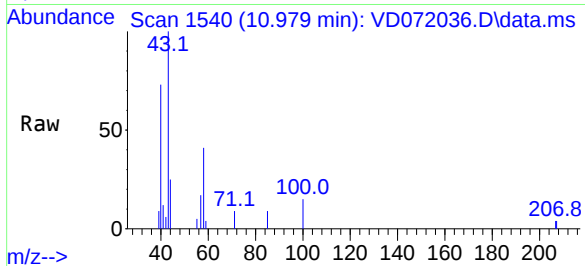




#59
2-Hexanone
Concen: 3.107 ug/l
RT: 10.979 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

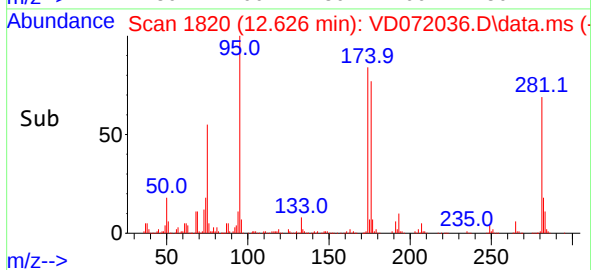
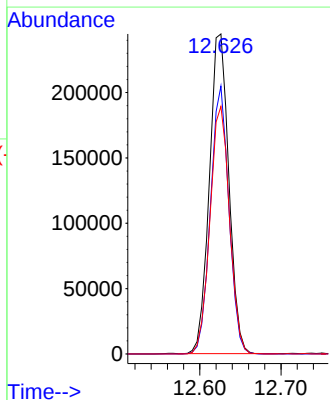
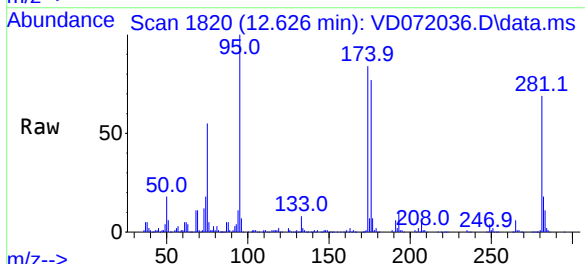
Instrument :
MSVOA_D
ClientSampleId :
CC-A4

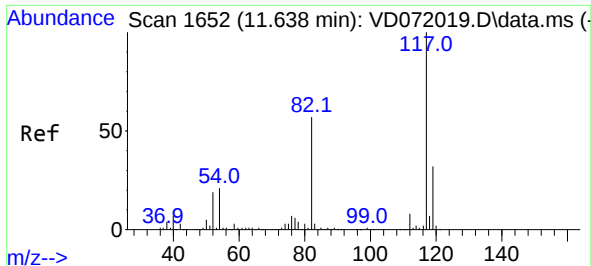
Tgt Ion: 43 Resp: 8257
Ion Ratio Lower Upper
43 100
58 41.8 27.0 80.8



#62
4-Bromofluorobenzene
Concen: 53.228 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.006 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion: 95 Resp: 407549
Ion Ratio Lower Upper
95 100
174 79.3 0.0 155.0
176 77.5 0.0 148.8

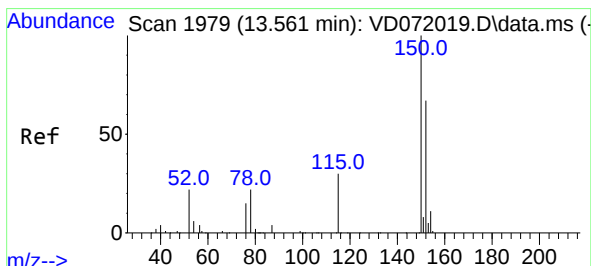
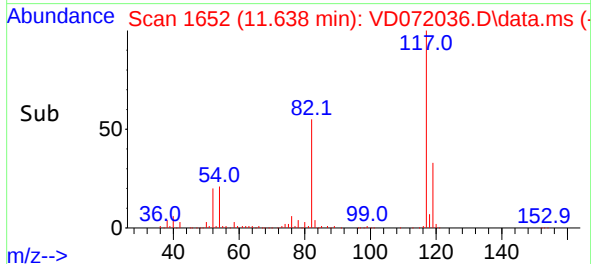
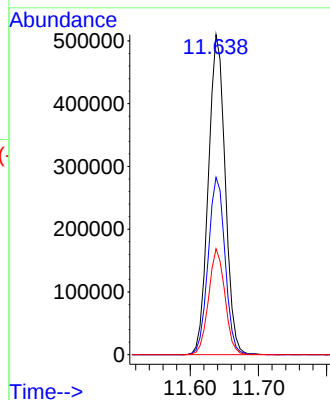
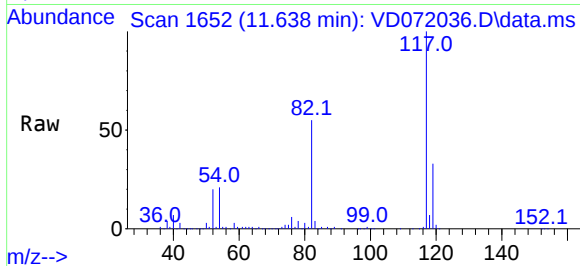




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

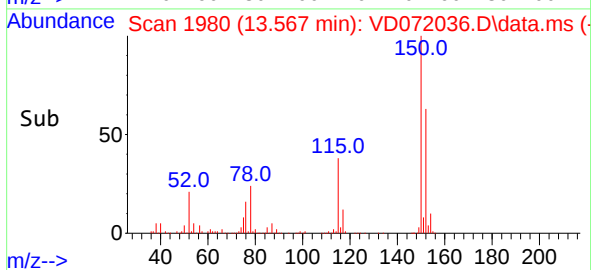
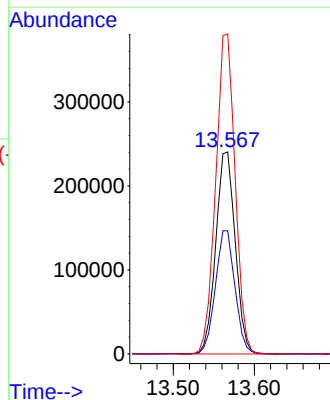
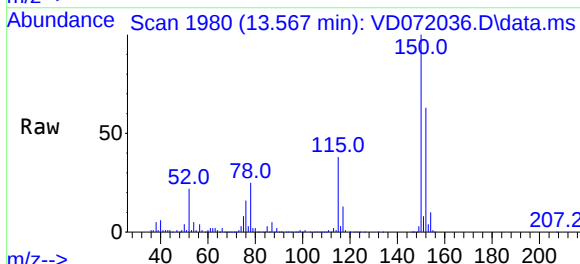
Instrument :
MSVOA_D
ClientSampleId :
CC-A4

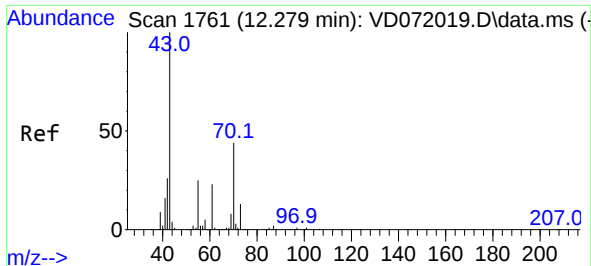
Tgt Ion:	117	Resp:	875831
Ion	Ratio	Lower	Upper
117	100		
82	55.4	45.4	68.0
119	33.1	25.4	38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.006 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion:	152	Resp:	401529
Ion	Ratio	Lower	Upper
152	100		
115	61.4	29.9	89.7
150	158.0	0.0	347.6

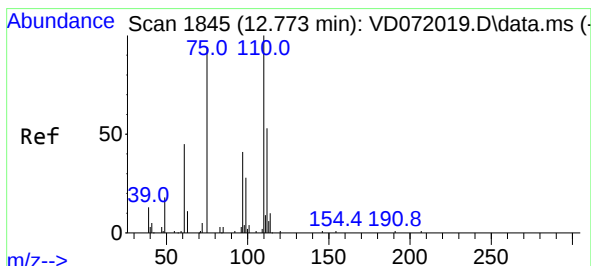
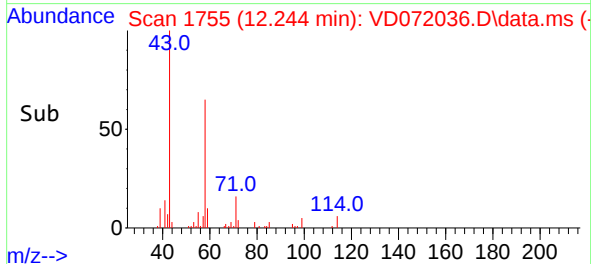
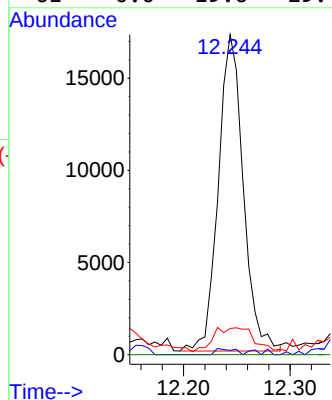
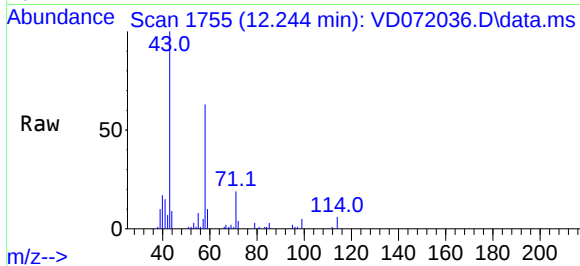




#74
N-amy1 acetate
Concen: 4.192 ug/l
RT: 12.244 min Scan# 11
Delta R.T. -0.035 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

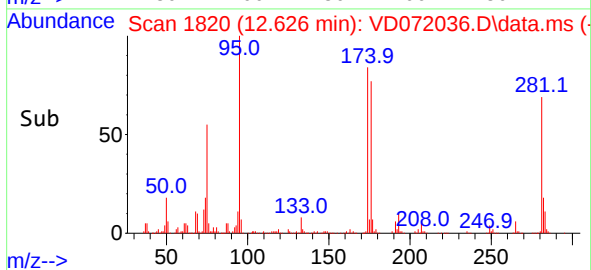
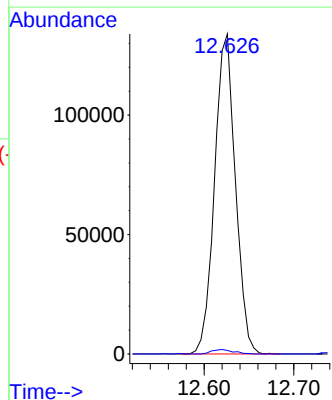
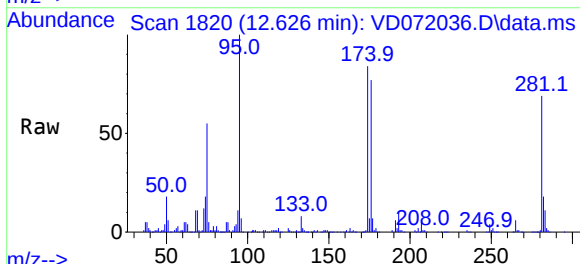
Instrument :
MSVOA_D
ClientSampleId :
CC-A4

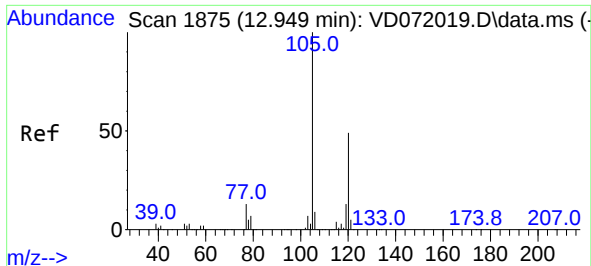
Tgt Ion: 43	Resp:	27905
Ion	Ratio	Lower Upper
43	100	
70	1.4	33.2 49.8#
55	12.2	20.6 30.8#
61	0.0	19.6 29.4#



#76
1,2,3-Trichloropropane
Concen: 56.705 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.147 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion: 75	Resp:	215670
Ion	Ratio	Lower Upper
75	100	
77	1.4	0.0 0.0#

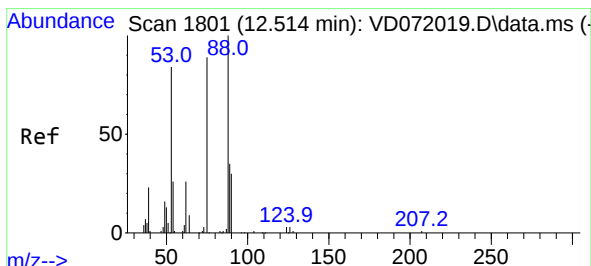
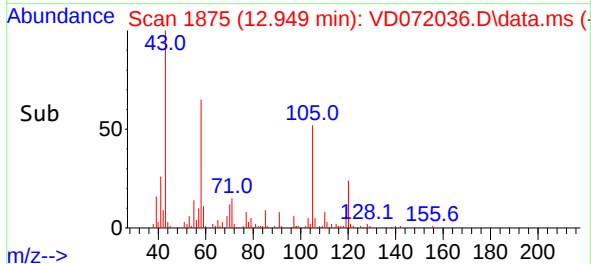
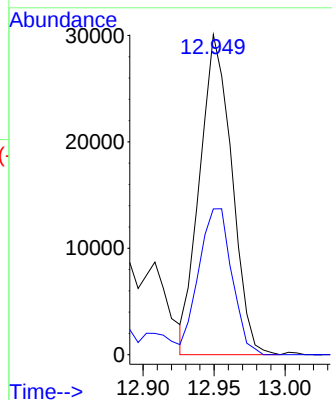
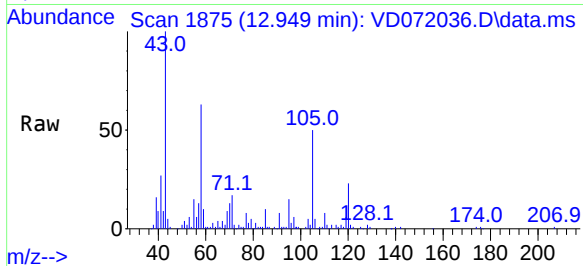




#80
1,3,5-Trimethylbenzene
Concen: 2.054 ug/l
RT: 12.949 min Scan# 1875
Delta R.T. 0.000 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

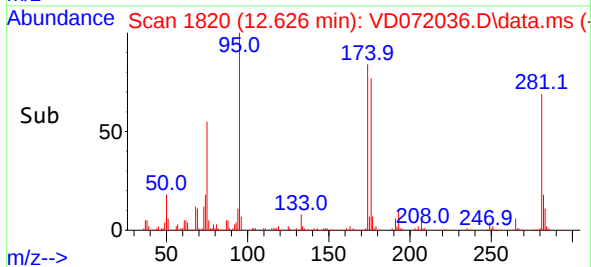
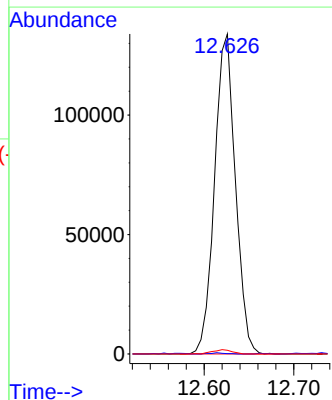
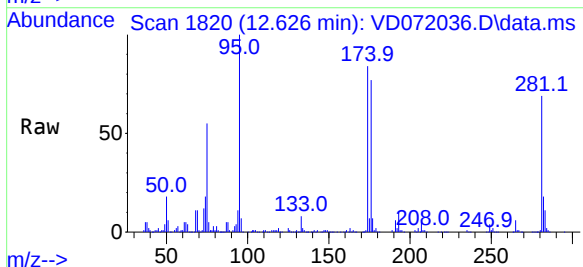
Instrument :
MSVOA_D
ClientSampleId :
CC-A4

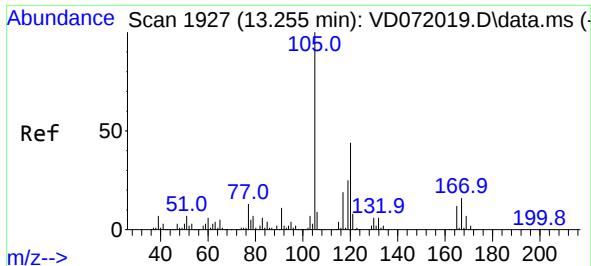
Tgt Ion:105 Resp: 47281
Ion Ratio Lower Upper
105 100
120 47.2 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 142.001 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.112 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion: 75 Resp: 215670
Ion Ratio Lower Upper
75 100
53 0.3 80.2 120.4#
89 1.3 36.4 54.6#

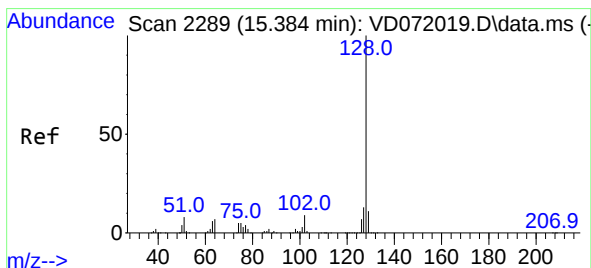
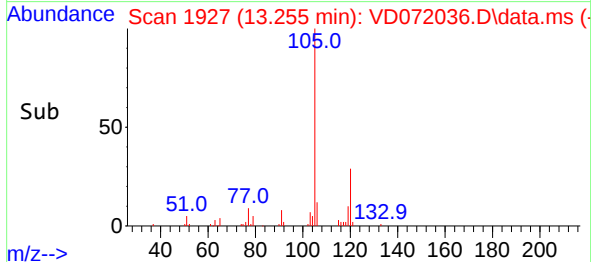
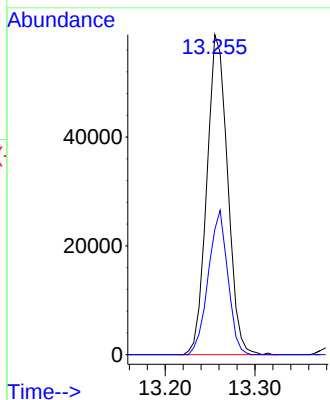
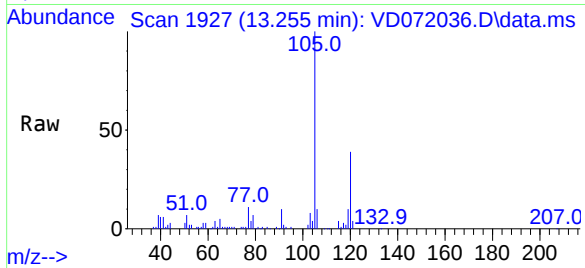




#84
1,2,4-Trimethylbenzene
Concen: 4.179 ug/l
RT: 13.255 min Scan# 1927
Delta R.T. 0.000 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Instrument :
MSVOA_D
ClientSampleId :
CC-A4

Tgt Ion:105 Resp: 94574
Ion Ratio Lower Upper
105 100
120 42.3 22.4 67.3



#95
Naphthalene
Concen: 1.255 ug/l
RT: 15.385 min Scan# 2289
Delta R.T. 0.000 min
Lab File: VD072036.D
Acq: 21 Feb 2022 16:58

Tgt Ion:128 Resp: 16010
Ion Ratio Lower Upper
128 100
127 18.6 10.3 15.5#
129 10.8 8.7 13.1

