

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD071621\
 Data File : VD069727.D
 Acq On : 16 Jul 2021 16:08
 Operator : VA/SY
 Sample : M3029-04
 Misc : 4.35G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Jul 17 00:53:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071321S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 14 06:00:31 2021
 Response via : Initial Calibration

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

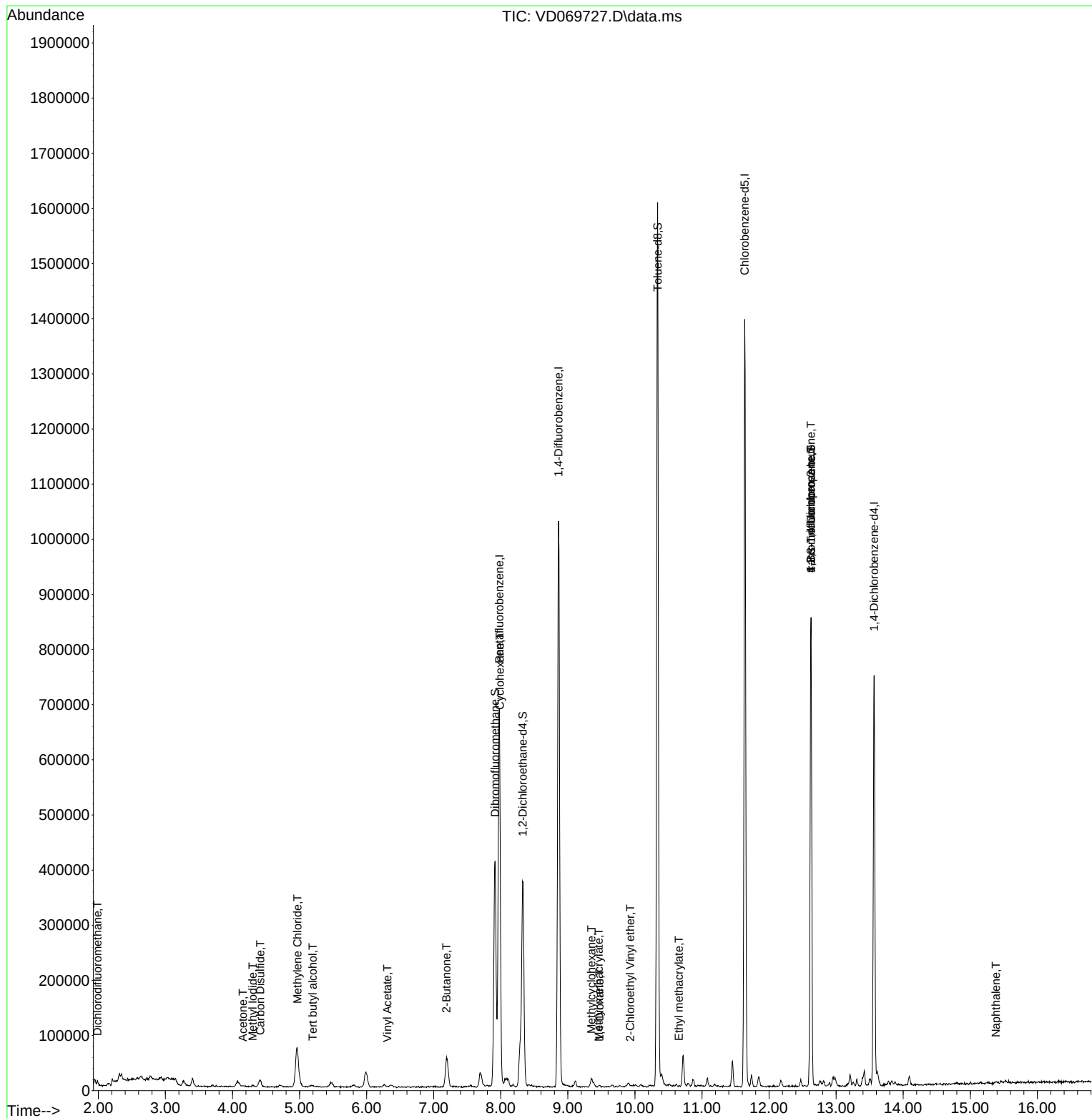
Internal Standards						
1) Pentafluorobenzene	7.979	168	473781	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	892262	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	791268	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	199851	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	290554	49.115	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	98.240%		
35) Dibromofluoromethane	7.914	113	297680	49.729	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	99.460%		
50) Toluene-d8	10.338	98	1088713	46.815	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	93.620%		
62) 4-Bromofluorobenzene	12.626	95	273825	35.305	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	70.600%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.985	85	5615	1.750	ug/l	95
5) Bromomethane	2.779	94	5852	Below Cal	#	80
10) Methyl Iodide	4.303	142	3794	3.081	ug/l	92
11) Tert butyl alcohol	5.197	59	3378	4.274	ug/l #	79
16) Acetone	4.156	43	2983	15.302	ug/l #	80
17) Carbon Disulfide	4.414	76	26770	1.891	ug/l #	92
18) Methyl Acetate	4.726	43	1091	Below Cal	#	49
20) Methylene Chloride	4.967	84	57526	2.327	ug/l	90
23) Vinyl Acetate	6.308	43	172	15.442	ug/l #	72
25) 2-Butanone	7.191	43	1527	1.092	ug/l #	75
31) Cyclohexane	7.985	56	16393	2.020	ug/l #	16
39) Methylcyclohexane	9.349	83	5218	2.414	ug/l #	76
48) Methyl methacrylate	9.461	41	852	1.354	ug/l #	76
49) 1,4-Dioxane	9.473	88	74	102.816	ug/l #	1
56) Ethyl methacrylate	10.655	69	1604	1.919	ug/l #	64
58) 2-Chloroethyl Vinyl ether	9.932	63	855	9.664	ug/l #	79
76) 1,2,3-Trichloropropane	12.626	75	135782	69.937	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.626	75	135782	187.952	ug/l #	14
95) Naphthalene	15.384	128	1658	2.456	ug/l #	86

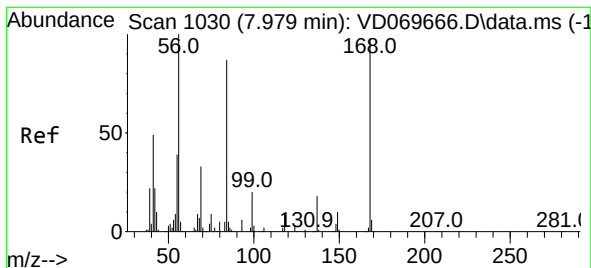
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

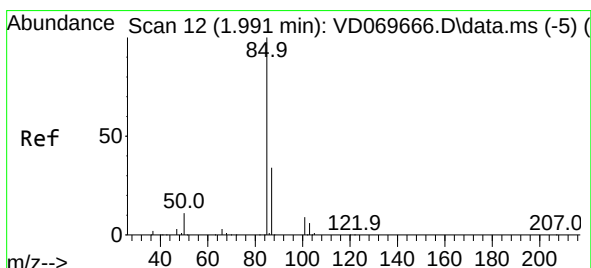
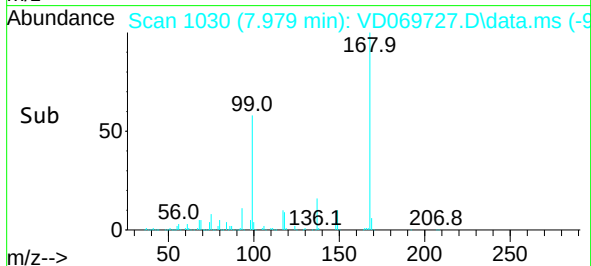
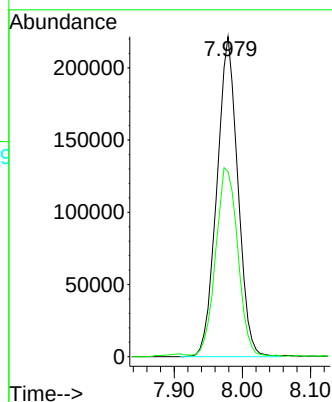
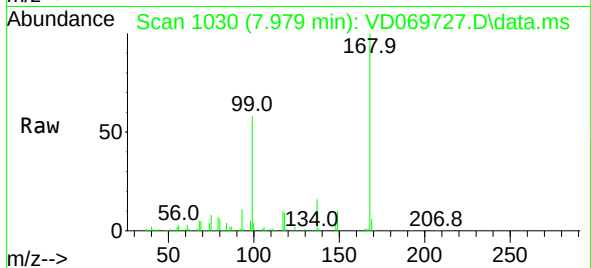




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

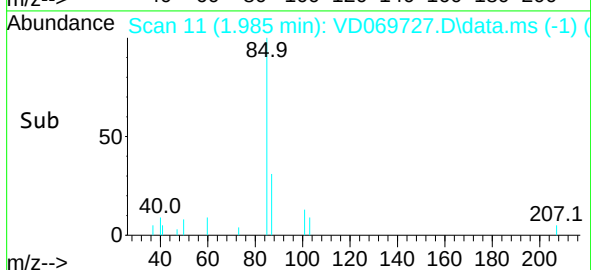
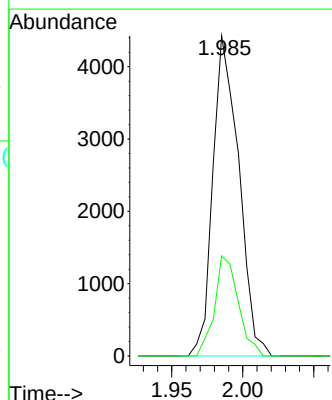
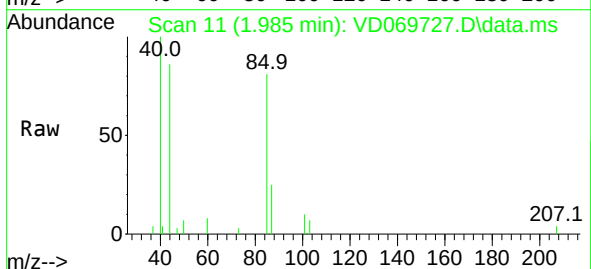
Instrument :
MSVOA_D
ClientSampleId :

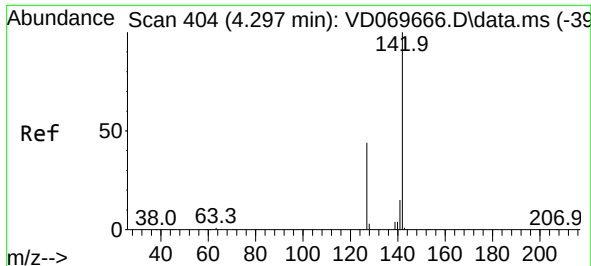
Tgt Ion:168 Resp: 473781
Ion Ratio Lower Upper
168 100
99 57.5 51.8 77.6



#2
Dichlorodifluoromethane
Concen: 1.750 ug/l
RT: 1.985 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

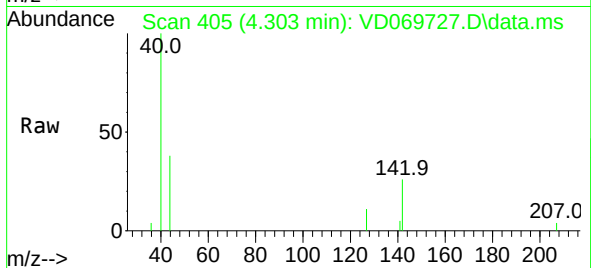
Tgt Ion: 85 Resp: 5615
Ion Ratio Lower Upper
85 100
87 31.3 17.0 51.0



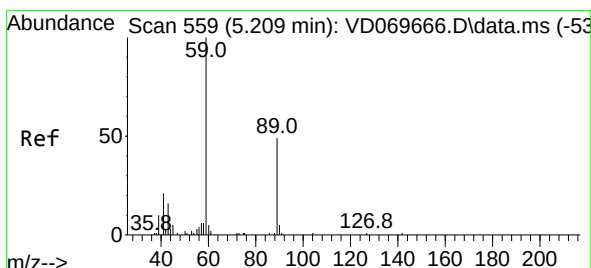
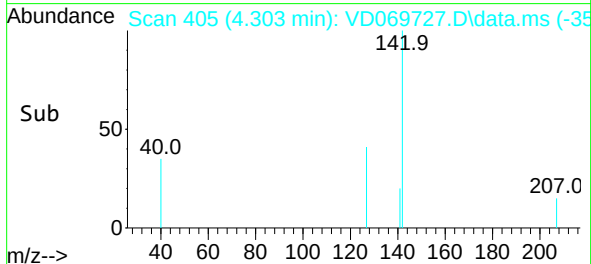
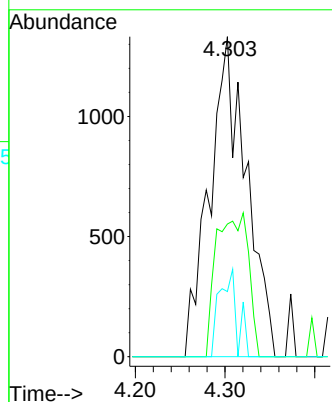


#10
Methyl Iodide
Concen: 3.081 ug/l
RT: 4.303 min Scan# 405
Delta R.T. 0.006 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

Instrument :
MSVOA_D
ClientSampled :

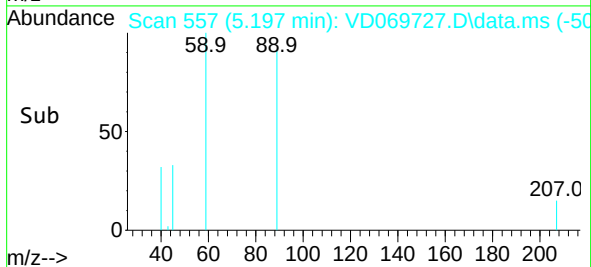
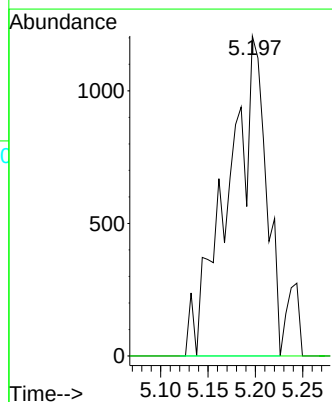
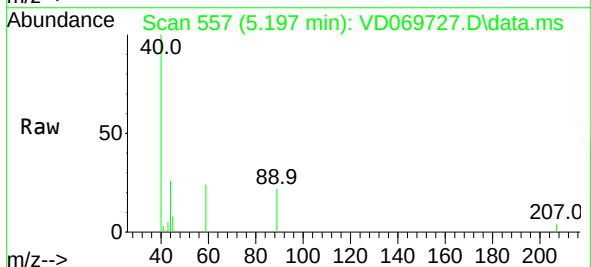


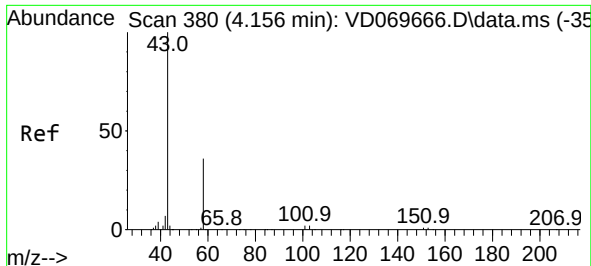
Tgt Ion:142 Resp: 3794
Ion Ratio Lower Upper
142 100
127 39.0 36.1 54.1
141 13.1 11.6 17.4



#11
Tert butyl alcohol
Concen: 4.274 ug/l
RT: 5.197 min Scan# 557
Delta R.T. -0.012 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

Tgt Ion: 59 Resp: 3378
Ion Ratio Lower Upper
59 100
57 0.0 5.7 8.5#

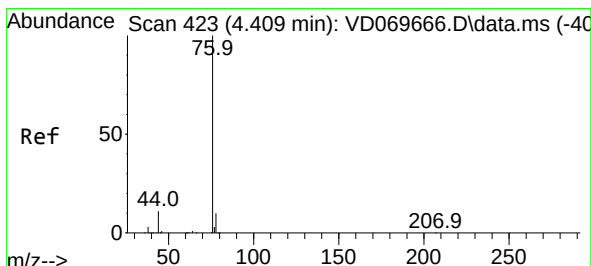
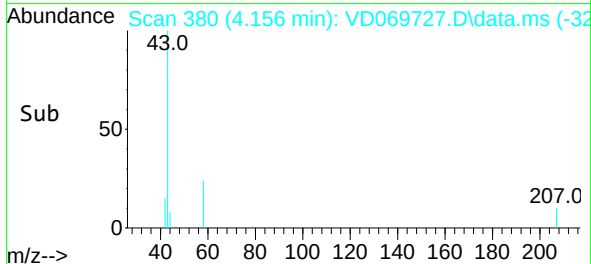
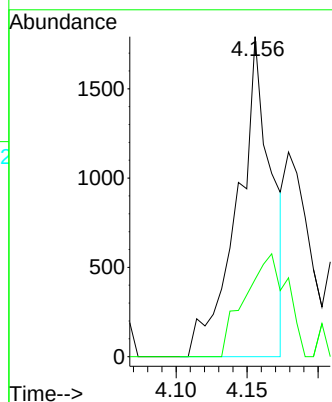
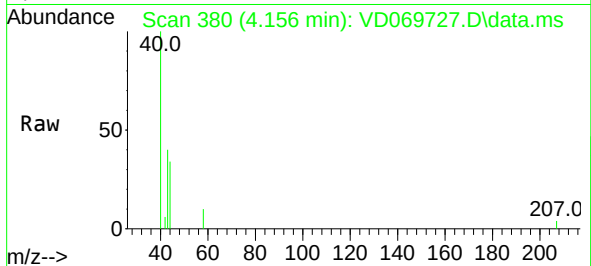




#16
Acetone
Concen: 15.302 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

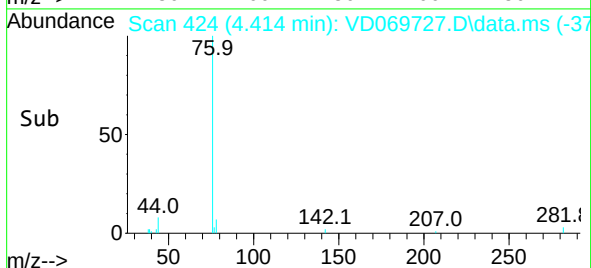
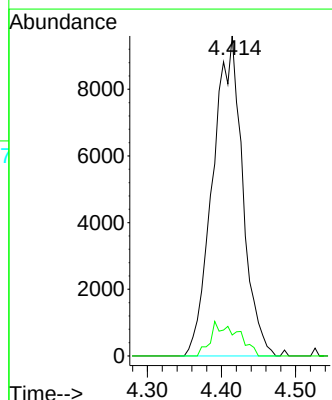
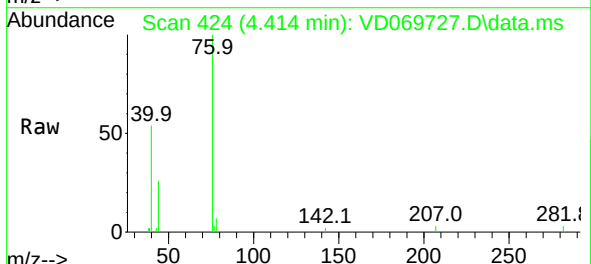
Instrument :
MSVOA_D
ClientSampleId :

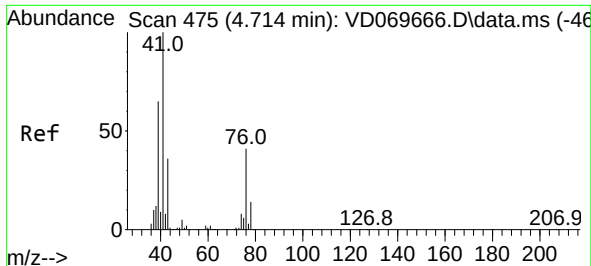
Tgt Ion: 43 Resp: 2983
Ion Ratio Lower Upper
43 100
58 24.2 28.6 42.8#



#17
Carbon Disulfide
Concen: 1.891 ug/l
RT: 4.414 min Scan# 424
Delta R.T. 0.005 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

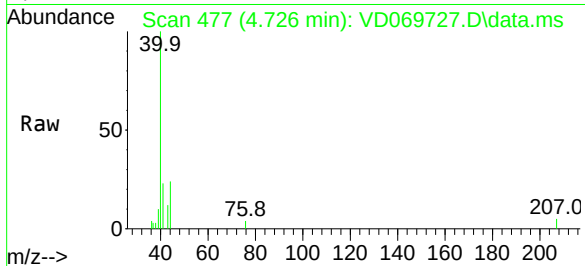
Tgt Ion: 76 Resp: 26770
Ion Ratio Lower Upper
76 100
78 6.6 7.6 11.4#



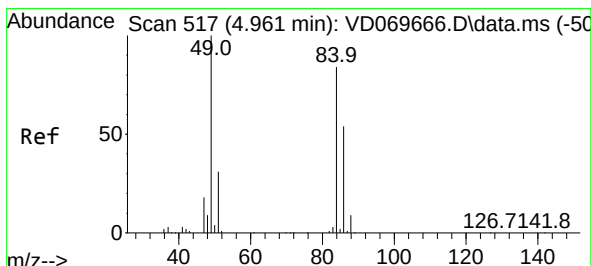
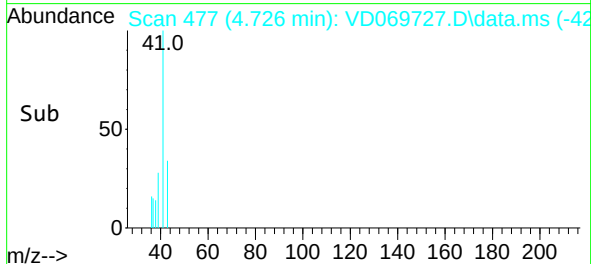
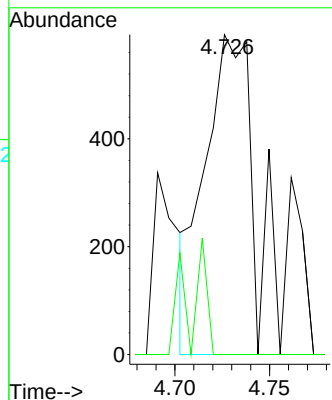


#18
Methyl Acetate
Concen: Below Cal
RT: 4.726 min Scan# 477
Delta R.T. 0.012 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

Instrument :
MSVOA_D
ClientSampleId :

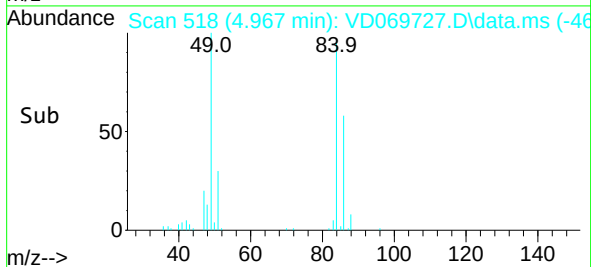
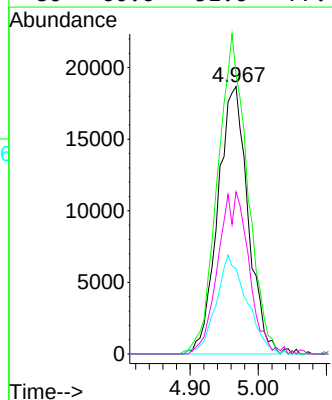
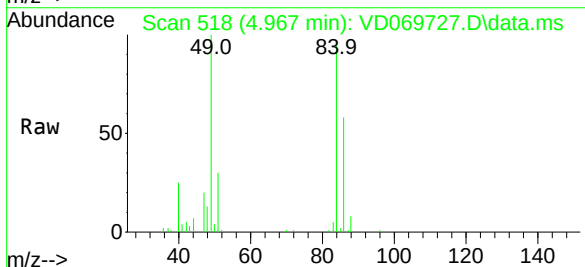


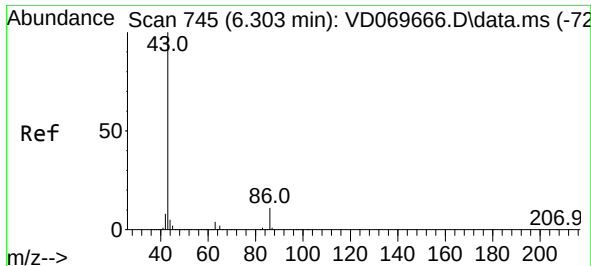
Tgt Ion: 43 Resp: 1091
Ion Ratio Lower Upper
43 100
74 0.0 20.6 30.8#



#20
Methylene Chloride
Concen: 2.327 ug/l
RT: 4.967 min Scan# 518
Delta R.T. 0.006 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

Tgt Ion: 84 Resp: 57526
Ion Ratio Lower Upper
84 100
49 104.5 95.5 143.3
51 31.8 29.7 44.5
86 60.6 51.6 77.4

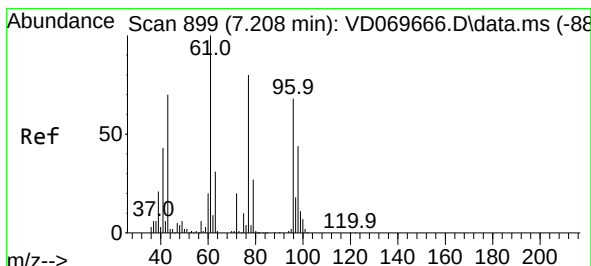
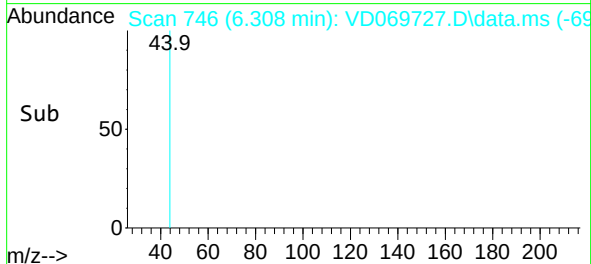
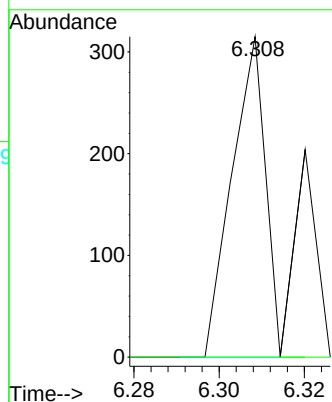
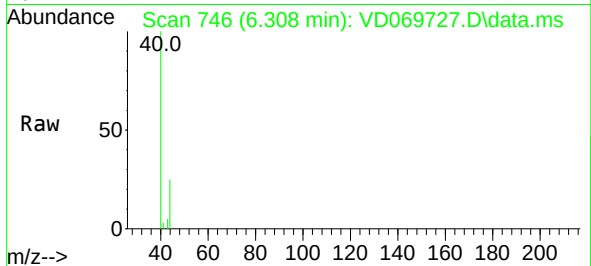




#23
 Vinyl Acetate
 Concen: 15.442 ug/l
 RT: 6.308 min Scan# 746
 Delta R.T. 0.005 min
 Lab File: VD069727.D
 Acq: 16 Jul 2021 16:08

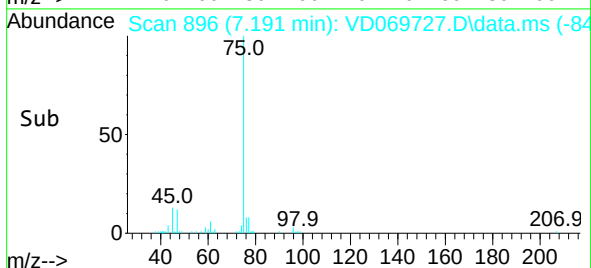
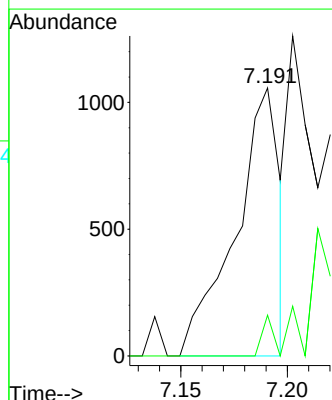
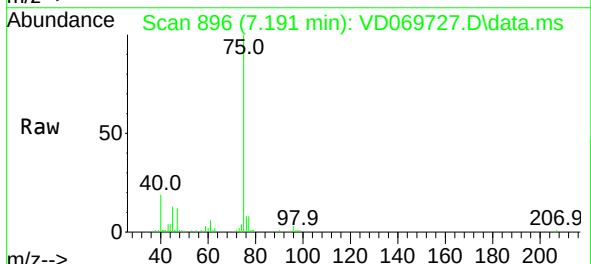
Instrument :
 MSVOA_D
 ClientSampled :

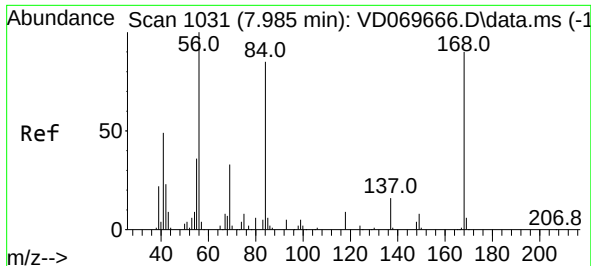
Tgt Ion: 43 Resp: 172
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.6 12.8#



#25
 2-Butanone
 Concen: 1.092 ug/l
 RT: 7.191 min Scan# 896
 Delta R.T. -0.017 min
 Lab File: VD069727.D
 Acq: 16 Jul 2021 16:08

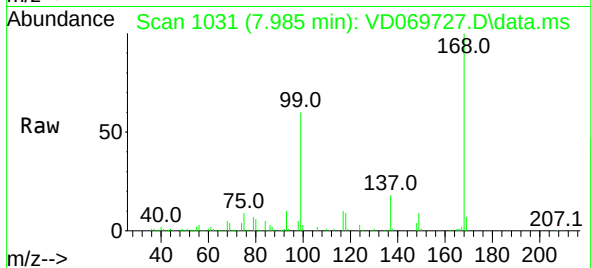
Tgt Ion: 43 Resp: 1527
 Ion Ratio Lower Upper
 43 100
 72 15.2 22.6 33.8#



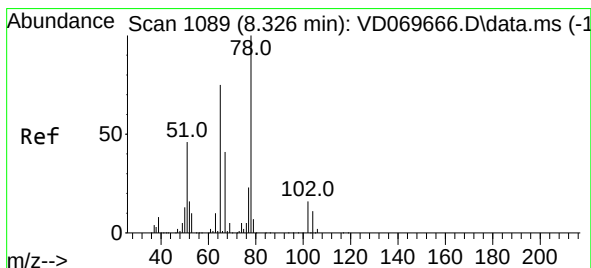
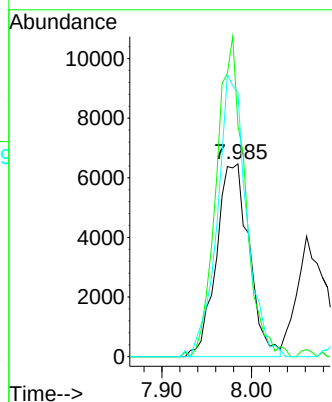
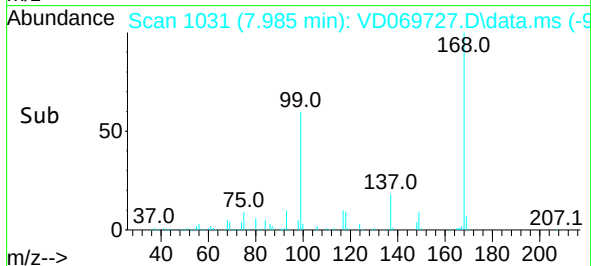


#31
Cyclohexane
Concen: 2.020 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. -0.000 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

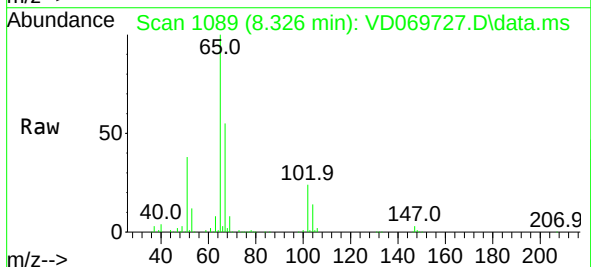
Instrument :
MSVOA_D
ClientSampleId :



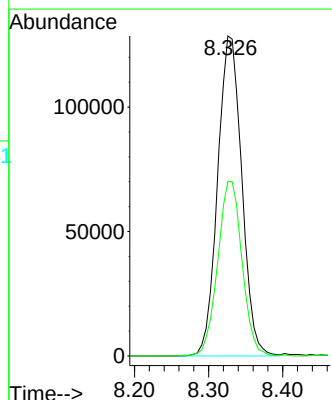
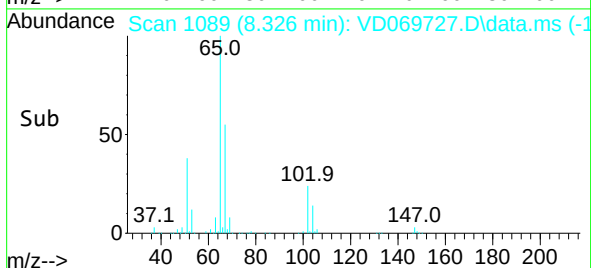
Tgt Ion: 56 Resp: 16393
Ion Ratio Lower Upper
56 100
69 119.8 26.6 39.8#
84 136.9 68.2 102.2#

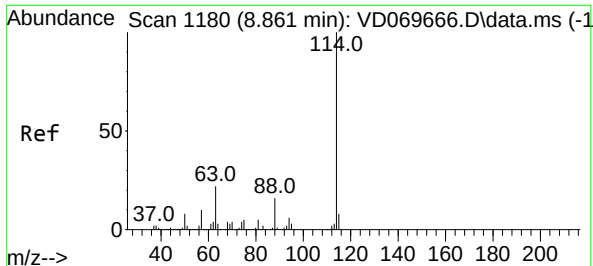


#33
1,2-Dichloroethane-d4
Concen: 49.115 ug/l
RT: 8.326 min Scan# 1089
Delta R.T. -0.000 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08



Tgt Ion: 65 Resp: 290554
Ion Ratio Lower Upper
65 100
67 55.3 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD069727.D

Acq: 16 Jul 2021 16:08

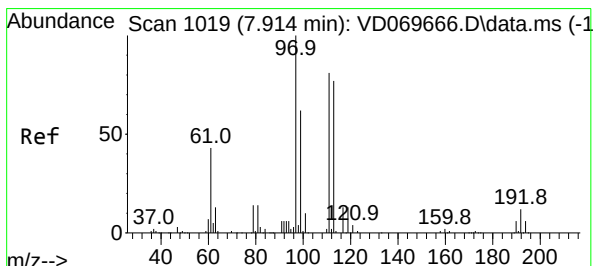
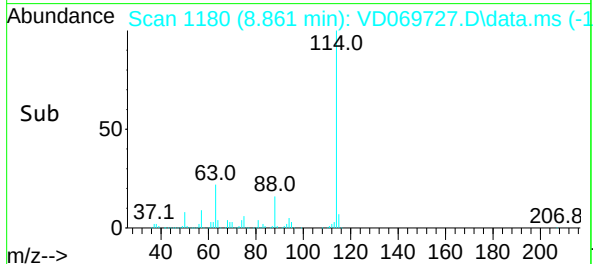
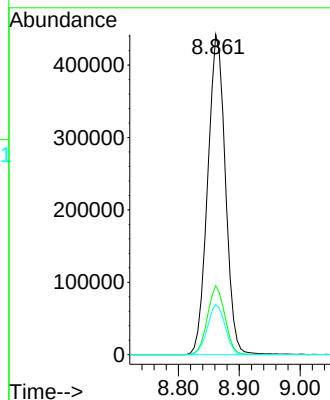
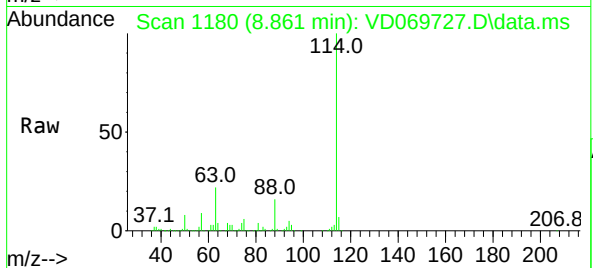
Tgt Ion:114 Resp: 892262

Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.4

88 15.6 0.0 32.0



#35

Dibromofluoromethane

Concen: 49.729 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VD069727.D

Acq: 16 Jul 2021 16:08

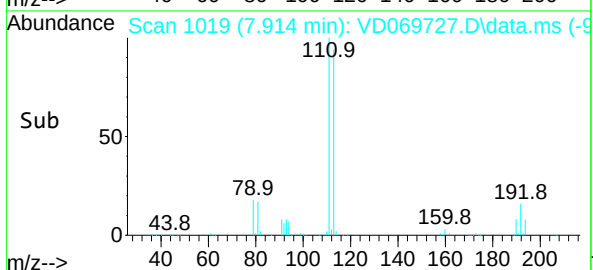
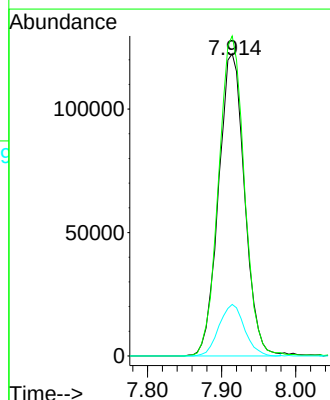
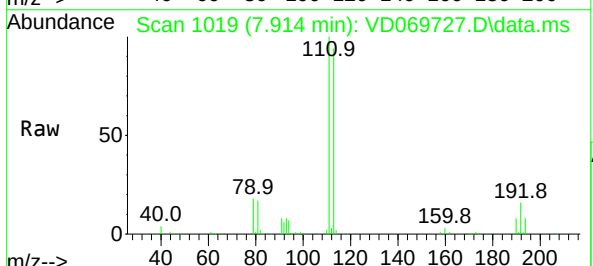
Tgt Ion:113 Resp: 297680

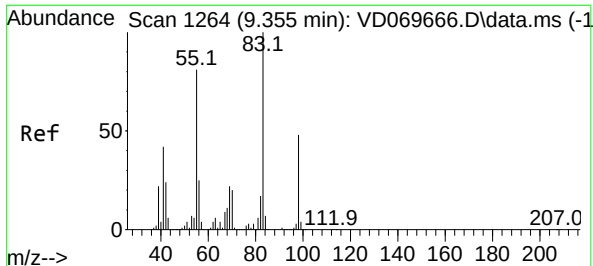
Ion Ratio Lower Upper

113 100

111 105.1 82.6 123.8

192 16.8 12.7 19.1





#39

Methylcyclohexane

Concen: 2.414 ug/l

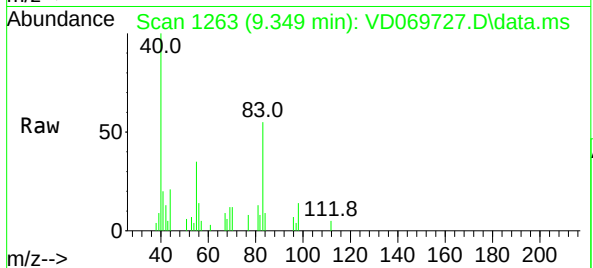
RT: 9.349 min Scan# 1263

Delta R.T. -0.006 min

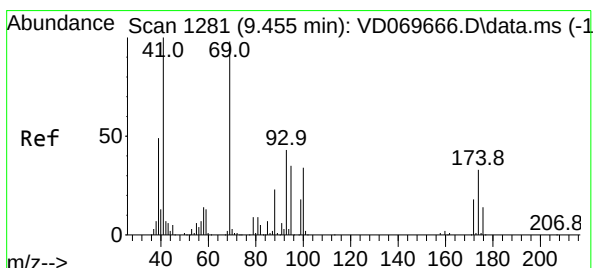
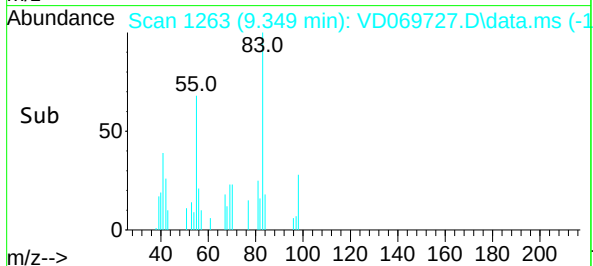
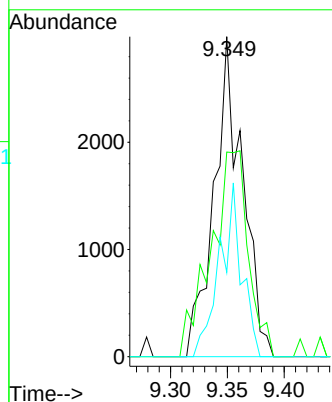
Lab File: VD069727.D

Acq: 16 Jul 2021 16:08

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 83	Resp: 5218
Ion Ratio	Lower Upper
83	100
55	63.9 64.6 97.0#
98	26.4 38.4 57.6#



#48

Methyl methacrylate

Concen: 1.354 ug/l

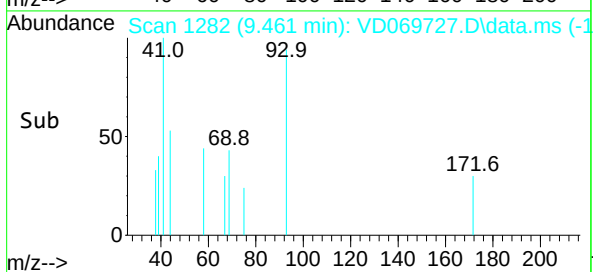
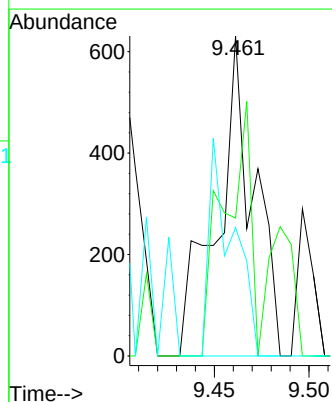
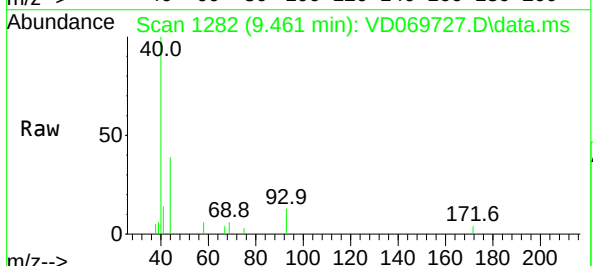
RT: 9.461 min Scan# 1282

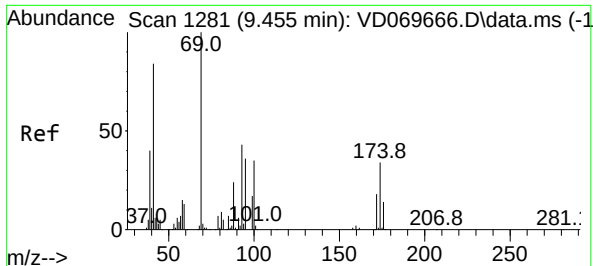
Delta R.T. 0.006 min

Lab File: VD069727.D

Acq: 16 Jul 2021 16:08

Tgt Ion: 41	Resp: 852
Ion Ratio	Lower Upper
41	100
69	57.3 71.6 107.4#
39	44.1 36.7 55.1

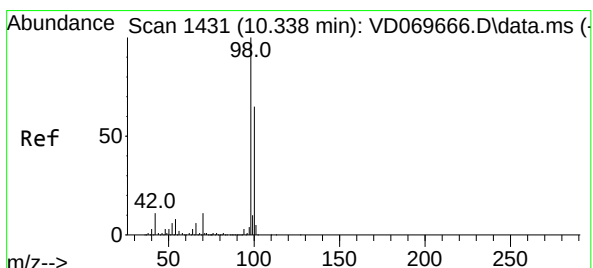
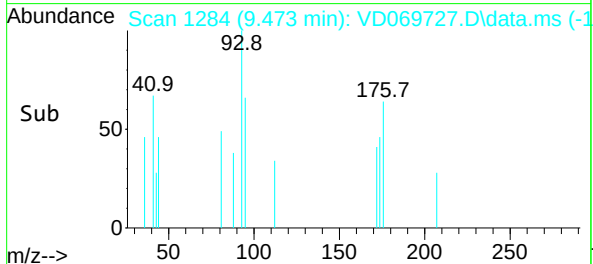
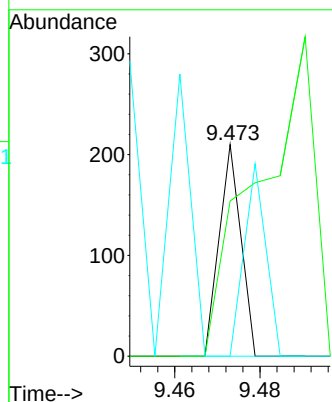
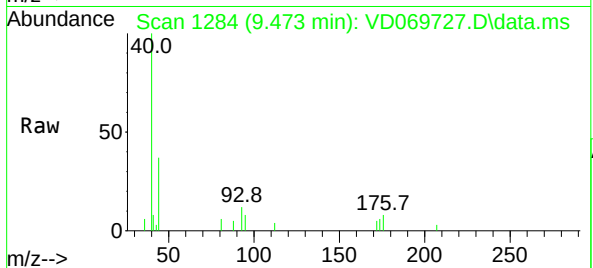




#49
1,4-Dioxane
Concen: 102.816 ug/l
RT: 9.473 min Scan# 1284
Delta R.T. 0.018 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

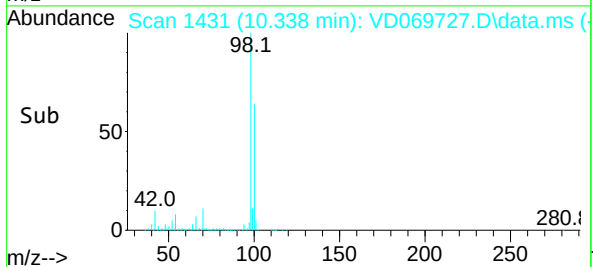
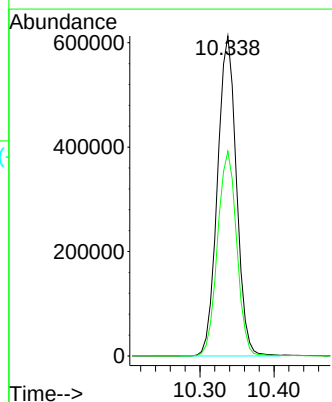
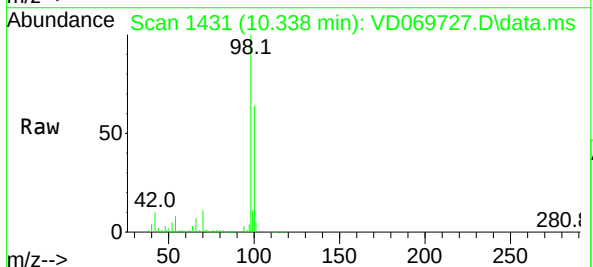
Instrument :
MSVOA_D
ClientSampled :

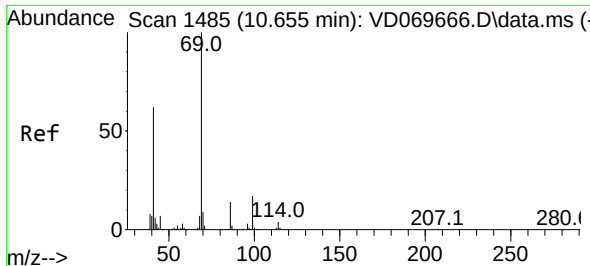
Tgt Ion	Ratio	Lower	Upper
88	100		
43	391.9	25.3	37.9#
58	90.5	62.6	94.0



#50
Toluene-d8
Concen: 46.815 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. -0.000 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.5	52.2	78.2

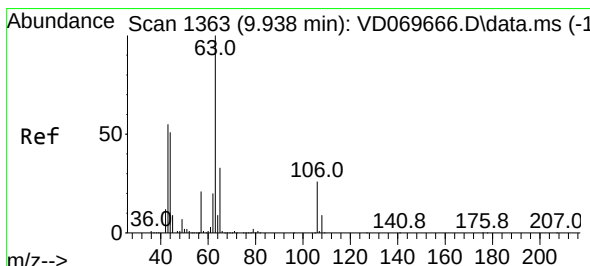
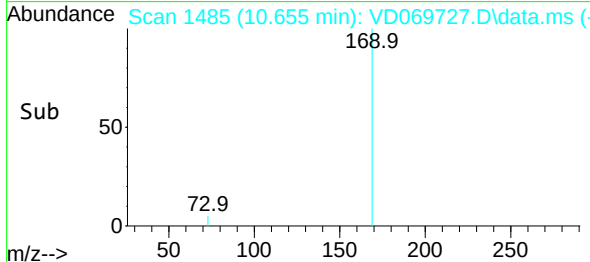
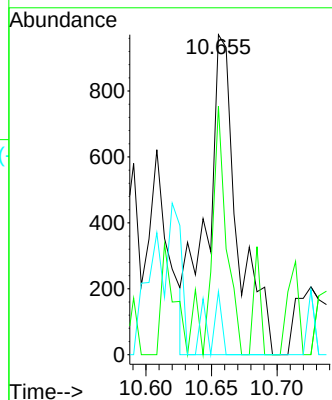
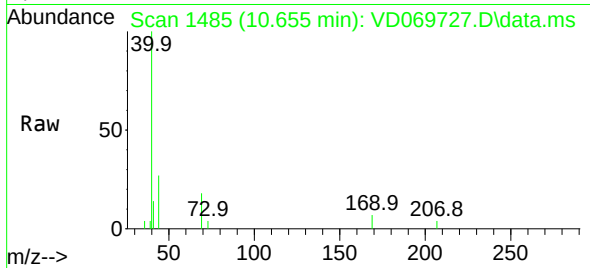




#56
Ethyl methacrylate
Concen: 1.919 ug/l
RT: 10.655 min Scan# 1485
Delta R.T. 0.000 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

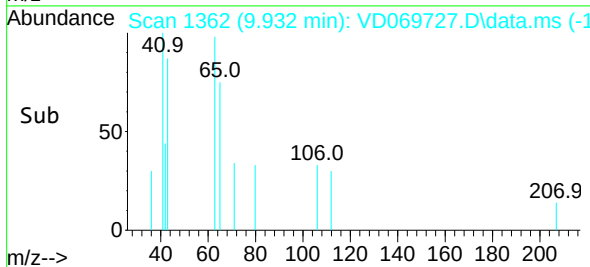
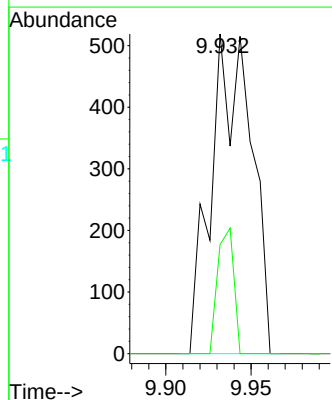
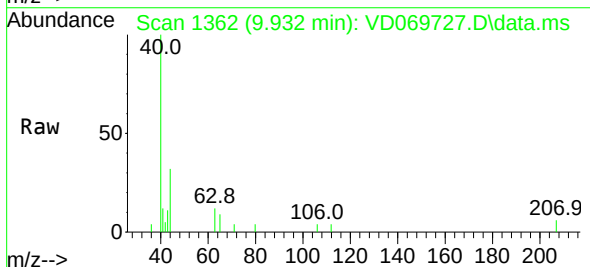
Instrument :
MSVOA_D
ClientSampleId :

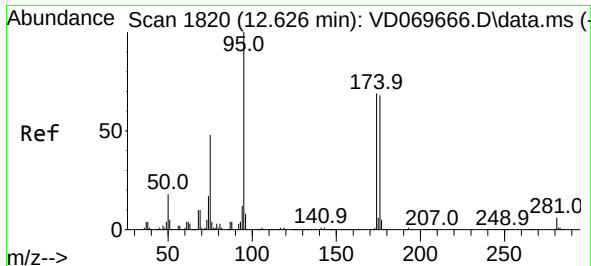
Tgt Ion: 69 Resp: 1604
Ion Ratio Lower Upper
69 100
41 38.0 49.5 74.3#
39 3.7 22.5 33.7#



#58
2-Chloroethyl Vinyl ether
Concen: 9.664 ug/l
RT: 9.932 min Scan# 1362
Delta R.T. -0.006 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

Tgt Ion: 63 Resp: 855
Ion Ratio Lower Upper
63 100
106 15.7 21.1 31.7#

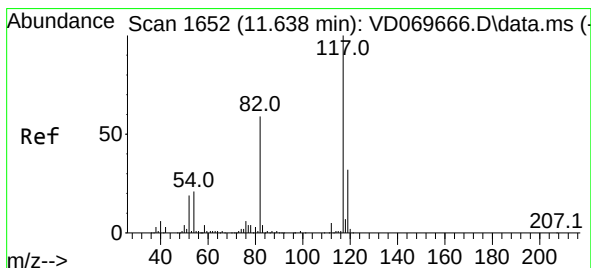
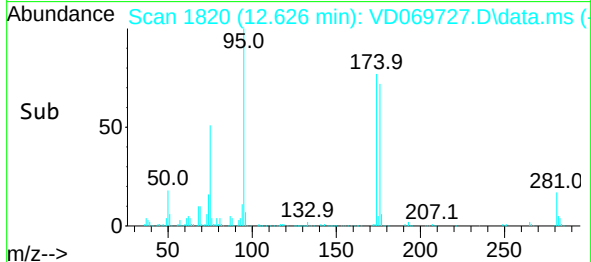
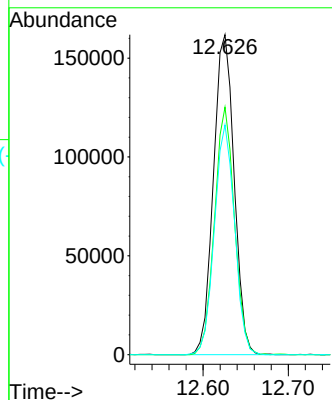
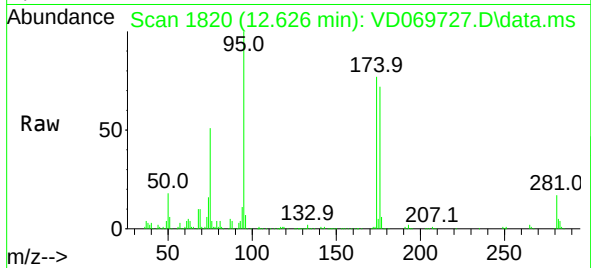




#62
4-Bromofluorobenzene
Concen: 35.305 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

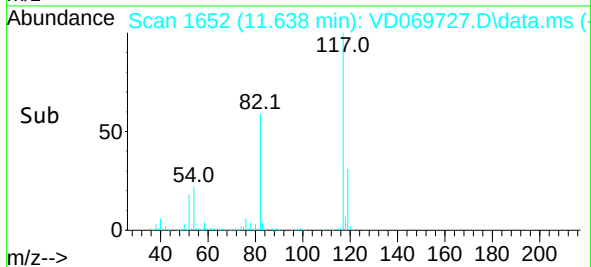
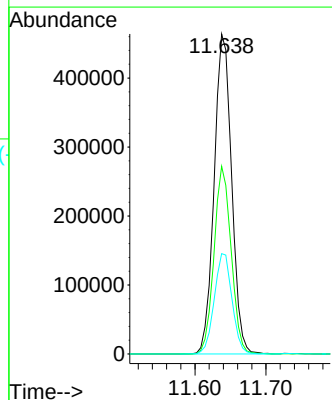
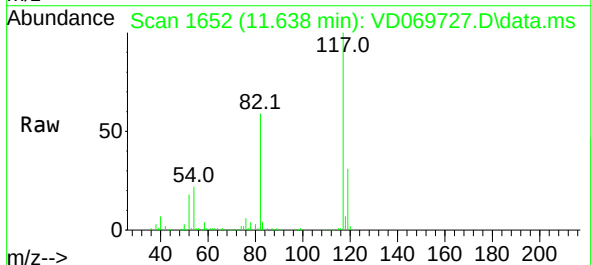
Instrument :
MSVOA_D
ClientSampleId :

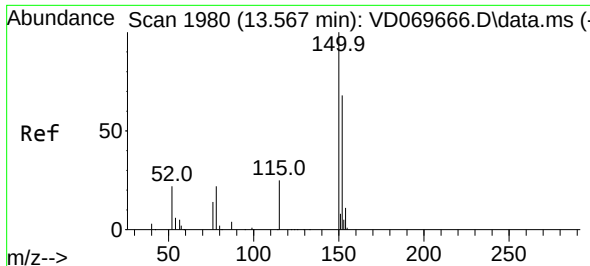
Tgt Ion: 95 Resp: 273825
Ion Ratio Lower Upper
95 100
174 74.6 0.0 140.0
176 70.0 0.0 136.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

Tgt Ion: 117 Resp: 791268
Ion Ratio Lower Upper
117 100
82 58.6 47.4 71.2
119 31.4 25.5 38.3

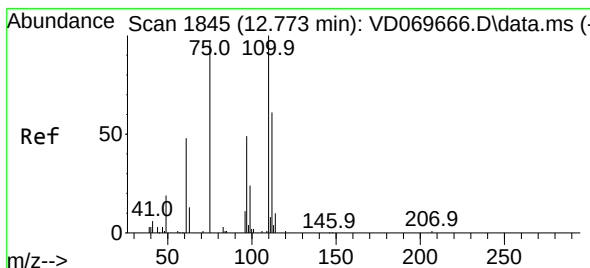
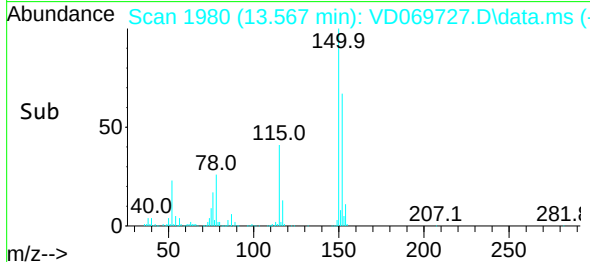
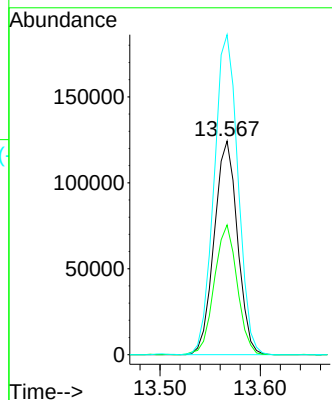
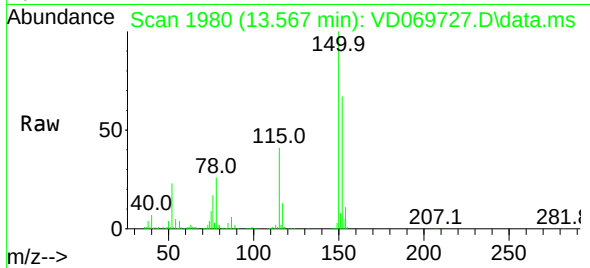




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.567 min Scan# 1980
 Delta R.T. -0.000 min
 Lab File: VD069727.D
 Acq: 16 Jul 2021 16:08

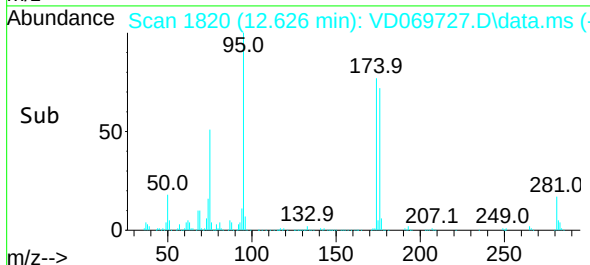
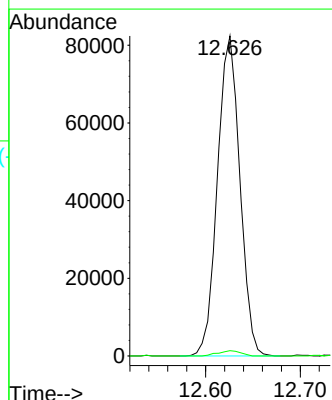
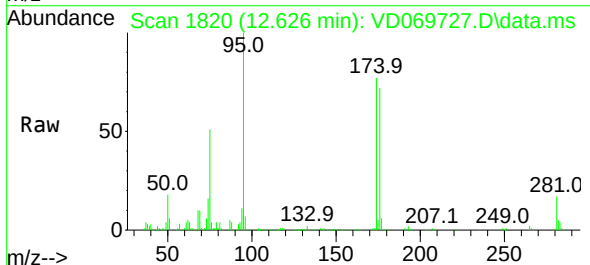
Instrument :
 MSVOA_D
 ClientSampleId :

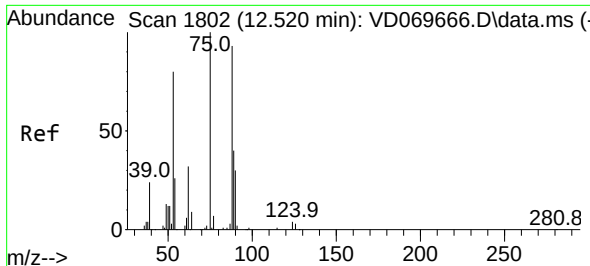
Tgt Ion:152 Resp: 199851
 Ion Ratio Lower Upper
 152 100
 115 59.9 31.7 95.1
 150 154.0 0.0 350.4



#76
 1,2,3-Trichloropropane
 Concen: 69.937 ug/l
 RT: 12.626 min Scan# 1820
 Delta R.T. -0.147 min
 Lab File: VD069727.D
 Acq: 16 Jul 2021 16:08

Tgt Ion: 75 Resp: 135782
 Ion Ratio Lower Upper
 75 100
 77 1.7 0.0 0.0#

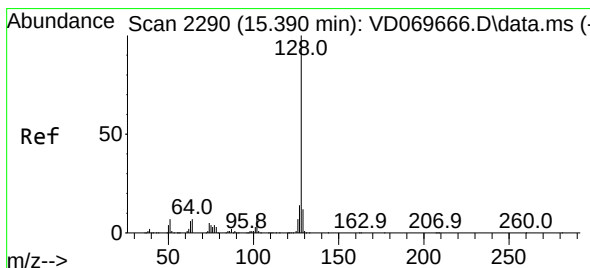
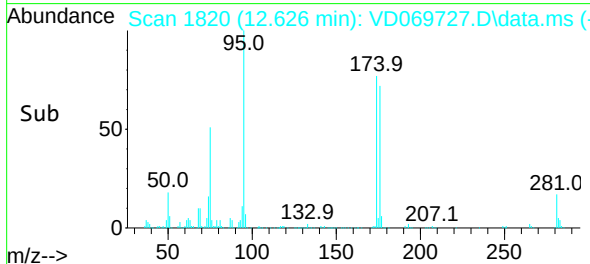
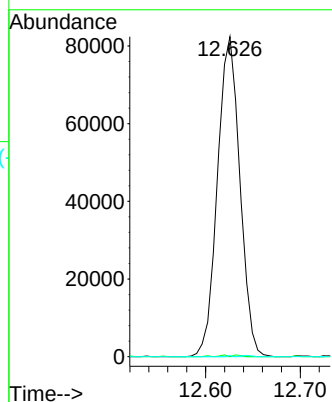
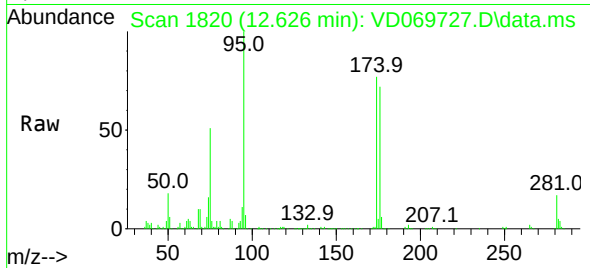




#81
trans-1,4-Dichloro-2-butene
Concen: 187.952 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. 0.106 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion: 75 Resp: 135782
Ion Ratio Lower Upper
75 100
53 0.2 70.6 106.0#
89 0.1 35.1 52.7#



#95
Naphthalene
Concen: 2.456 ug/l
RT: 15.384 min Scan# 2289
Delta R.T. -0.006 min
Lab File: VD069727.D
Acq: 16 Jul 2021 16:08

Tgt Ion:128 Resp: 1658
Ion Ratio Lower Upper
128 100
127 4.0 10.6 16.0#
129 12.2 8.8 13.2

