

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122721\
 Data File : VD071489.D
 Acq On : 27 Dec 2021 17:06
 Operator : VA/SY
 Sample : M5181-01RE
 Misc : 5.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 27 17:27:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122221S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 23 08:20:24 2021
 Response via : Initial Calibration

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

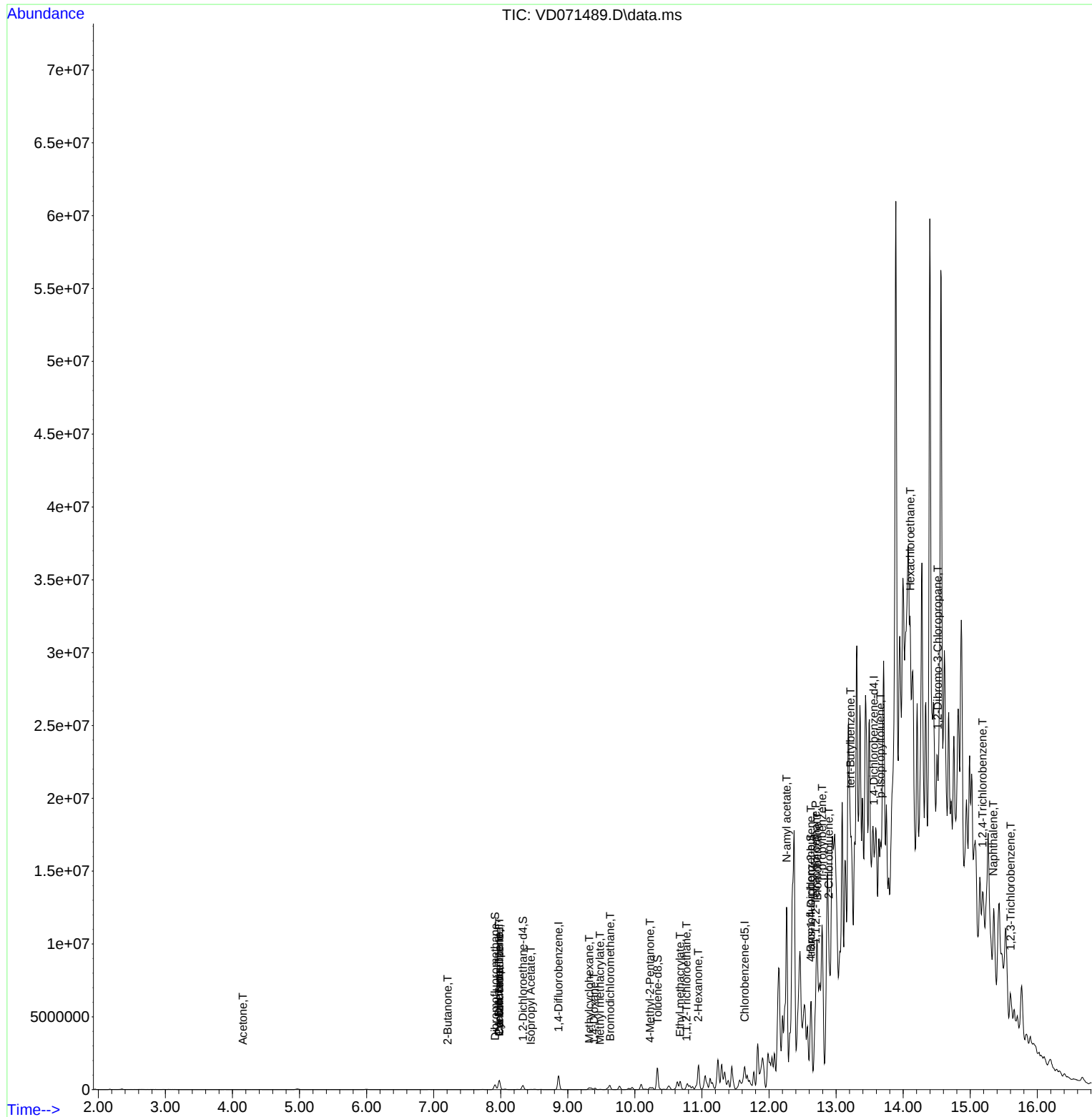
Internal Standards						
1) Pentafluorobenzene	7.979	168	440352	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	752960	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	626551	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	617918	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.332	65	222322	38.015	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	76.040%		
35) Dibromofluoromethane	7.914	113	226784	44.815	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	89.620%		
50) Toluene-d8	10.338	98	914102	47.800	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery =	95.600%		
62) 4-Bromofluorobenzene	12.620	95	717393	105.568	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery =	211.140%#		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.203	59	323	Below Cal	#	71
16) Acetone	4.156	43	2148	1.462	ug/l #	71
20) Methylene Chloride	4.968	84	31382	Below Cal		88
25) 2-Butanone	7.209	43	1770	1.009	ug/l #	45
31) Cyclohexane	7.973	56	13169	1.326	ug/l #	3
36) 1,1-Dichloropropene	7.973	75	39484	4.884	ug/l #	49
38) Carbon Tetrachloride	7.979	117	46603	5.843	ug/l #	16
39) Methylcyclohexane	9.320	83	23422	2.475	ug/l #	30
43) Isopropyl Acetate	8.450	43	11487	1.551	ug/l #	55
47) Bromodichloromethane	9.632	83	8077	1.021	ug/l #	42
48) Methyl methacrylate	9.479	41	5682	1.550	ug/l #	30
49) 1,4-Dioxane	9.391	88	55	1.562	ug/l #	1
51) 4-Methyl-2-Pentanone	10.226	43	5873	1.507	ug/l #	34
55) 1,1,2-Trichloroethane	10.767	97	64060	16.198	ug/l #	32
56) Ethyl methacrylate	10.673	69	46806	8.993	ug/l #	1
59) 2-Hexanone	10.944	43	704850	255.881	ug/l #	27
74) N-amyl acetate	12.261	43	3005506	235.151	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.697	83	537276	62.381	ug/l #	25
77) Bromobenzene	12.720	156	13340	1.258	ug/l #	1
78) n-propylbenzene	12.791	91	76528	1.282	ug/l #	56
79) 2-Chlorotoluene	12.891	91	160223	4.801	ug/l #	42
81) trans-1,4-Dichloro-2-b...	12.626	75	156517	60.235	ug/l #	67
83) tert-Butylbenzene	13.214	119	70477	2.099	ug/l #	1
86) p-Isopropyltoluene	13.661	119	213533	5.028	ug/l #	53
90) Hexachloroethane	14.108	117	36592	4.548	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.514	75	8622	5.773	ug/l #	4
93) 1,2,4-Trichlorobenzene	15.185	180	68757	6.227	ug/l #	78
95) Naphthalene	15.343	128	61866	2.944	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.602	180	42809	4.483	ug/l #	13

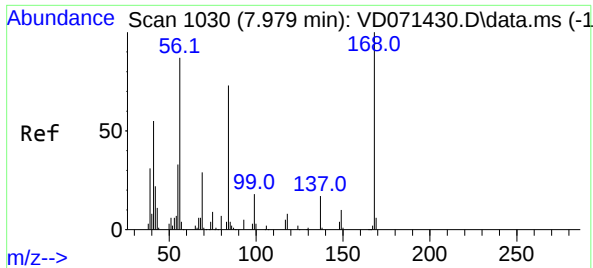
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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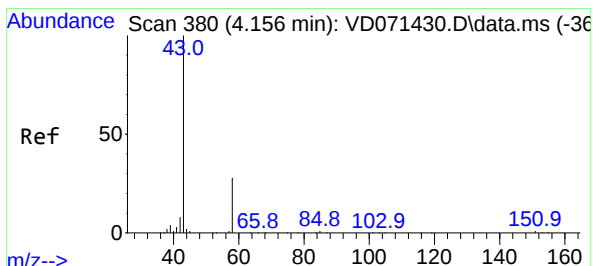
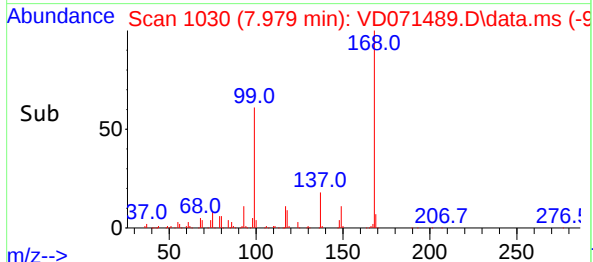
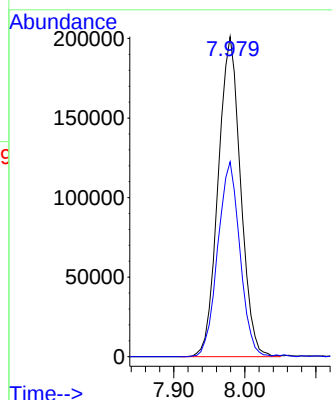
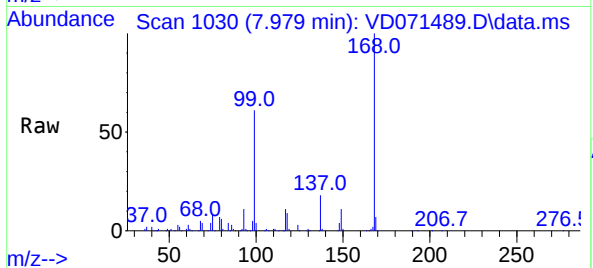




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.006 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

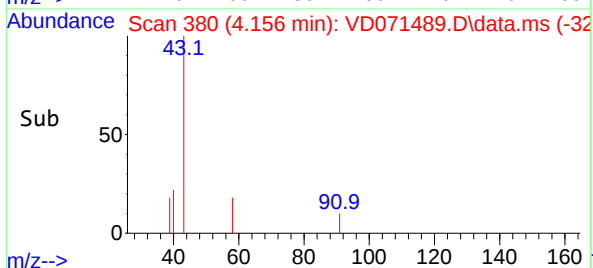
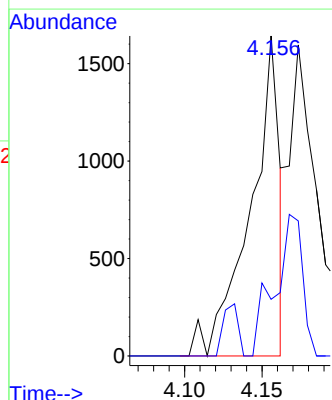
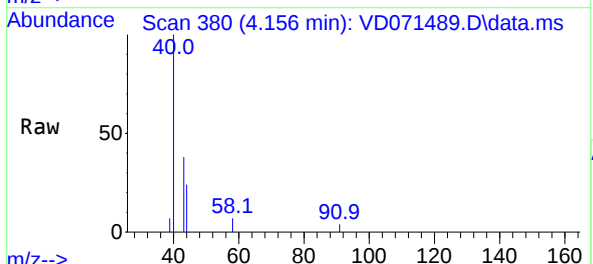
Instrument :
MSVOA_D
ClientSampleId :

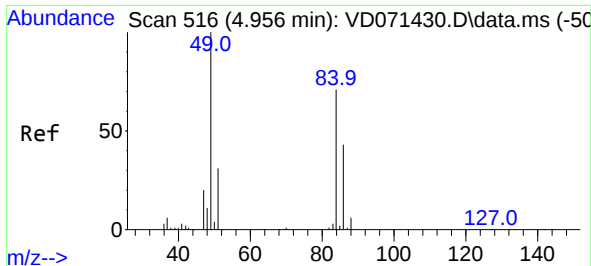
Tgt Ion:168 Resp: 440352
Ion Ratio Lower Upper
168 100
99 60.9 46.6 69.8



#16
Acetone
Concen: 1.462 ug/l
RT: 4.156 min Scan# 380
Delta R.T. -0.000 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

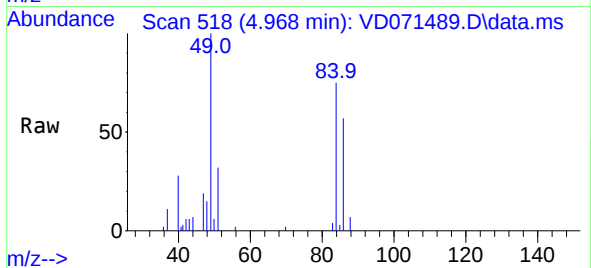
Tgt Ion: 43 Resp: 2148
Ion Ratio Lower Upper
43 100
58 17.7 27.8 41.8#





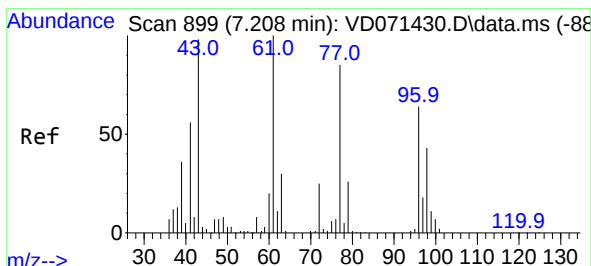
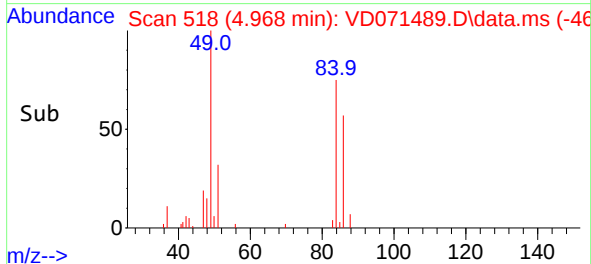
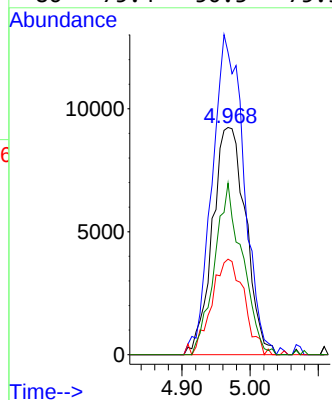
#20
Methylene Chloride
Concen: Below Cal
RT: 4.968 min Scan# 516
Delta R.T. 0.007 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion: 84 Resp: 31382

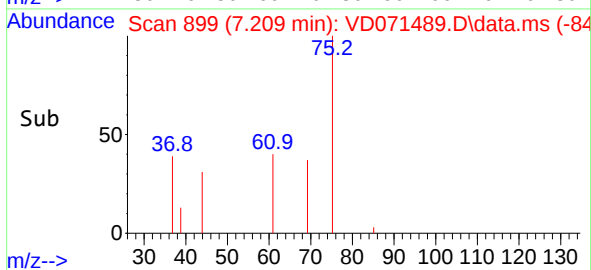
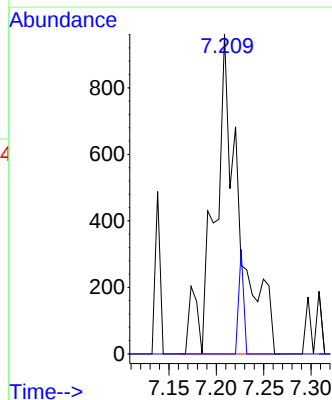
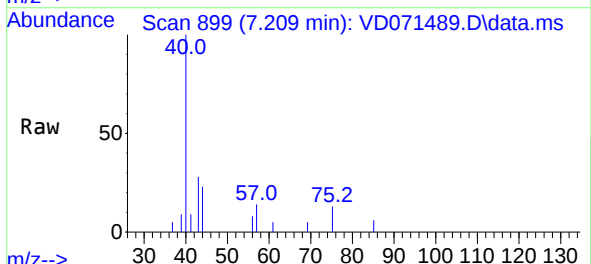
Ion	Ratio	Lower	Upper
84	100		
49	133.0	95.8	143.6
51	42.0	30.9	46.3
86	75.4	50.3	75.5

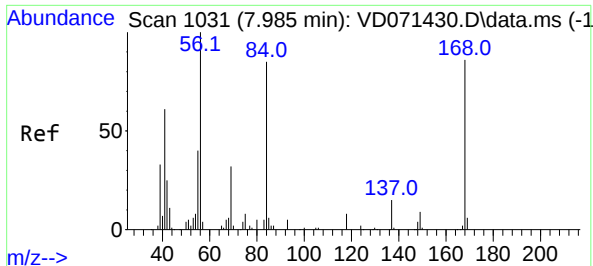


#25
2-Butanone
Concen: 1.009 ug/l
RT: 7.209 min Scan# 899
Delta R.T. 0.001 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion: 43 Resp: 1770

Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.8	35.6





#31

Cyclohexane

Concen: 1.326 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.012 min

Lab File: VD071489.D

Acq: 27 Dec 2021 17:06

Instrument :

MSVOA_D

ClientSampleId :

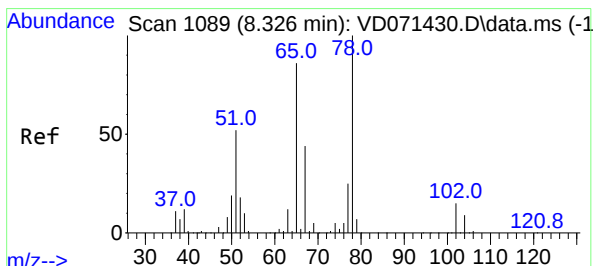
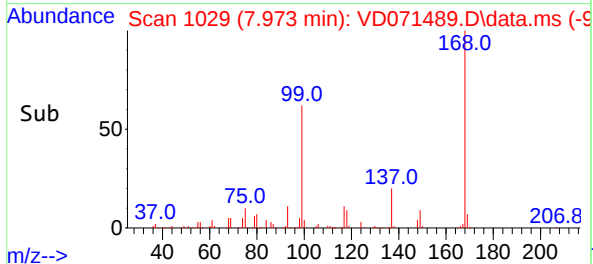
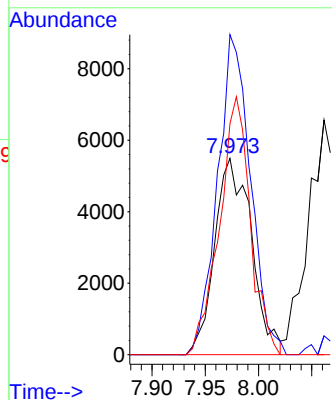
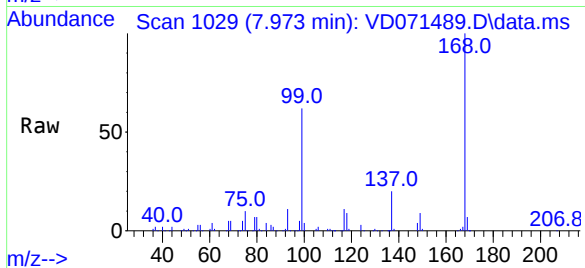
Tgt Ion: 56 Resp: 13169

Ion Ratio Lower Upper

56 100

69 162.9 25.9 38.9#

84 117.6 64.3 96.5#



#33

1,2-Dichloroethane-d4

Concen: 38.015 ug/l

RT: 8.332 min Scan# 1090

Delta R.T. 0.006 min

Lab File: VD071489.D

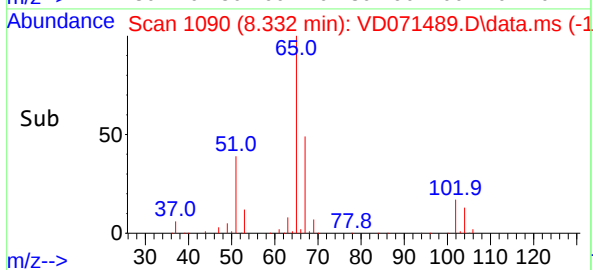
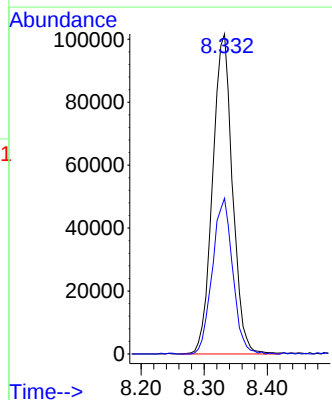
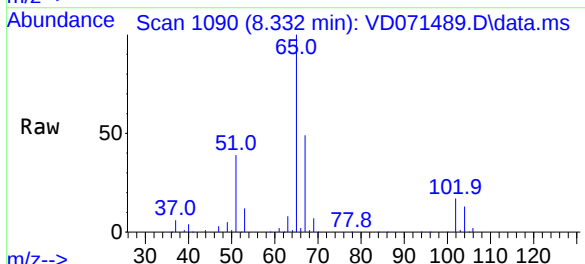
Acq: 27 Dec 2021 17:06

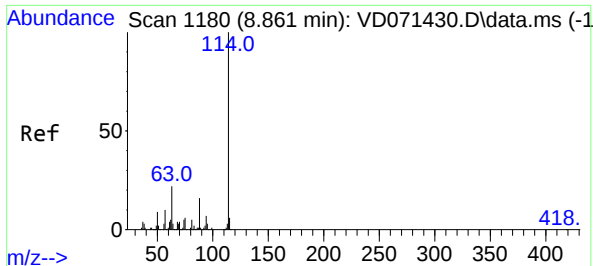
Tgt Ion: 65 Resp: 222322

Ion Ratio Lower Upper

65 100

67 49.6 0.0 112.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD071489.D

Acq: 27 Dec 2021 17:06

Instrument :

MSVOA_D

ClientSampleId :

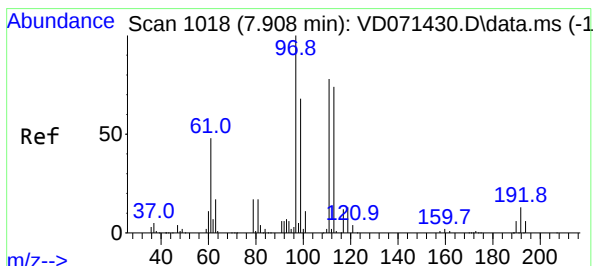
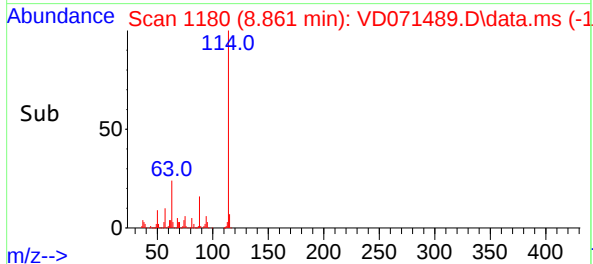
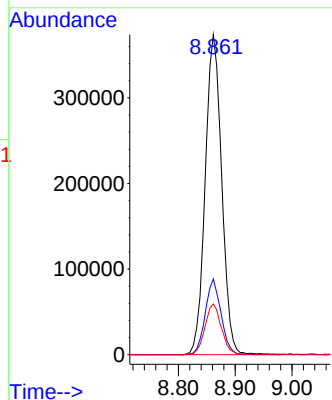
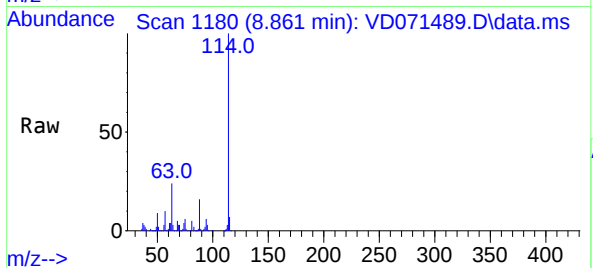
Tgt Ion:114 Resp: 752960

Ion Ratio Lower Upper

114 100

63 23.6 0.0 41.8

88 15.9 0.0 32.8



#35

Dibromofluoromethane

Concen: 44.815 ug/l

RT: 7.914 min Scan# 1019

Delta R.T. 0.006 min

Lab File: VD071489.D

Acq: 27 Dec 2021 17:06

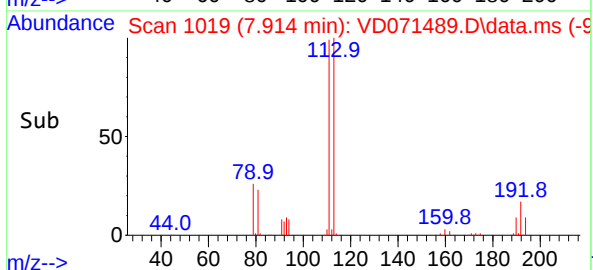
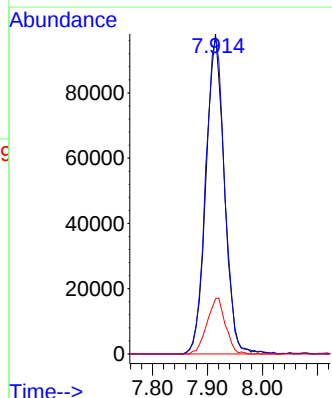
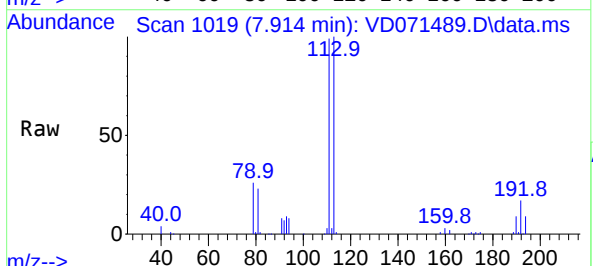
Tgt Ion:113 Resp: 226784

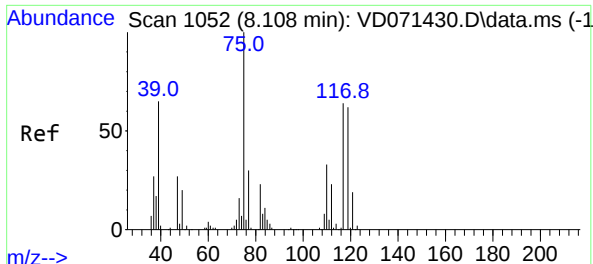
Ion Ratio Lower Upper

113 100

111 102.6 82.0 123.0

192 17.5 15.2 22.8





#36

1,1-Dichloropropene

Concen: 4.884 ug/l

RT: 7.973 min Scan# 1029

Delta R.T. -0.135 min

Lab File: VD071489.D

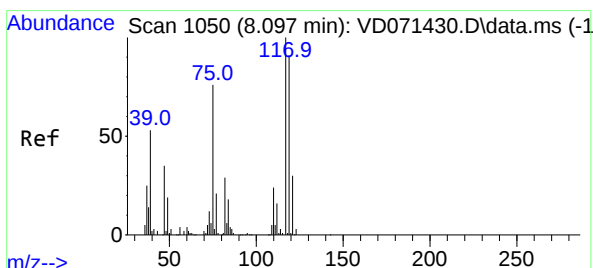
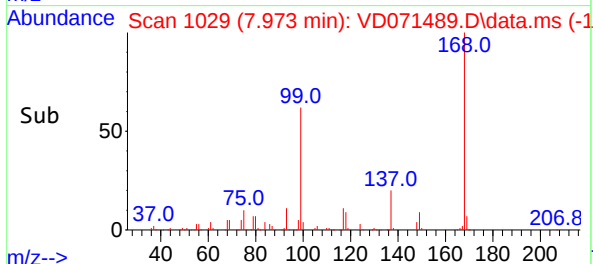
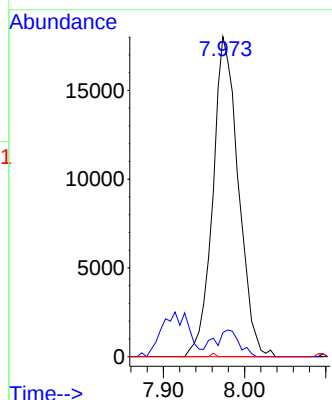
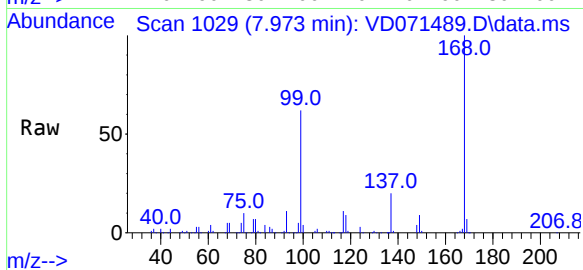
Acq: 27 Dec 2021 17:06

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	75	Resp:	39484
Ion Ratio	Lower	Upper	
75	100		
110	8.0	17.8	53.4#
77	0.2	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 5.843 ug/l

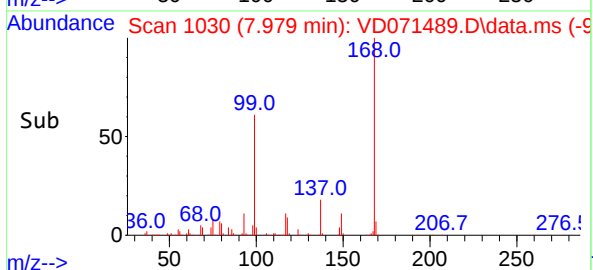
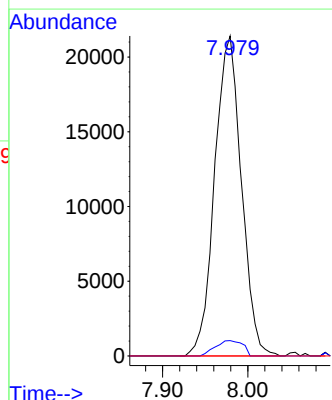
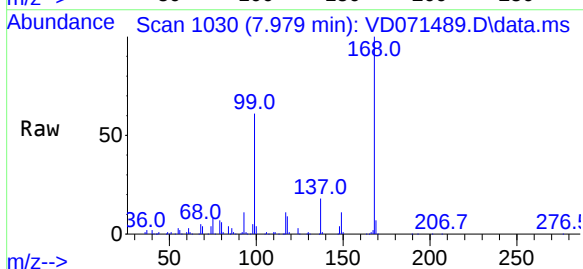
RT: 7.979 min Scan# 1030

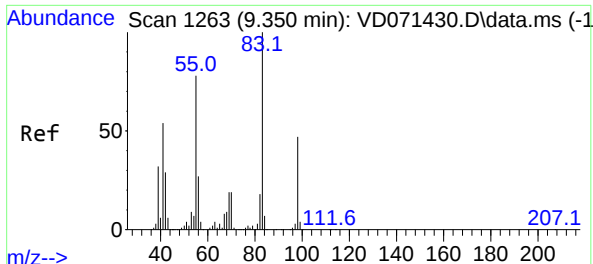
Delta R.T. -0.118 min

Lab File: VD071489.D

Acq: 27 Dec 2021 17:06

Tgt Ion:	117	Resp:	46603
Ion Ratio	Lower	Upper	
117	100		
119	4.8	75.8	113.6#
121	0.0	23.6	35.4#





#39

Methylcyclohexane

Concen: 2.475 ug/l

RT: 9.320 min Scan# 1110

Delta R.T. -0.029 min

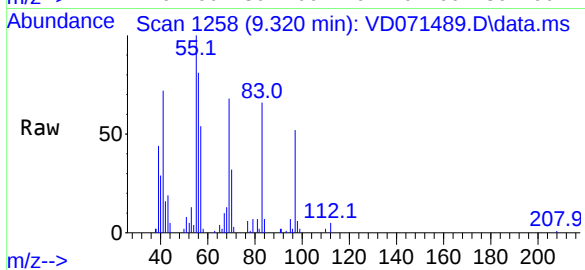
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Acq: 27 Dec 2021 17:06

Instrument :

MSVOA_D

ClientSampleId :



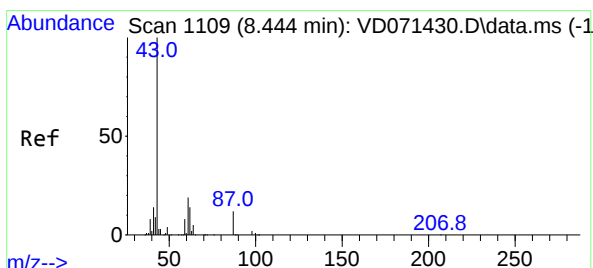
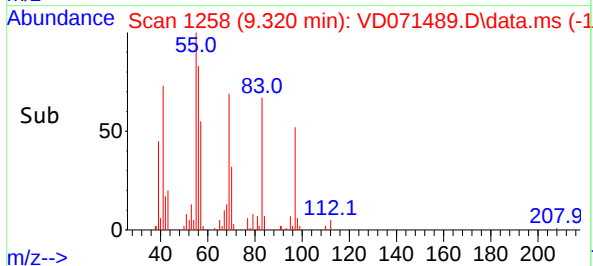
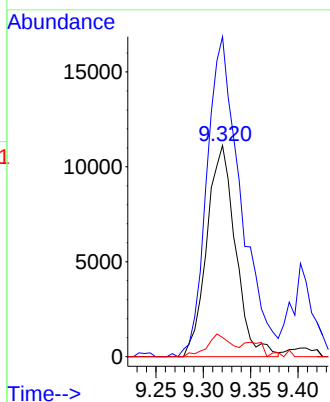
Tgt Ion: 83 Resp: 23422

Ion Ratio Lower Upper

83 100

55 151.5 65.8 98.8#

98 9.1 38.7 58.1#



#43

Isopropyl Acetate

Concen: 1.551 ug/l

RT: 8.450 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VD071489.D

Acq: 27 Dec 2021 17:06

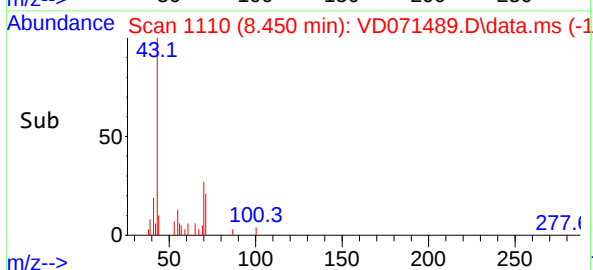
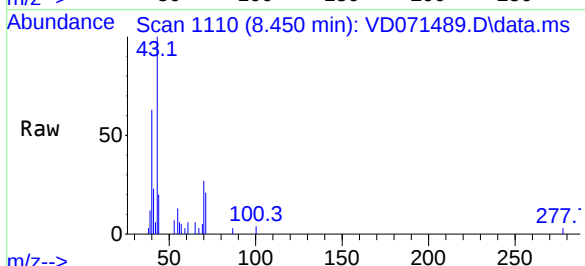
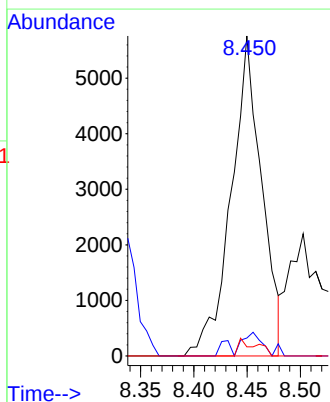
Tgt Ion: 43 Resp: 11487

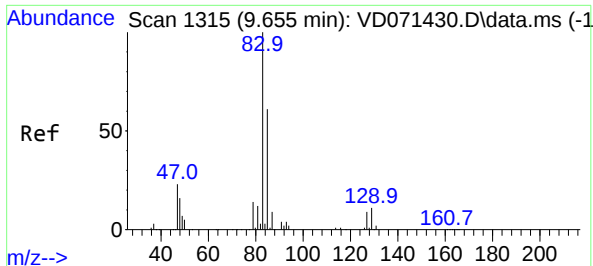
Ion Ratio Lower Upper

43 100

61 4.6 28.2 42.4#

87 3.2 10.7 16.1#

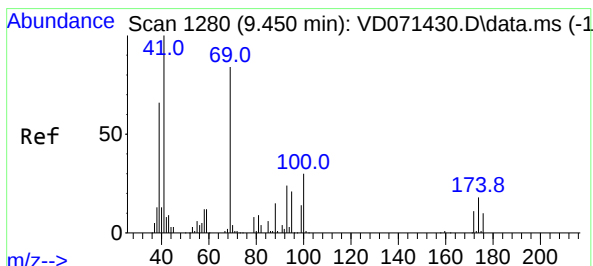
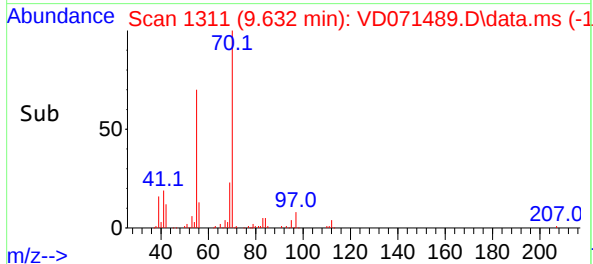
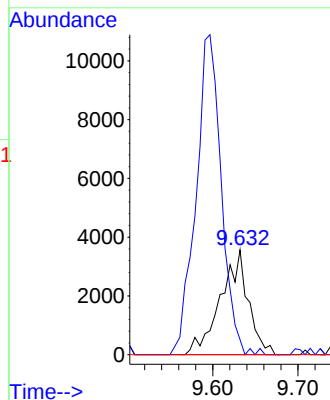
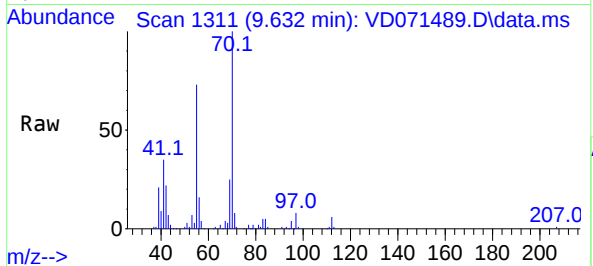




#47
Bromodichloromethane
Concen: 1.021 ug/l
RT: 9.632 min Scan# 11
Delta R.T. -0.023 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

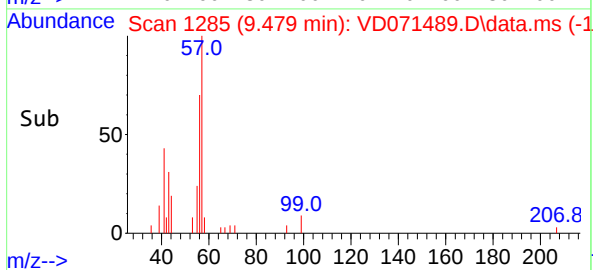
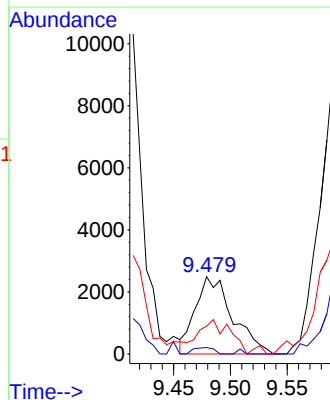
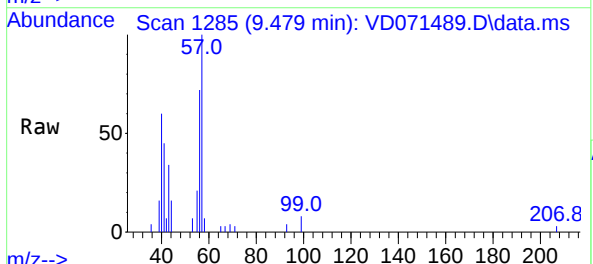
Instrument :
MSVOA_D
ClientSampleId :

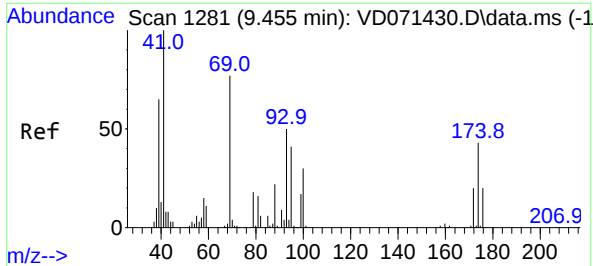
Tgt Ion: 83 Resp: 8077
Ion Ratio Lower Upper
83 100
85 14.4 50.0 75.0#
127 0.0 7.3 10.9#



#48
Methyl methacrylate
Concen: 1.550 ug/l
RT: 9.479 min Scan# 1285
Delta R.T. 0.030 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

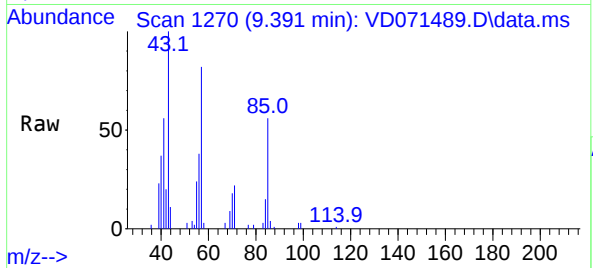
Tgt Ion: 41 Resp: 5682
Ion Ratio Lower Upper
41 100
69 0.0 69.8 104.6#
39 30.4 35.6 53.4#



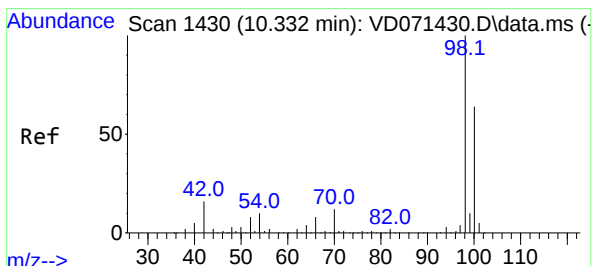
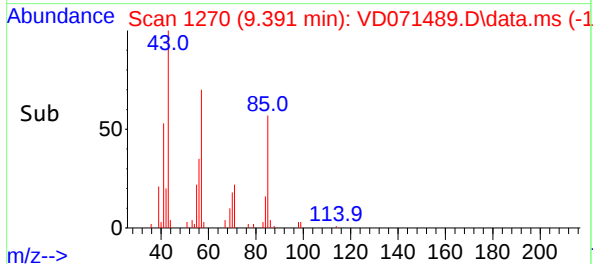
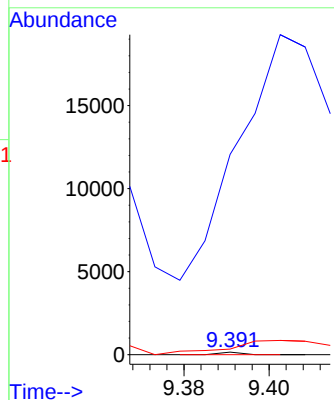


#49
1,4-Dioxane
Concen: 1.562 ug/l
RT: 9.391 min Scan# 11
Delta R.T. -0.064 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Instrument :
MSVOA_D
ClientSampleId :

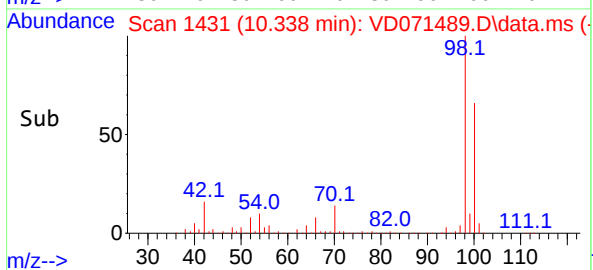
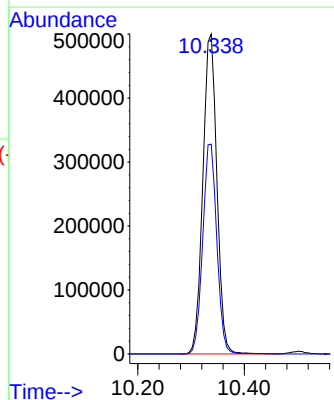
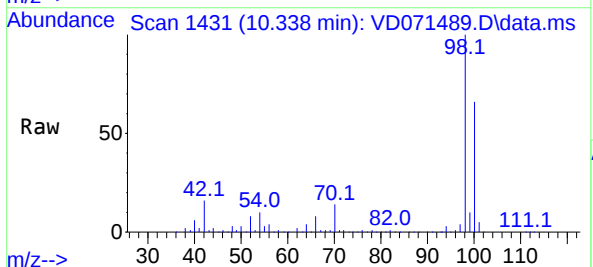


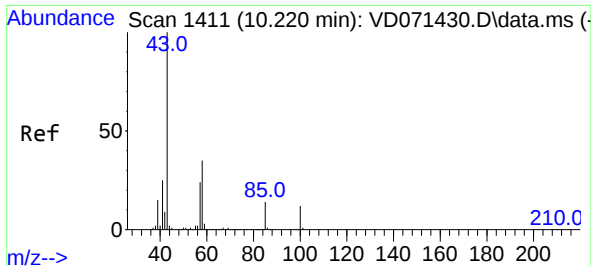
Tgt Ion: 88 Resp: 55
Ion Ratio Lower Upper
88 100
43 66945.5 28.9 43.3#
58 2709.1 56.3 84.5#



#50
Toluene-d8
Concen: 47.800 ug/l
RT: 10.338 min Scan# 1431
Delta R.T. 0.006 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion: 98 Resp: 914102
Ion Ratio Lower Upper
98 100
100 65.8 51.8 77.6

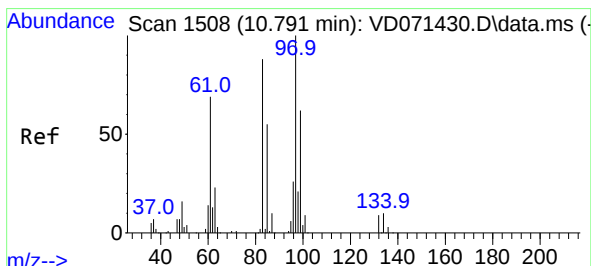
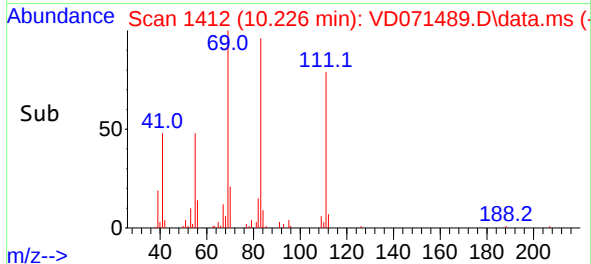
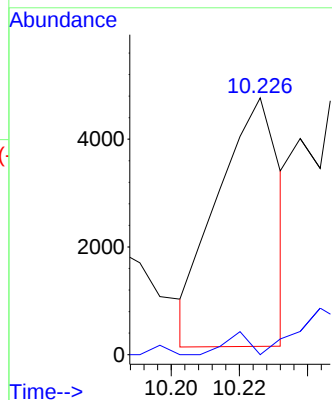
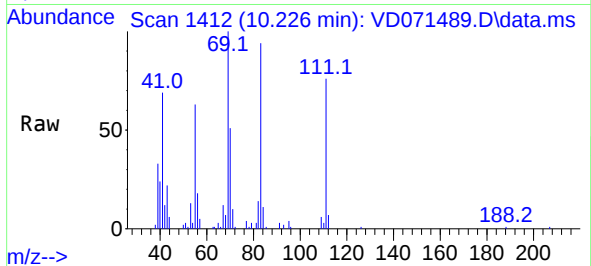




#51
4-Methyl-2-Pentanone
Concen: 1.507 ug/l
RT: 10.226 min Scan# 1411
Delta R.T. 0.006 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

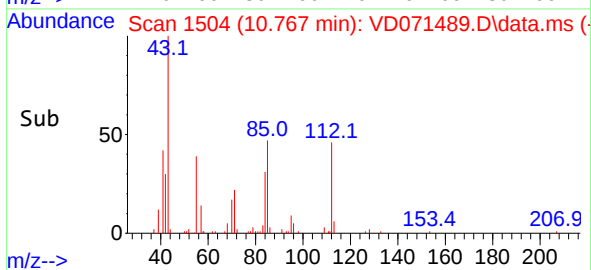
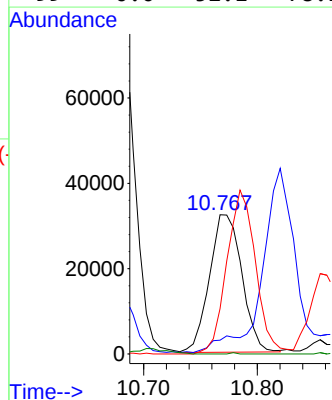
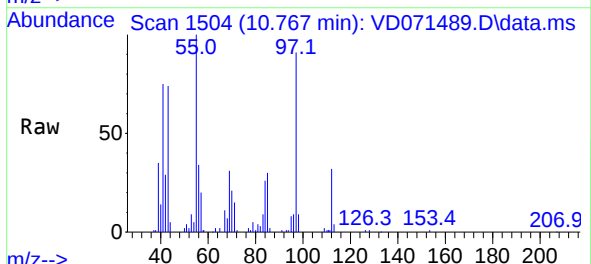
Instrument :
MSVOA_D
ClientSampleId :

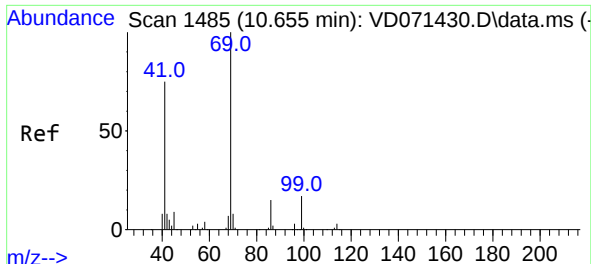
Tgt Ion: 43 Resp: 5873
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



#55
1,1,2-Trichloroethane
Concen: 16.198 ug/l
RT: 10.767 min Scan# 1504
Delta R.T. -0.024 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion: 97 Resp: 64060
Ion Ratio Lower Upper
97 100
83 9.0 65.2 97.8#
85 33.1 43.4 65.0#
99 0.0 52.1 78.1#





#56

Ethyl methacrylate

Concen: 8.993 ug/l

RT: 10.673 min Scan# 1488

Delta R.T. 0.018 min

Lab File: VD071489.D

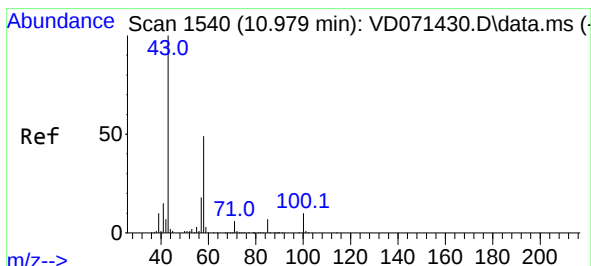
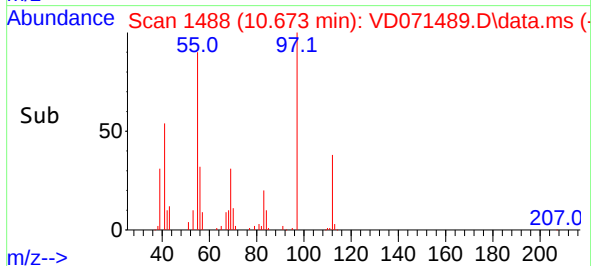
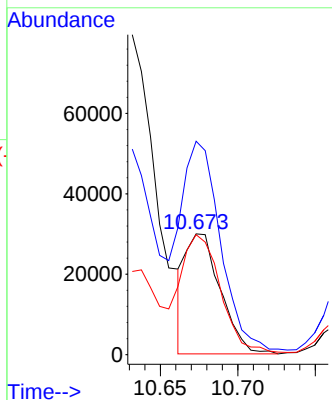
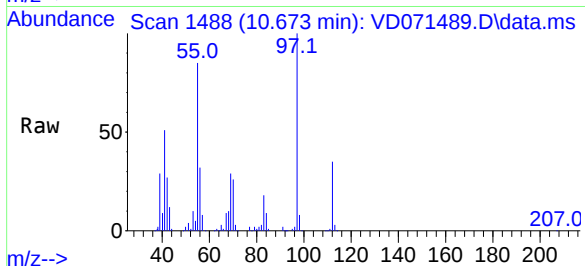
Acq: 27 Dec 2021 17:06

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	69	Resp:	46806
Ion	Ratio	Lower	Upper
69	100		
41	195.6	50.2	75.2#
39	109.7	19.8	29.8#



#59

2-Hexanone

Concen: 255.881 ug/l

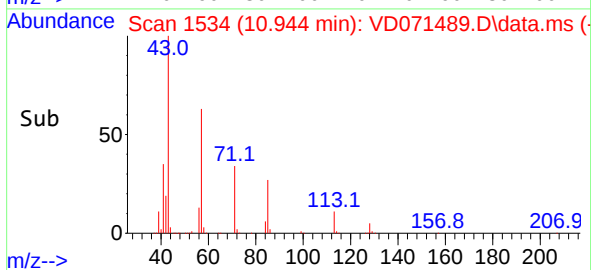
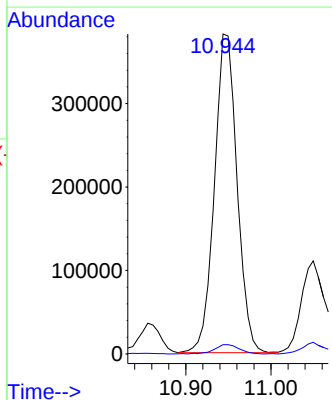
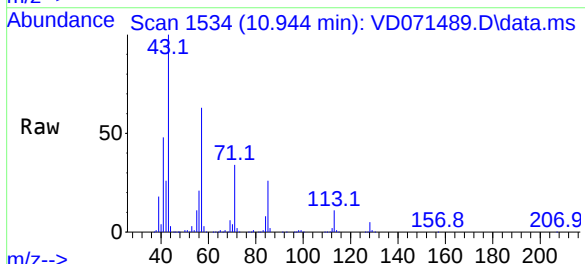
RT: 10.944 min Scan# 1534

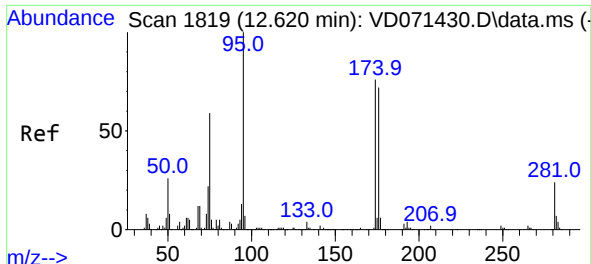
Delta R.T. -0.035 min

Lab File: VD071489.D

Acq: 27 Dec 2021 17:06

Tgt Ion:	43	Resp:	704850
Ion	Ratio	Lower	Upper
43	100		
58	3.2	28.7	86.1#

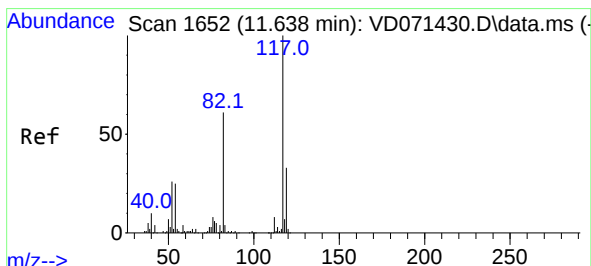
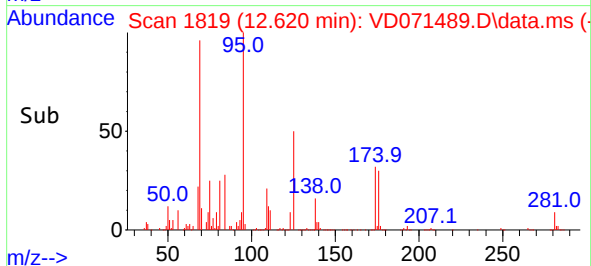
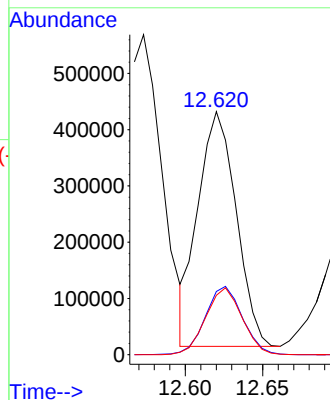
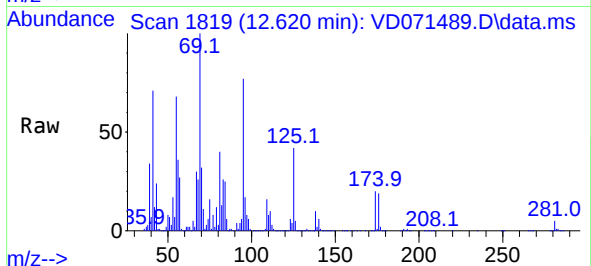




#62
4-Bromofluorobenzene
Concen: 105.568 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

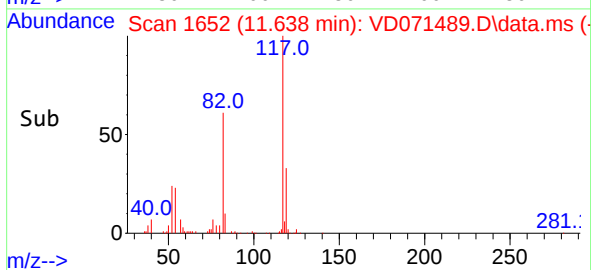
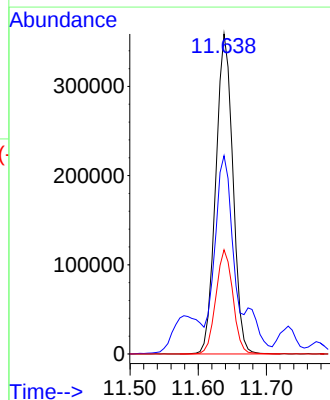
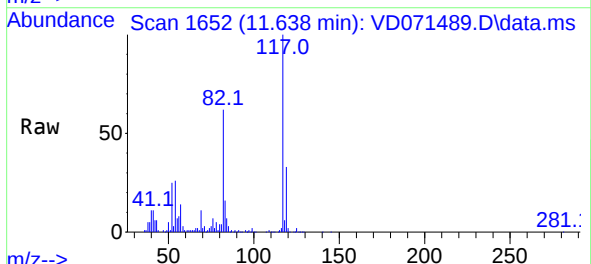
Instrument :
MSVOA_D
ClientSampleId :

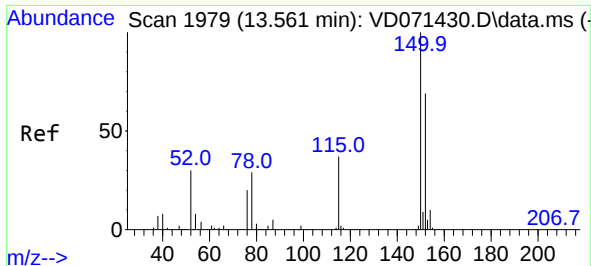
Tgt Ion: 95 Resp: 717393
Ion Ratio Lower Upper
95 100
174 28.3 0.0 159.4
176 27.1 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. -0.000 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion: 117 Resp: 626551
Ion Ratio Lower Upper
117 100
82 55.5 44.7 67.1
119 32.5 26.2 39.4

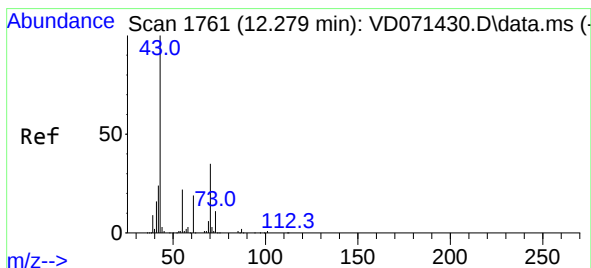
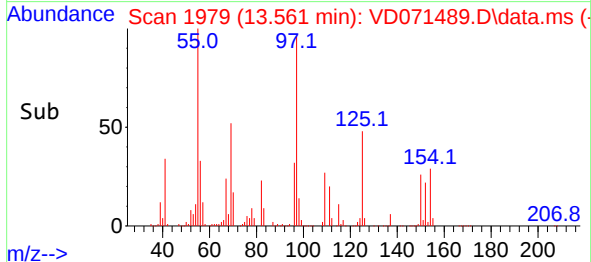
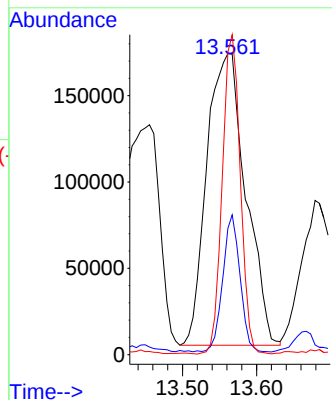
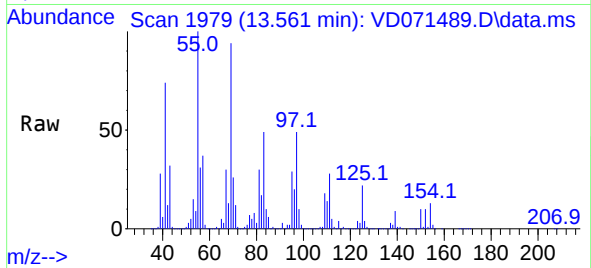




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

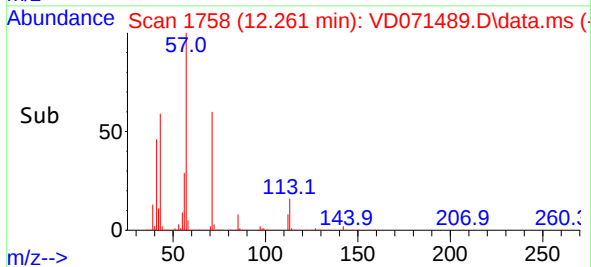
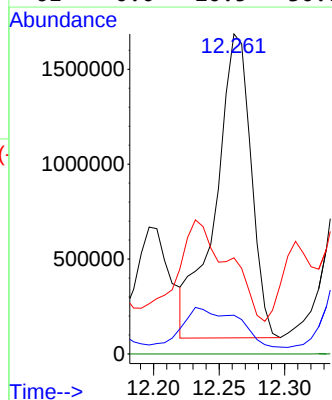
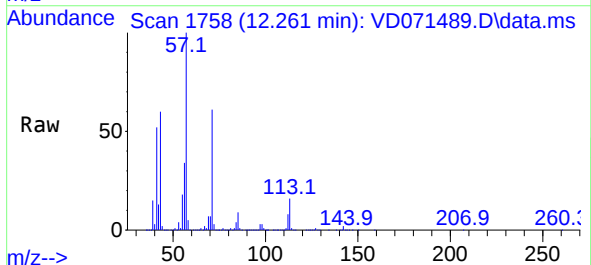
Instrument :
MSVOA_D
ClientSampleId :

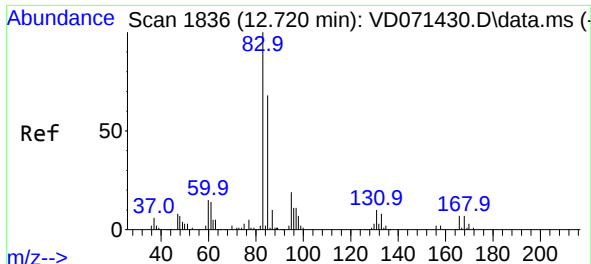
Tgt Ion:152 Resp: 617918
Ion Ratio Lower Upper
152 100
115 20.8 29.8 89.3#
150 50.5 0.0 349.2



#74
N-ethyl acetate
Concen: 235.151 ug/l
RT: 12.261 min Scan# 1758
Delta R.T. -0.018 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion: 43 Resp: 3005506
Ion Ratio Lower Upper
43 100
70 0.0 36.6 55.0#
55 0.0 22.5 33.7#
61 0.0 20.5 30.7#

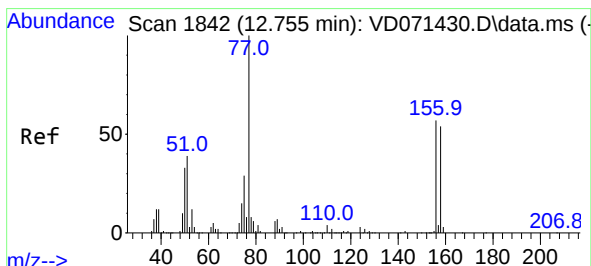
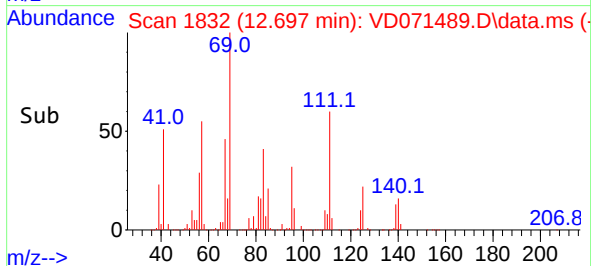
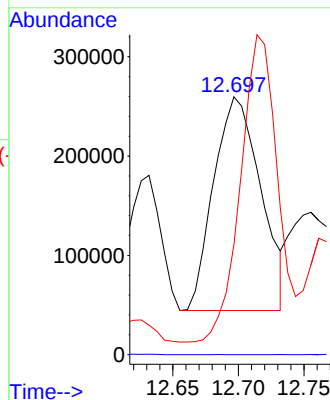
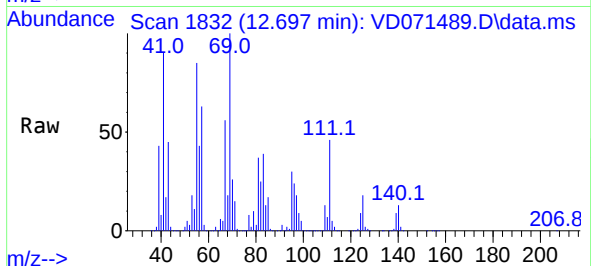




#75
1,1,2,2-Tetrachloroethane
Concen: 62.381 ug/l
RT: 12.697 min Scan# 1832
Delta R.T. -0.023 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

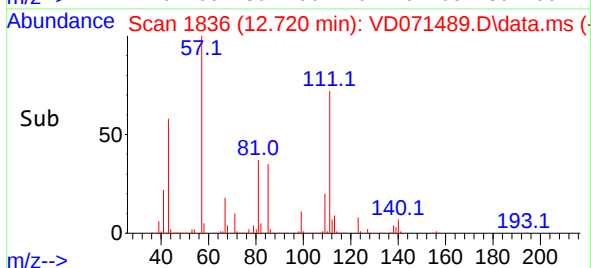
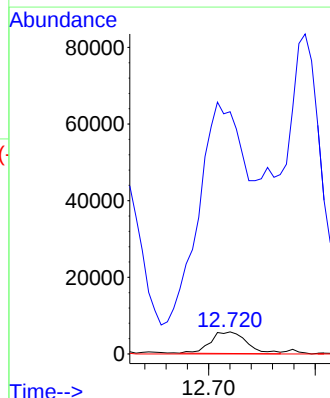
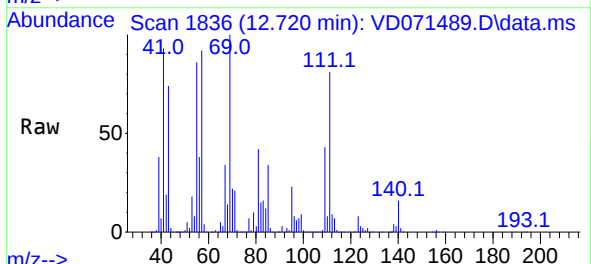
Instrument :
MSVOA_D
ClientSampleId :

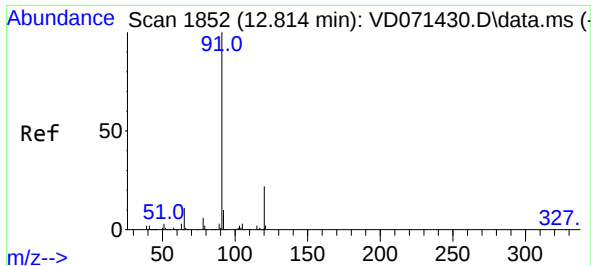
Tgt Ion: 83 Resp: 537276
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 0.0 32.0 96.2#



#77
Bromobenzene
Concen: 1.258 ug/l
RT: 12.720 min Scan# 1836
Delta R.T. -0.029 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion:156 Resp: 13340
Ion Ratio Lower Upper
156 100
77 1359.2 96.6 289.8#
158 0.0 49.1 147.4#

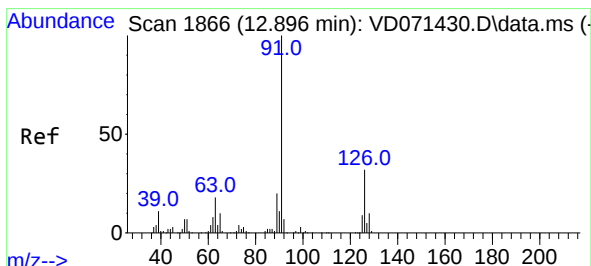
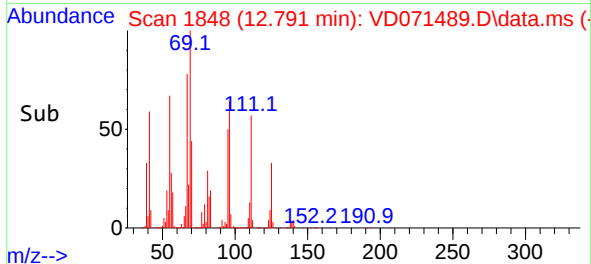
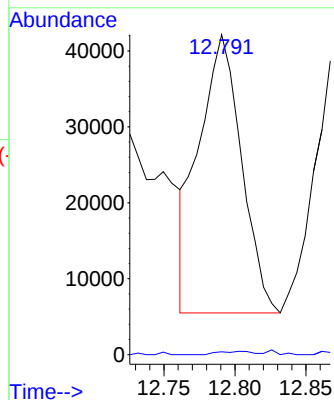
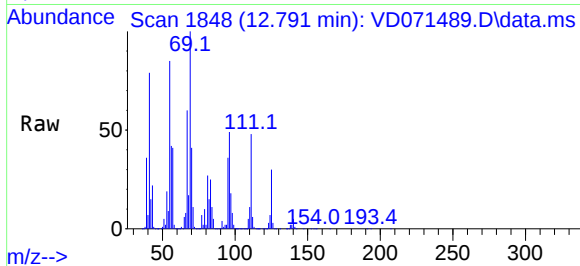




#78
n-propylbenzene
Concen: 1.282 ug/l
RT: 12.791 min Scan# 1848
Delta R.T. -0.017 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

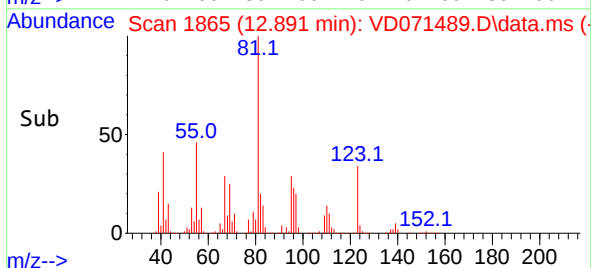
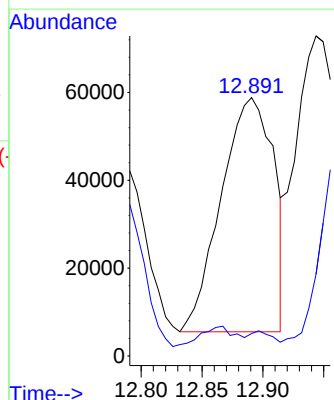
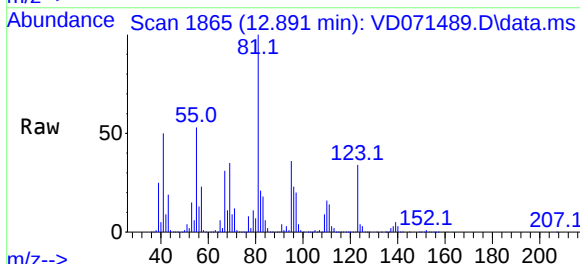
Instrument :
MSVOA_D
ClientSampleId :

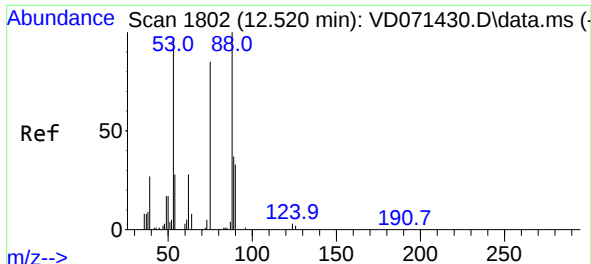
Tgt Ion: 91 Resp: 76528
Ion Ratio Lower Upper
91 100
120 0.9 10.9 32.9#



#79
2-Chlorotoluene
Concen: 4.801 ug/l
RT: 12.891 min Scan# 1865
Delta R.T. -0.005 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion: 91 Resp: 160223
Ion Ratio Lower Upper
91 100
126 0.0 16.6 49.7#

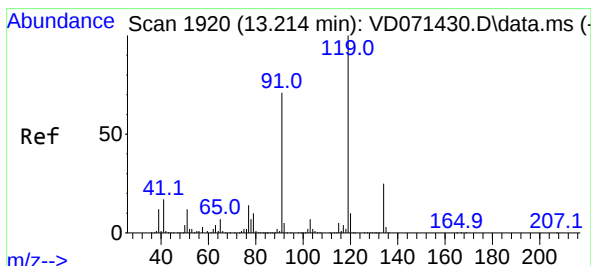
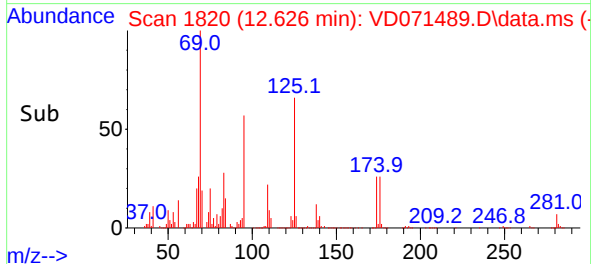
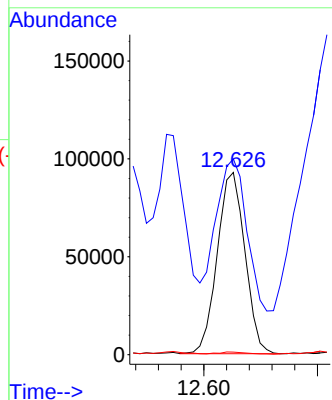
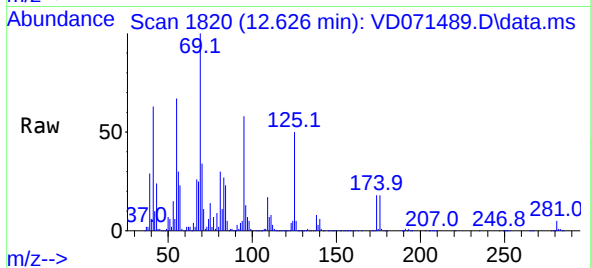




#81
trans-1,4-Dichloro-2-butene
Concen: 60.235 ug/l
RT: 12.626 min Scan# 1802
Delta R.T. 0.106 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

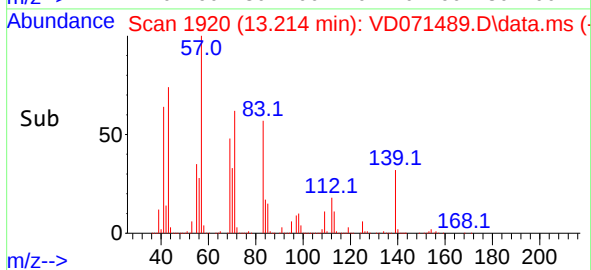
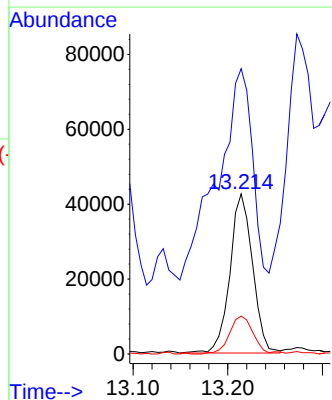
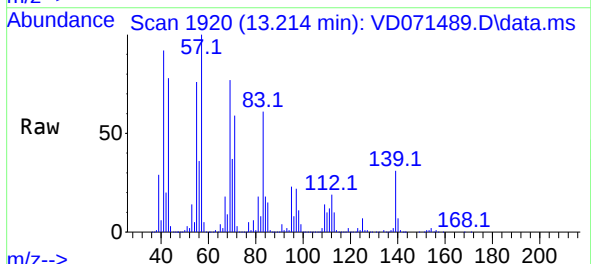
Instrument :
MSVOA_D
ClientSampleId :

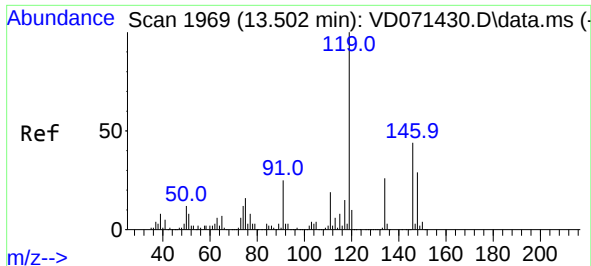
Tgt Ion: 75 Resp: 156517
Ion Ratio Lower Upper
75 100
53 92.1 62.6 94.0
89 1.3 34.5 51.7#



#83
tert-Butylbenzene
Concen: 2.099 ug/l
RT: 13.214 min Scan# 1920
Delta R.T. 0.000 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

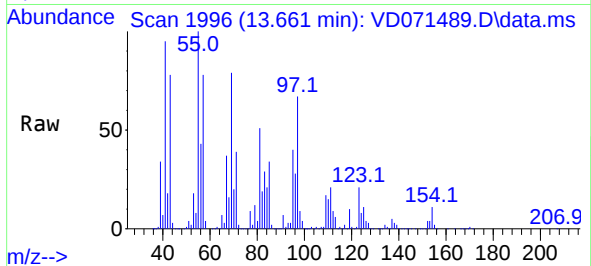
Tgt Ion: 119 Resp: 70477
Ion Ratio Lower Upper
119 100
91 203.8 32.5 97.5#
134 25.2 13.2 39.6



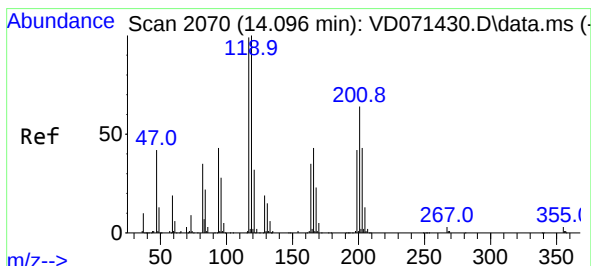
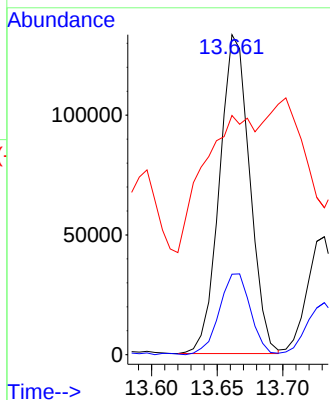
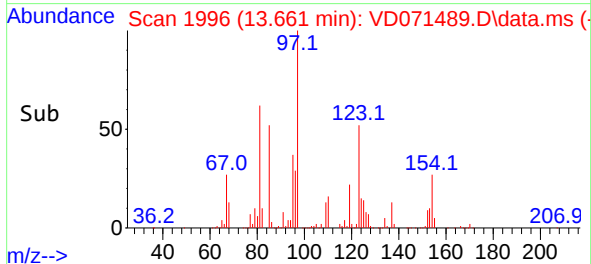


#86
p-Isopropyltoluene
Concen: 5.028 ug/l
RT: 13.661 min Scan# 1969
Delta R.T. 0.159 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Instrument :
MSVOA_D
ClientSampleId :

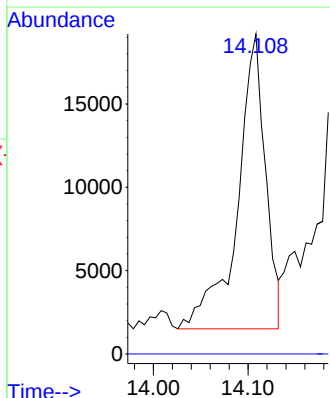
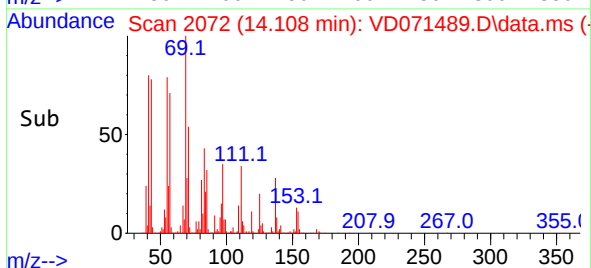
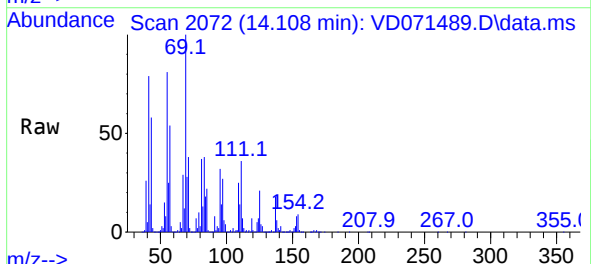


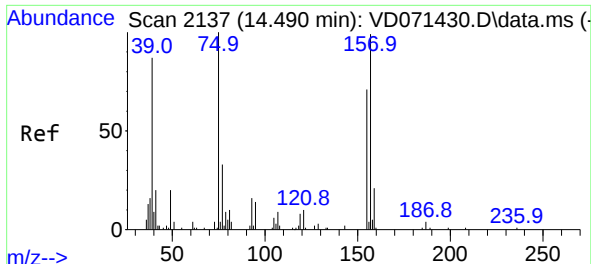
Tgt Ion:119 Resp: 213533
Ion Ratio Lower Upper
119 100
134 26.1 13.0 38.9
91 71.4 11.4 34.2#



#90
Hexachloroethane
Concen: 4.548 ug/l
RT: 14.108 min Scan# 2072
Delta R.T. 0.012 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion:117 Resp: 36592
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#

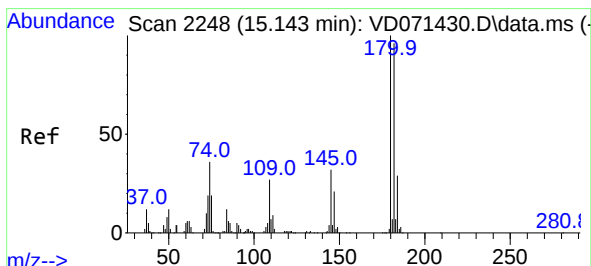
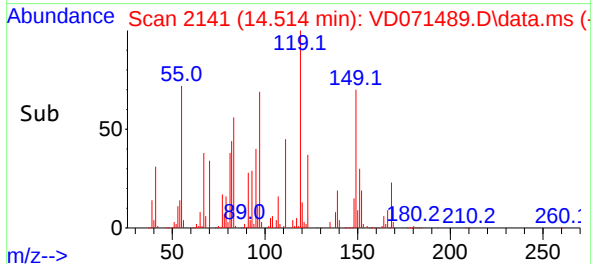
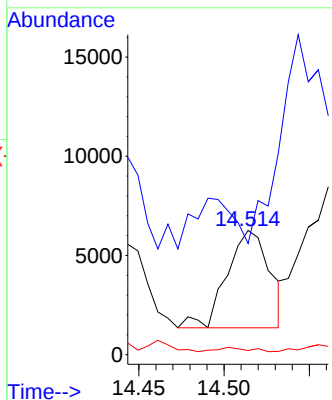
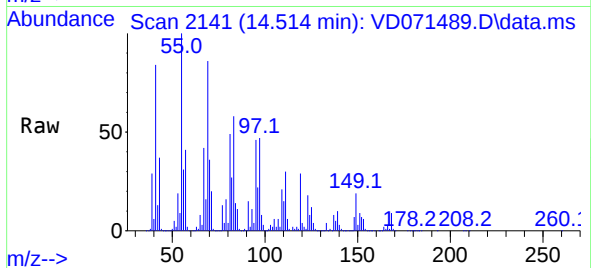




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.773 ug/l
RT: 14.514 min Scan# 2137
Delta R.T. 0.024 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

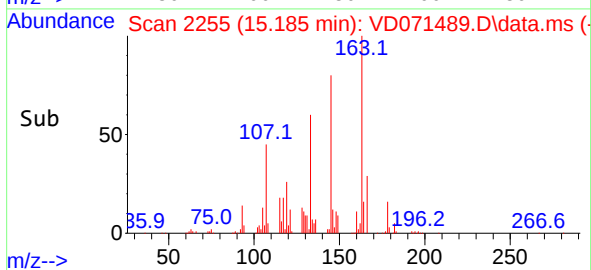
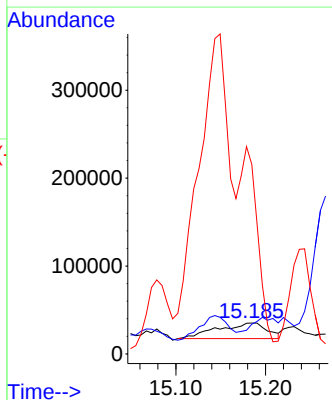
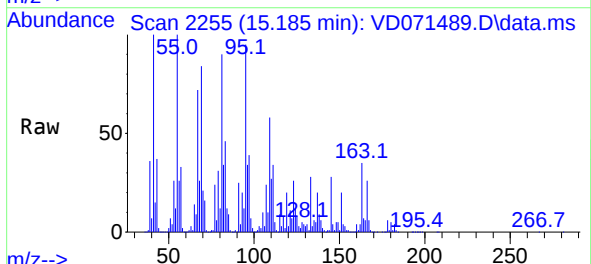
Instrument :
MSVOA_D
ClientSampleId :

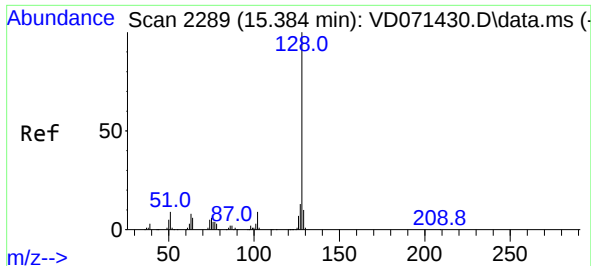
Tgt Ion: 75 Resp: 8622
Ion Ratio Lower Upper
75 100
155 0.0 40.0 120.0#
157 0.0 49.8 149.3#



#93
1,2,4-Trichlorobenzene
Concen: 6.227 ug/l
RT: 15.185 min Scan# 2255
Delta R.T. 0.042 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion:180 Resp: 68757
Ion Ratio Lower Upper
180 100
182 107.3 48.2 144.6
145 0.0 15.4 46.2#

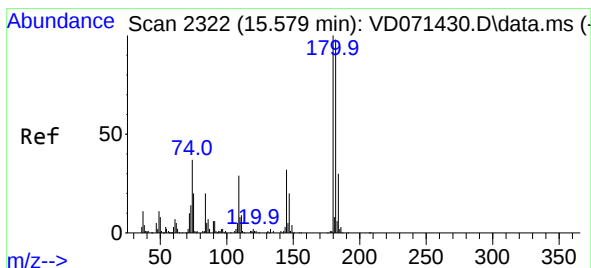
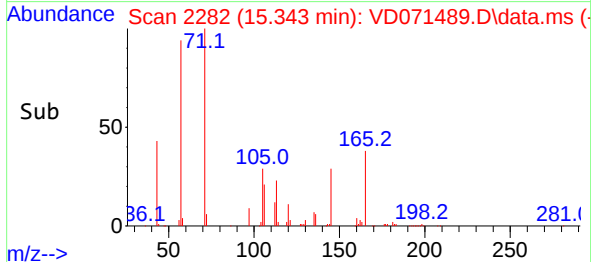
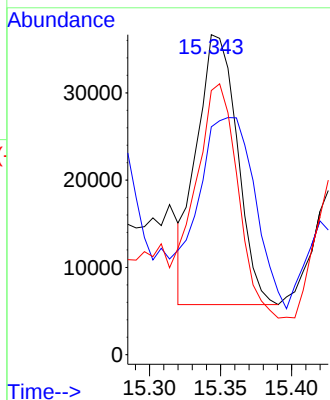
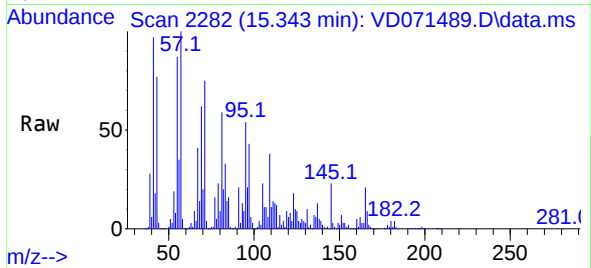




#95
Naphthalene
Concen: 2.944 ug/l
RT: 15.343 min Scan# 2186
Delta R.T. -0.036 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Instrument :
MSVOA_D
ClientSampleId :

Tgt Ion:128 Resp: 61866
Ion Ratio Lower Upper
128 100
127 99.7 10.7 16.1#
129 92.0 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 4.483 ug/l
RT: 15.602 min Scan# 2326
Delta R.T. 0.023 min
Lab File: VD071489.D
Acq: 27 Dec 2021 17:06

Tgt Ion:180 Resp: 42809
Ion Ratio Lower Upper
180 100
182 0.0 46.7 140.1#
145 0.0 15.9 47.6#

