

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD052623\
 Data File : VD076267.D
 Acq On : 26 May 2023 19:40
 Operator : KP/SY
 Sample : 02953-01
 Misc : 6.26G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PNNL-RH-524-1

Quant Time: May 26 23:17:23 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D051523S.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 10:08:53 2023
 Response via : Initial Calibration

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

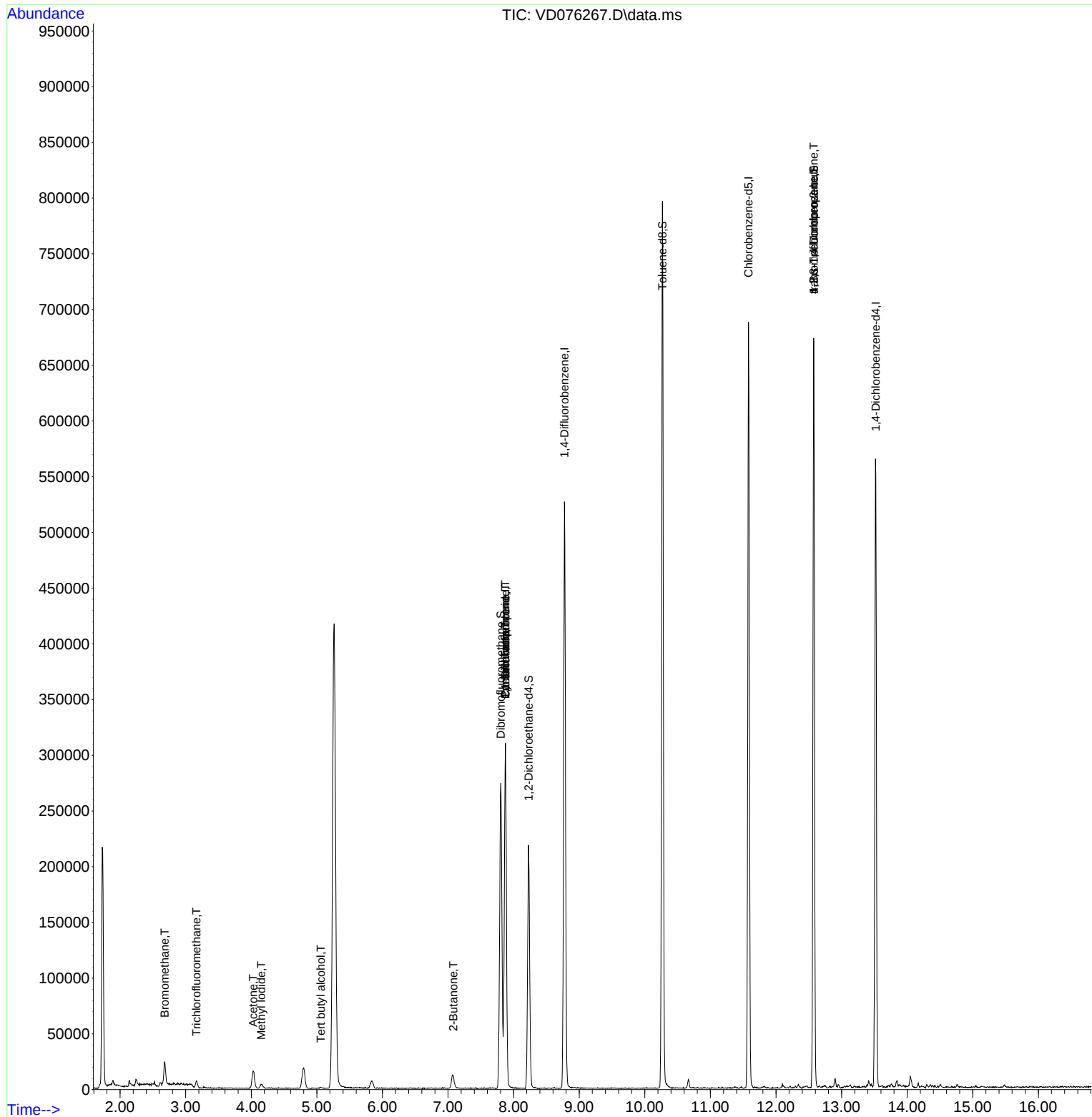
Internal Standards						
1) Pentafluorobenzene	7.875	168	252916	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	495531	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	425459	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.522	152	167272	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	158649	64.904	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 129.800%	
35) Dibromofluoromethane	7.805	113	205075	59.872	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 119.740%	
50) Toluene-d8	10.269	98	572797	42.899	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 85.800%	
62) 4-Bromofluorobenzene	12.575	95	201418	54.304	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 108.600%	
Target Compounds						
						Qvalue
3) Chloromethane	2.140	50	3977	Below Cal		93
5) Bromomethane	2.681	94	14906	4.501	ug/l	97
7) Trichlorofluoromethane	3.164	101	6892	1.653	ug/l	100
10) Methyl Iodide	4.152	142	6773	2.372	ug/l	89
11) Tert butyl alcohol	5.058	59	1507	11.655	ug/l #	100
16) Acetone	4.028	43	3623	7.450	ug/l	89
17) Carbon Disulfide	4.275	76	199	Below Cal	#	73
20) Methylene Chloride	4.799	84	16259	Below Cal	#	75
25) 2-Butanone	7.081	43	744	1.217	ug/l #	50
31) Cyclohexane	7.875	56	5018	1.340	ug/l #	1
36) 1,1-Dichloropropene	7.875	75	18748	4.053	ug/l #	49
38) Carbon Tetrachloride	7.875	117	22763	5.448	ug/l #	19
76) 1,2,3-Trichloropropane	12.575	75	99526	67.993	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.575	75	99526	142.638	ug/l #	5

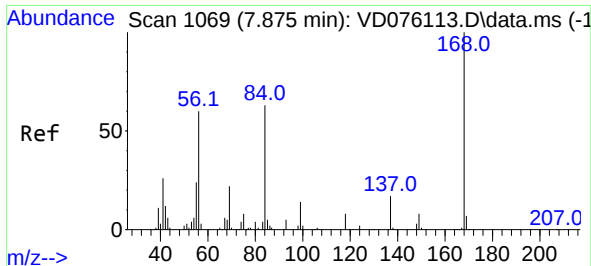
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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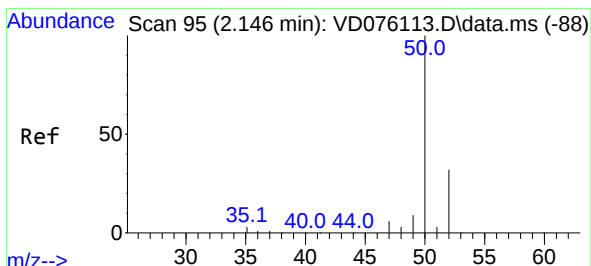
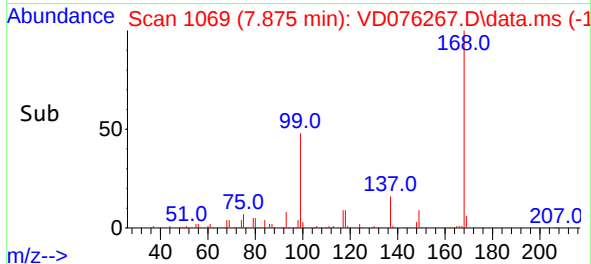
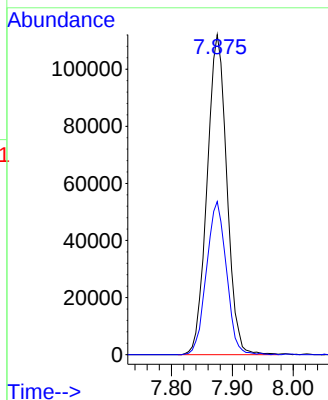
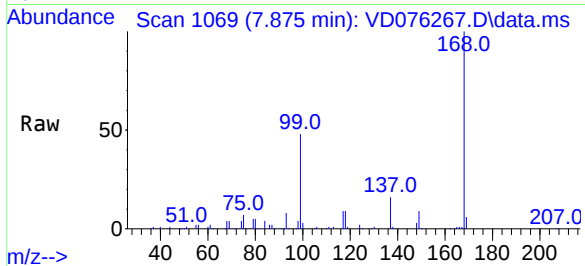




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

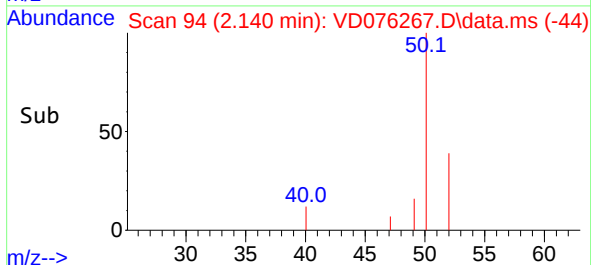
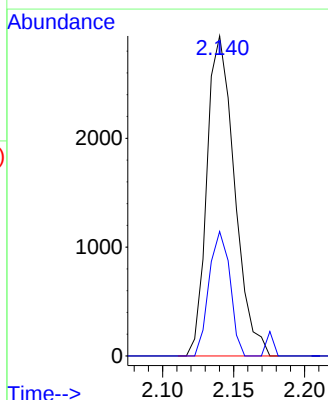
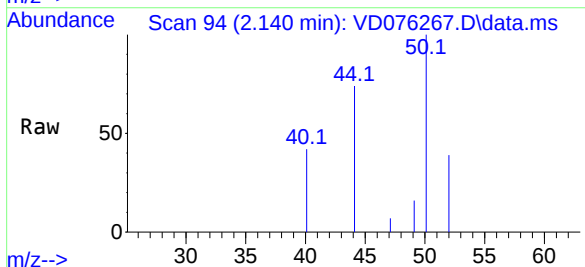
Instrument :
MSVOA_D
ClientSampleId :
PNNL-RH-524-1

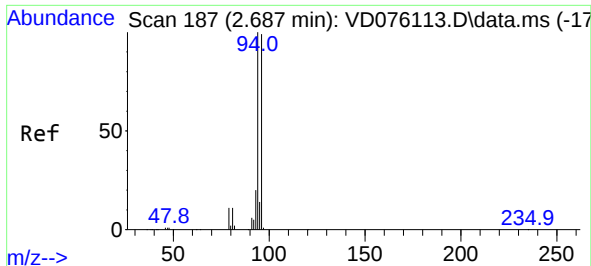
Tgt Ion:168 Resp: 252916
Ion Ratio Lower Upper
168 100
99 47.9 43.8 65.6



#3
Chloromethane
Concen: Below Cal
RT: 2.140 min Scan# 94
Delta R.T. -0.006 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

Tgt Ion: 50 Resp: 3977
Ion Ratio Lower Upper
50 100
52 38.9 27.8 41.8

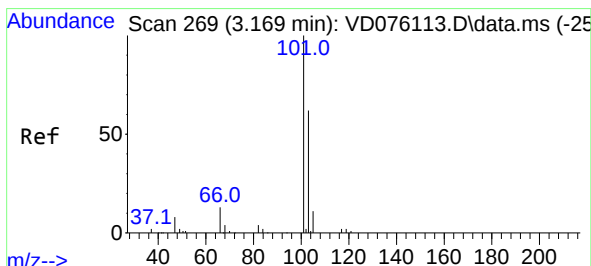
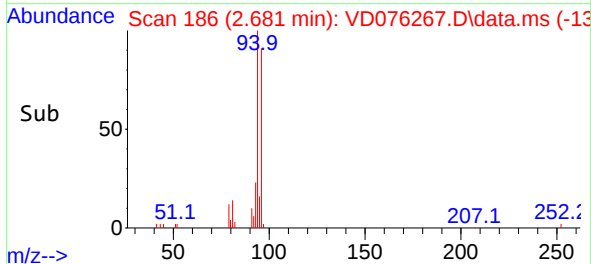
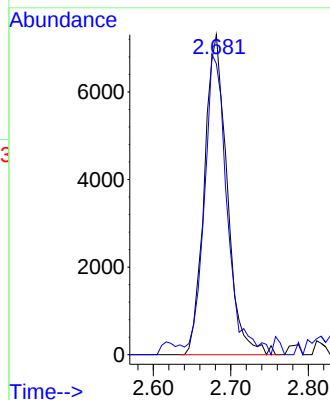
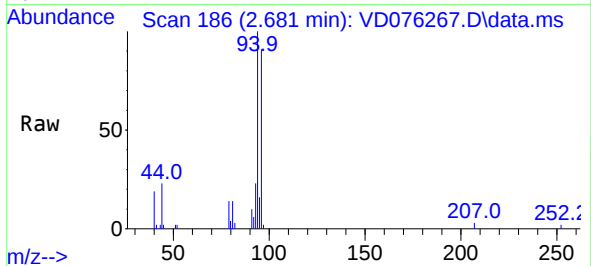




#5
Bromomethane
Concen: 4.501 ug/l
RT: 2.681 min Scan# 11
Delta R.T. -0.006 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

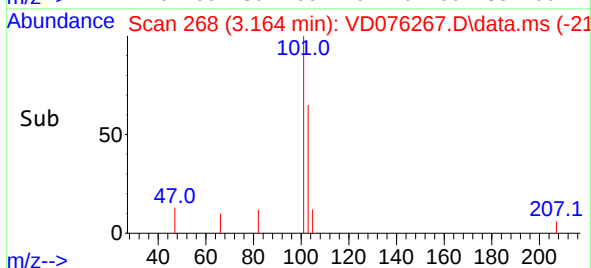
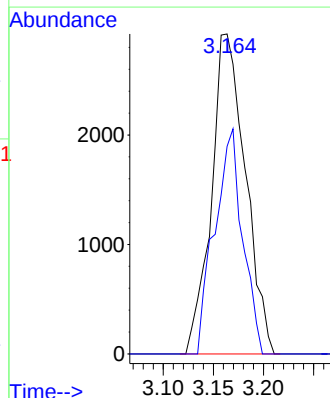
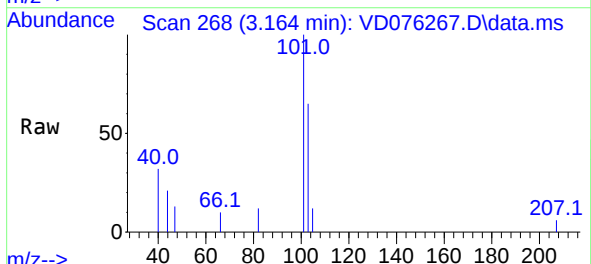
Instrument :
MSVOA_D
ClientSampleId :
PNNL-RH-524-1

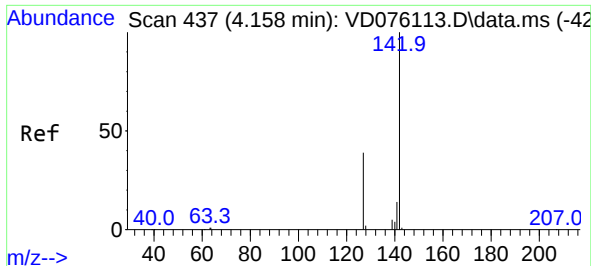
Tgt Ion: 94 Resp: 14906
Ion Ratio Lower Upper
94 100
96 93.9 77.5 116.3



#7
Trichlorofluoromethane
Concen: 1.653 ug/l
RT: 3.164 min Scan# 268
Delta R.T. -0.005 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

Tgt Ion: 101 Resp: 6892
Ion Ratio Lower Upper
101 100
103 64.9 51.9 77.9

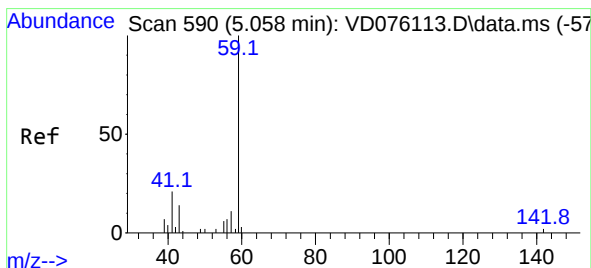
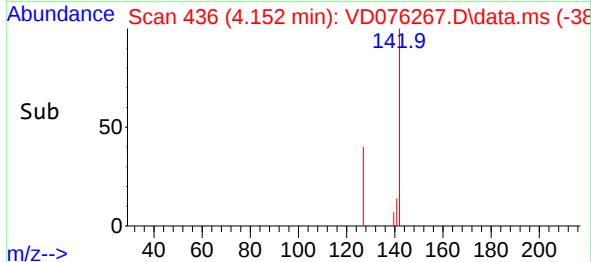
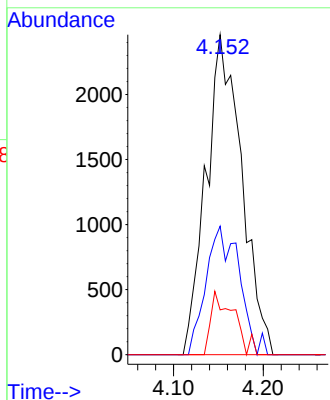
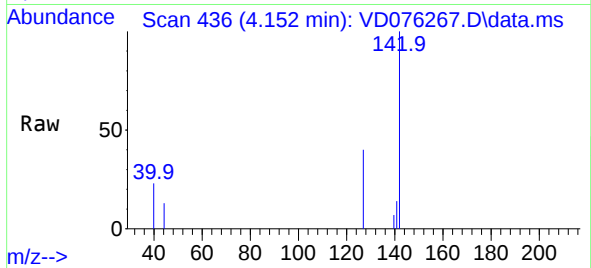




#10
Methyl Iodide
Concen: 2.372 ug/l
RT: 4.152 min Scan# 41
Delta R.T. -0.012 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

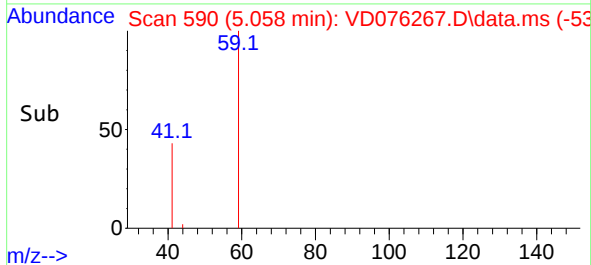
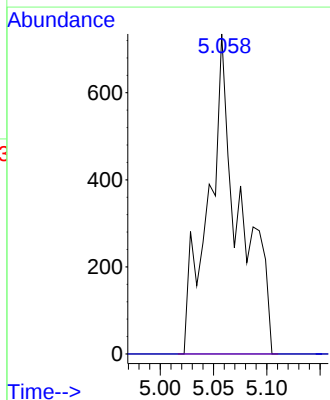
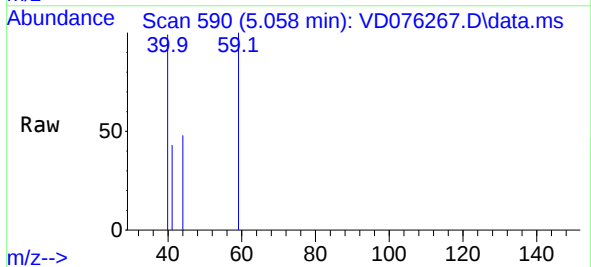
Instrument :
MSVOA_D
ClientSampleId :
PNNL-RH-524-1

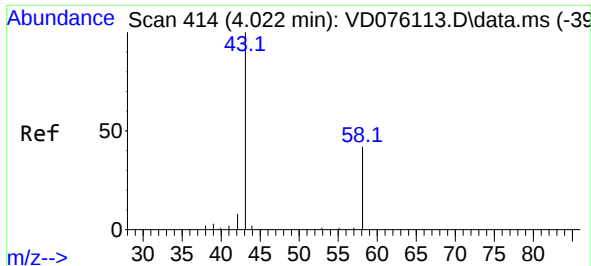
Tgt Ion:142 Resp: 6773
Ion Ratio Lower Upper
142 100
127 37.6 37.1 55.7
141 12.7 11.3 16.9



#11
Tert butyl alcohol
Concen: 11.655 ug/l
RT: 5.058 min Scan# 590
Delta R.T. 0.006 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

Tgt Ion: 59 Resp: 1507
Ion Ratio Lower Upper
59 100
57 0.0 0.0 0.0





#16

Acetone

Concen: 7.450 ug/l

RT: 4.028 min Scan# 414

Delta R.T. 0.006 min

Lab File: VD076267.D

Acq: 26 May 2023 19:40

Instrument :

MSVOA_D

ClientSampleId :

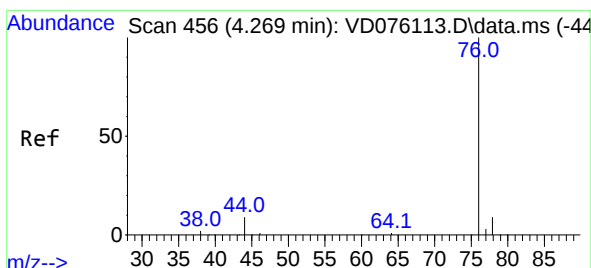
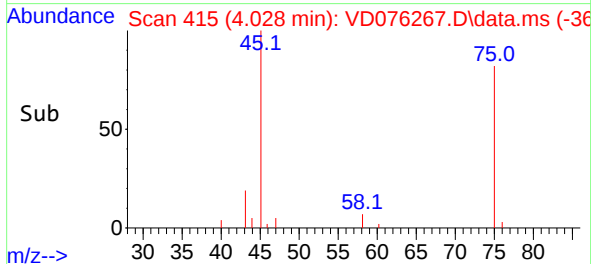
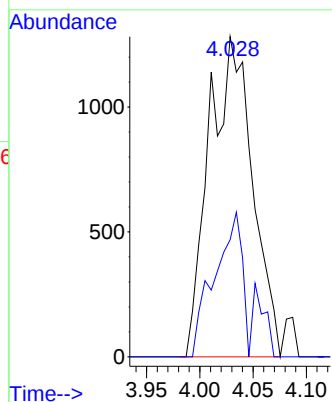
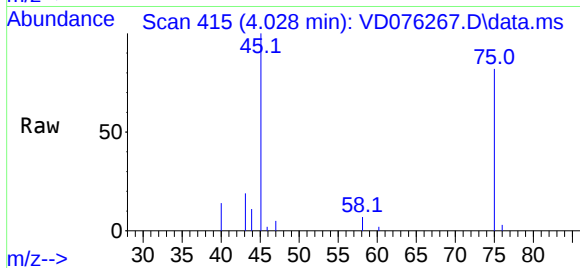
PNNL-RH-524-1

Tgt Ion: 43 Resp: 3623

Ion Ratio Lower Upper

43 100

58 36.6 24.4 36.6



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.275 min Scan# 457

Delta R.T. 0.006 min

Lab File: VD076267.D

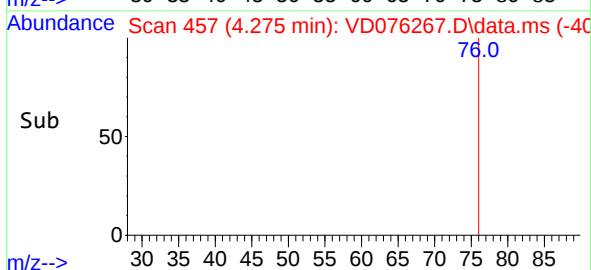
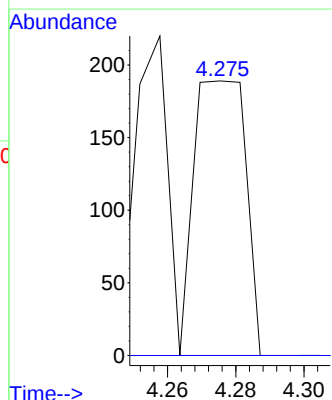
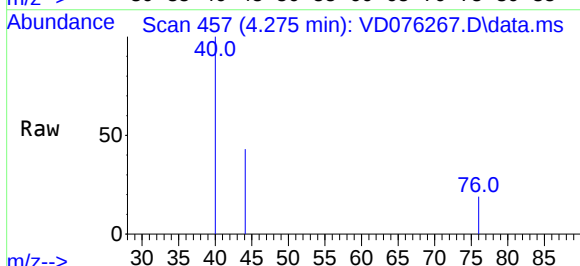
Acq: 26 May 2023 19:40

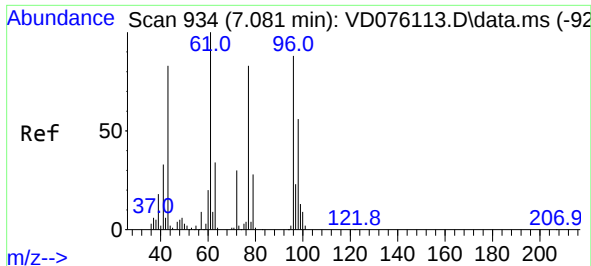
Tgt Ion: 76 Resp: 199

Ion Ratio Lower Upper

76 100

78 0.0 8.0 12.0#

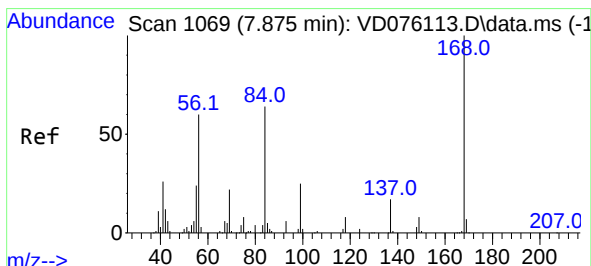
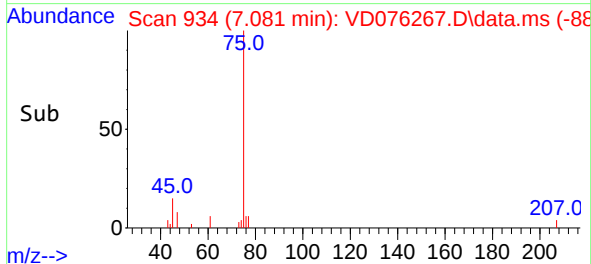
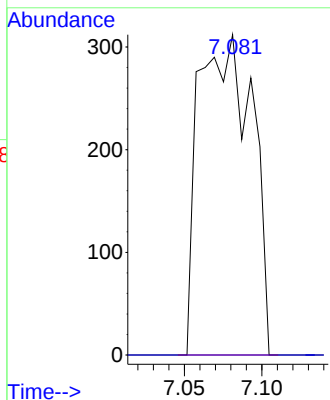
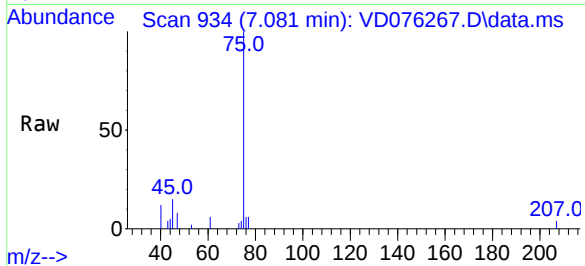




#25
2-Butanone
Concen: 1.217 ug/l
RT: 7.081 min Scan# 91
Delta R.T. 0.000 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

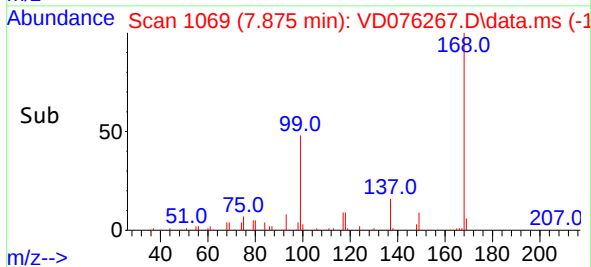
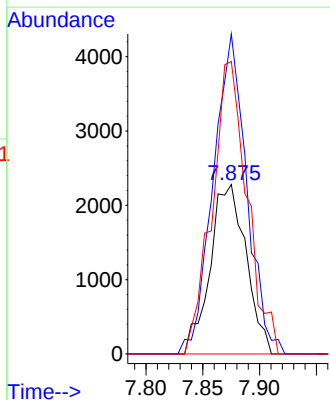
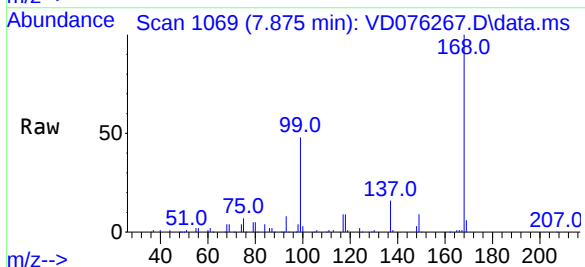
Instrument :
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PNNL-RH-524-1

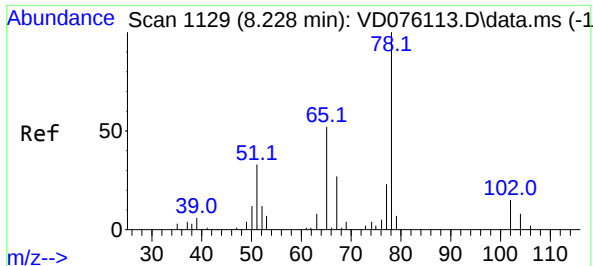
Tgt Ion: 43 Resp: 744
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.8#



#31
Cyclohexane
Concen: 1.340 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

Tgt Ion: 56 Resp: 5018
Ion Ratio Lower Upper
56 100
69 188.8 25.5 38.3#
84 172.6 69.6 104.4#





#33

1,2-Dichloroethane-d4

Concen: 64.904 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.006 min

Lab File: VD076267.D

Acq: 26 May 2023 19:40

Instrument :

MSVOA_D

ClientSampleId :

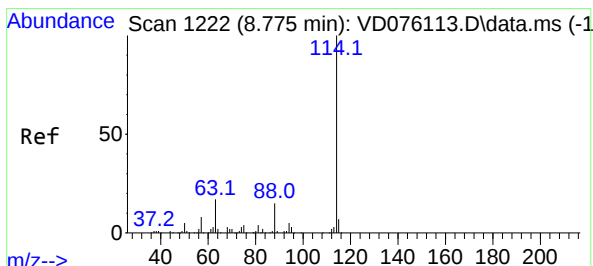
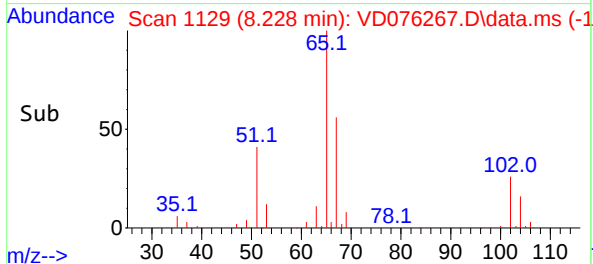
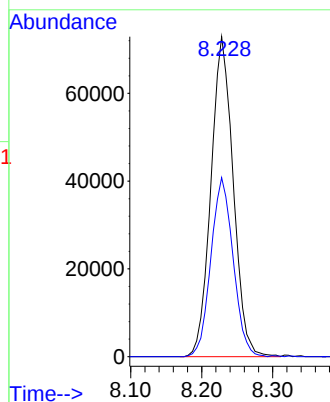
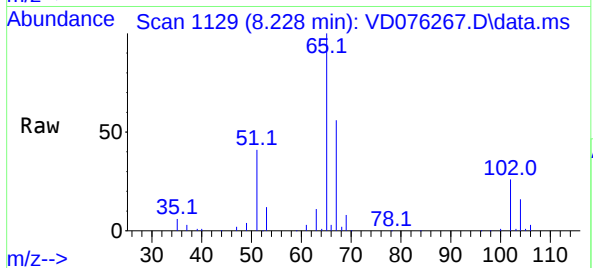
PNNL-RH-524-1

Tgt Ion: 65 Resp: 158649

Ion Ratio Lower Upper

65 100

67 55.9 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 1222

Delta R.T. 0.000 min

Lab File: VD076267.D

Acq: 26 May 2023 19:40

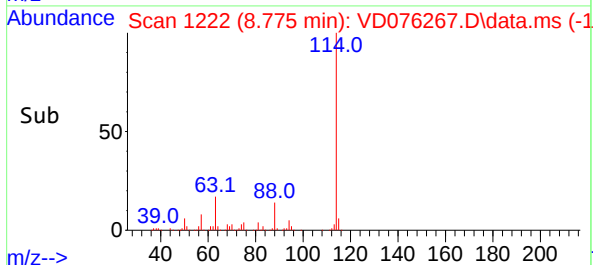
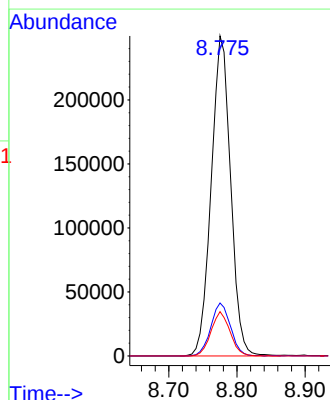
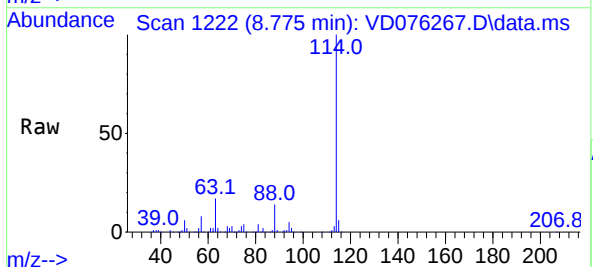
Tgt Ion: 114 Resp: 495531

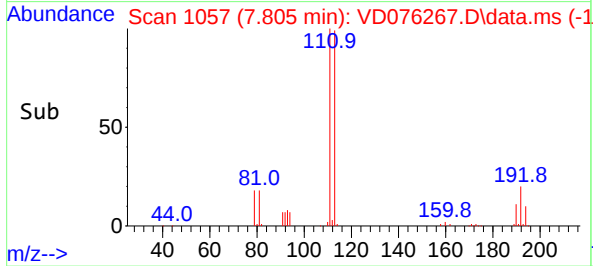
Ion Ratio Lower Upper

114 100

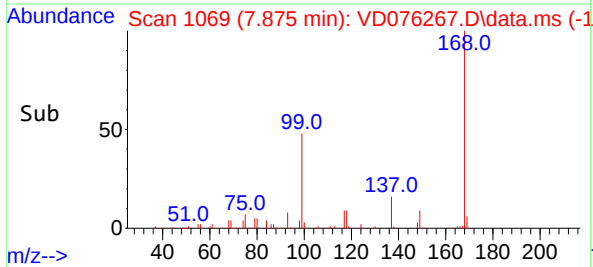
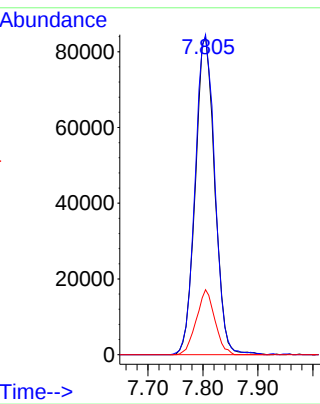
63 16.6 0.0 41.6

88 13.9 0.0 30.6

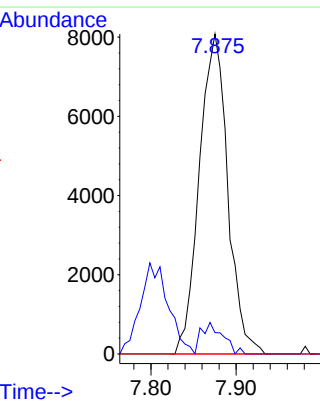


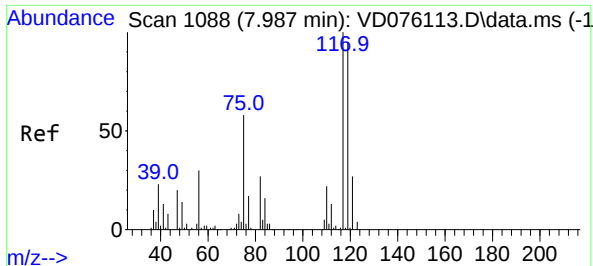


Tgt	Ion:113	Resp:	205075
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.0
192	19.6	15.2	22.8



Tgt	Ion: 75	Resp:	18748
Ion	Ratio	Lower	Upper
75	100		
110	7.4	17.1	51.2#
77	0.0	24.6	36.8#

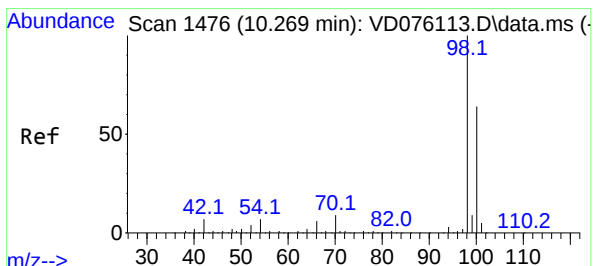
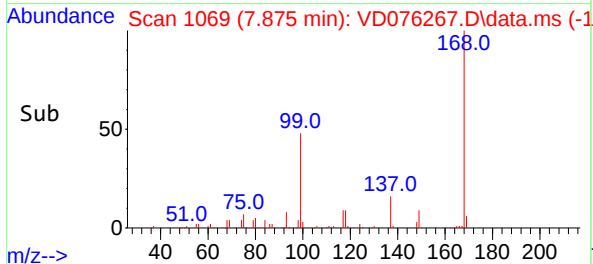
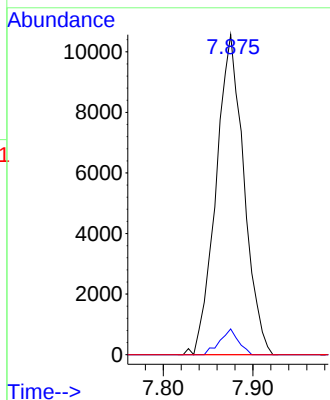
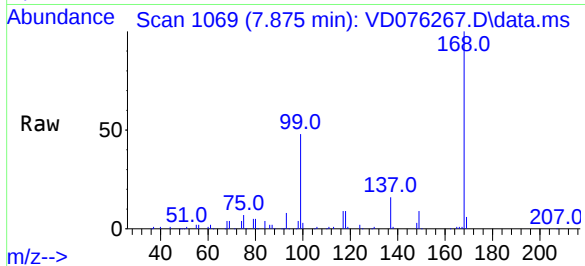




#38
Carbon Tetrachloride
Concen: 5.448 ug/l
RT: 7.875 min Scan# 1088
Delta R.T. -0.118 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

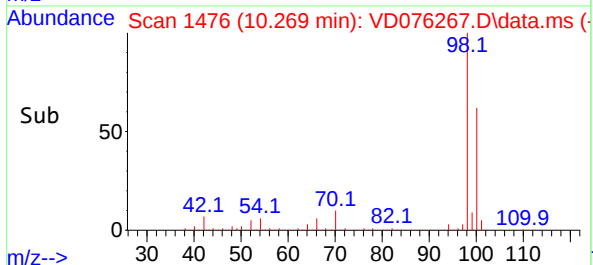
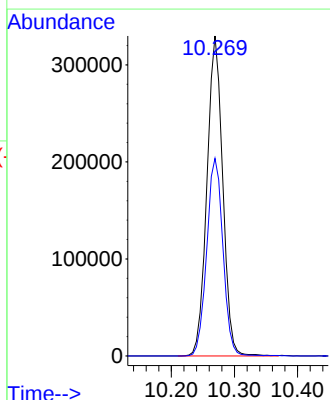
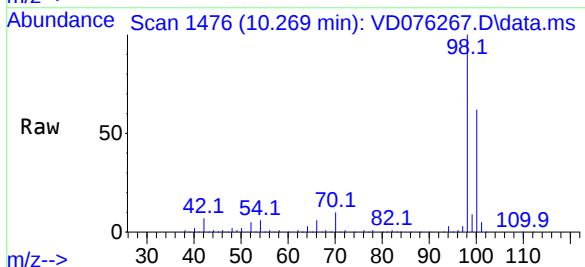
Instrument :
MSVOA_D
ClientSampleId :
PNNL-RH-524-1

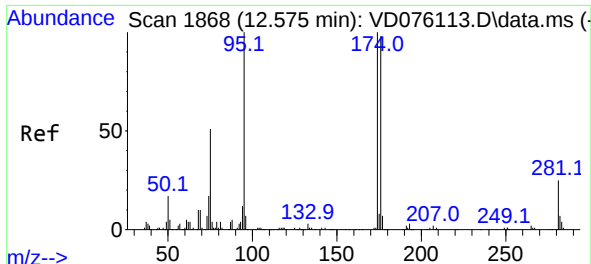
Tgt Ion:117 Resp: 22763
Ion Ratio Lower Upper
117 100
119 8.1 74.7 112.1#
121 0.0 25.9 38.9#



#50
Toluene-d8
Concen: 42.899 ug/l
RT: 10.269 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

Tgt Ion: 98 Resp: 572797
Ion Ratio Lower Upper
98 100
100 63.5 52.1 78.1

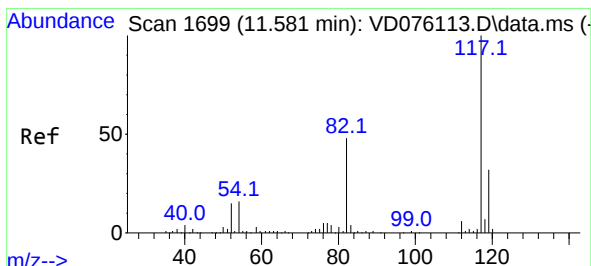
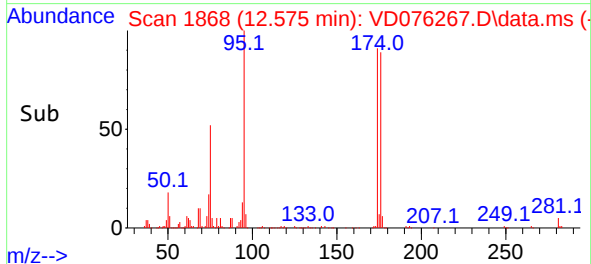
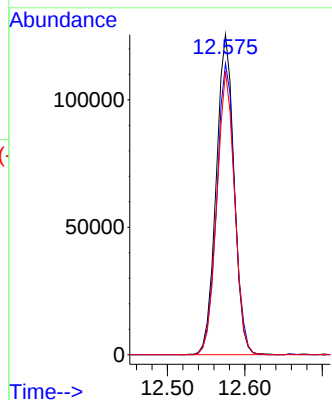
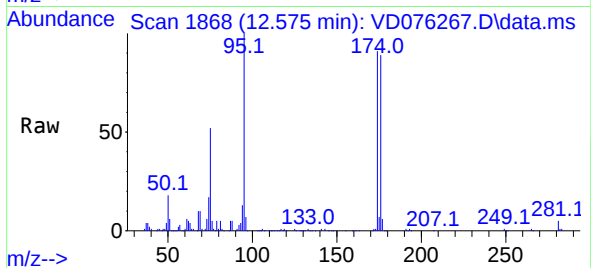




#62
4-Bromofluorobenzene
Concen: 54.304 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

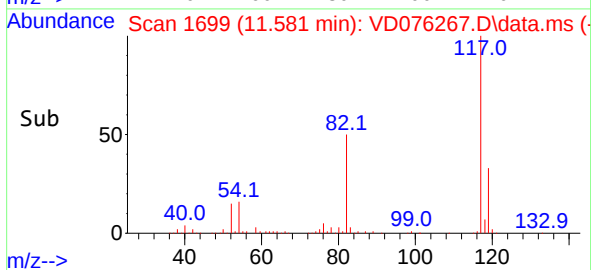
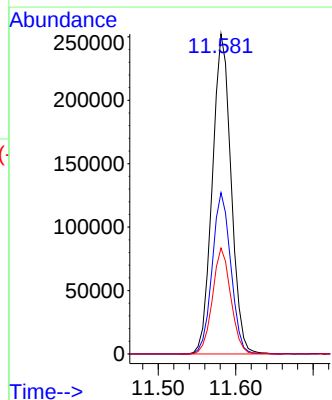
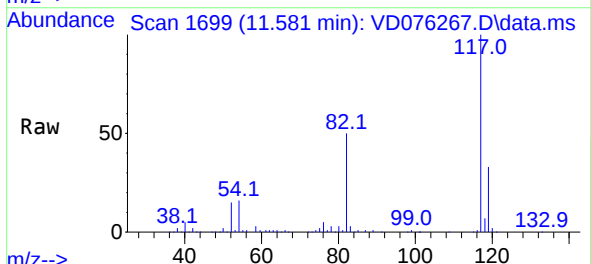
Instrument :
MSVOA_D
ClientSampleId :
PNNL-RH-524-1

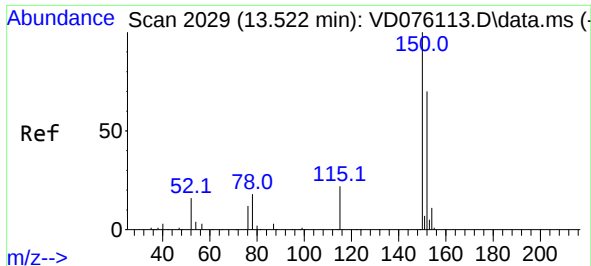
Tgt Ion: 95 Resp: 201418
Ion Ratio Lower Upper
95 100
174 91.8 0.0 164.0
176 87.8 0.0 156.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 1699
Delta R.T. -0.000 min
Lab File: VD076267.D
Acq: 26 May 2023 19:40

Tgt Ion: 117 Resp: 425459
Ion Ratio Lower Upper
117 100
82 50.4 44.0 66.0
119 33.1 25.1 37.7

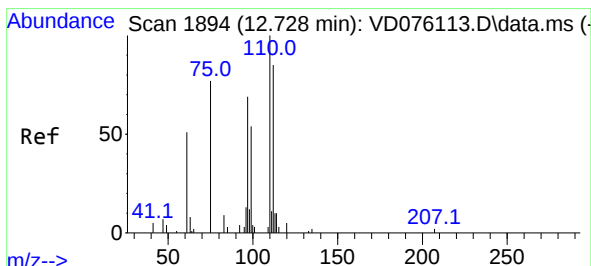
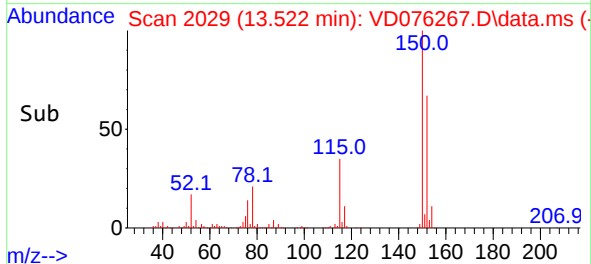
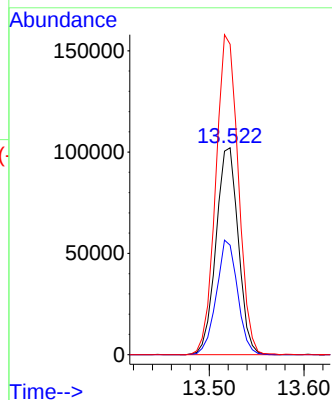
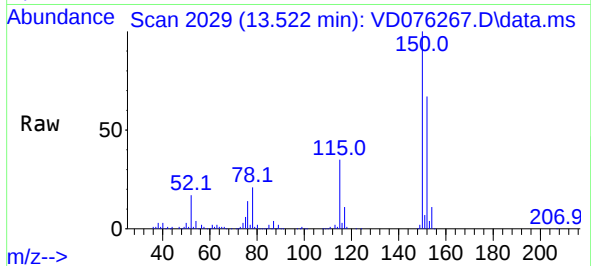




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.522 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VD076267.D
 Acq: 26 May 2023 19:40

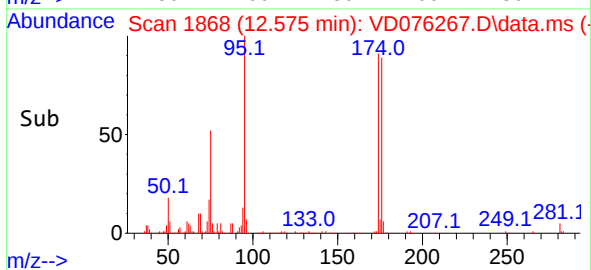
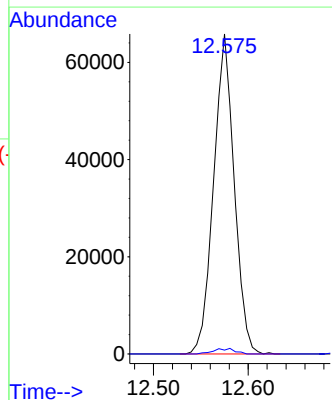
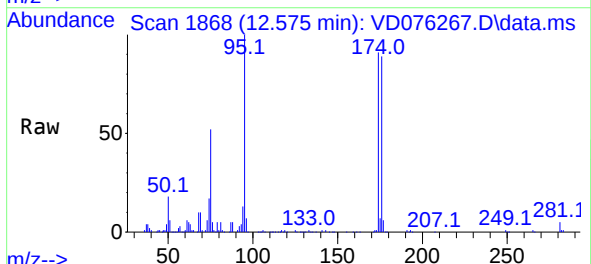
Instrument :
 MSVOA_D
 ClientSampleId :
 PNNL-RH-524-1

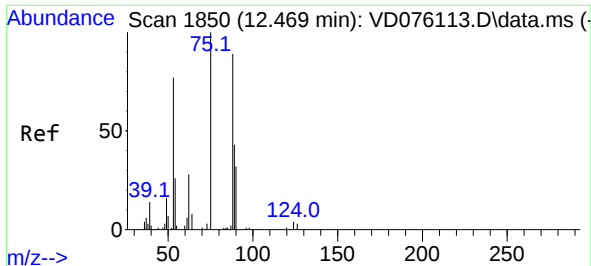
Tgt Ion:152 Resp: 167272
 Ion Ratio Lower Upper
 152 100
 115 52.7 30.1 90.3
 150 156.1 0.0 364.8



#76
 1,2,3-Trichloropropane
 Concen: 67.993 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. -0.153 min
 Lab File: VD076267.D
 Acq: 26 May 2023 19:40

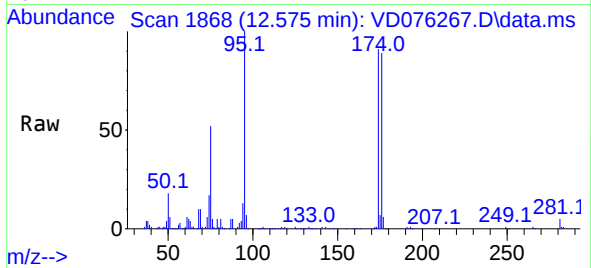
Tgt Ion: 75 Resp: 99526
 Ion Ratio Lower Upper
 75 100
 77 1.8 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 142.638 ug/l
 RT: 12.575 min Scan# 1868
 Delta R.T. 0.100 min
 Lab File: VD076267.D
 Acq: 26 May 2023 19:40

Instrument :
 MSVOA_D
 ClientSampleId :
 PNNL-RH-524-1



Tgt Ion:	75	Resp:	99526
Ion	Ratio	Lower	Upper
75	100		
53	0.2	90.5	135.7#
89	0.0	40.2	60.4#

