

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD110222\
 Data File : VD074705.D
 Acq On : 02 Nov 2022 15:21
 Operator : VA/SY
 Sample : VIBLK
 Misc : 5.00G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 VIBLK

Quant Time: Nov 03 02:32:29 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D110222S.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 03 02:30:45 2022
 Response via : Initial Calibration

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

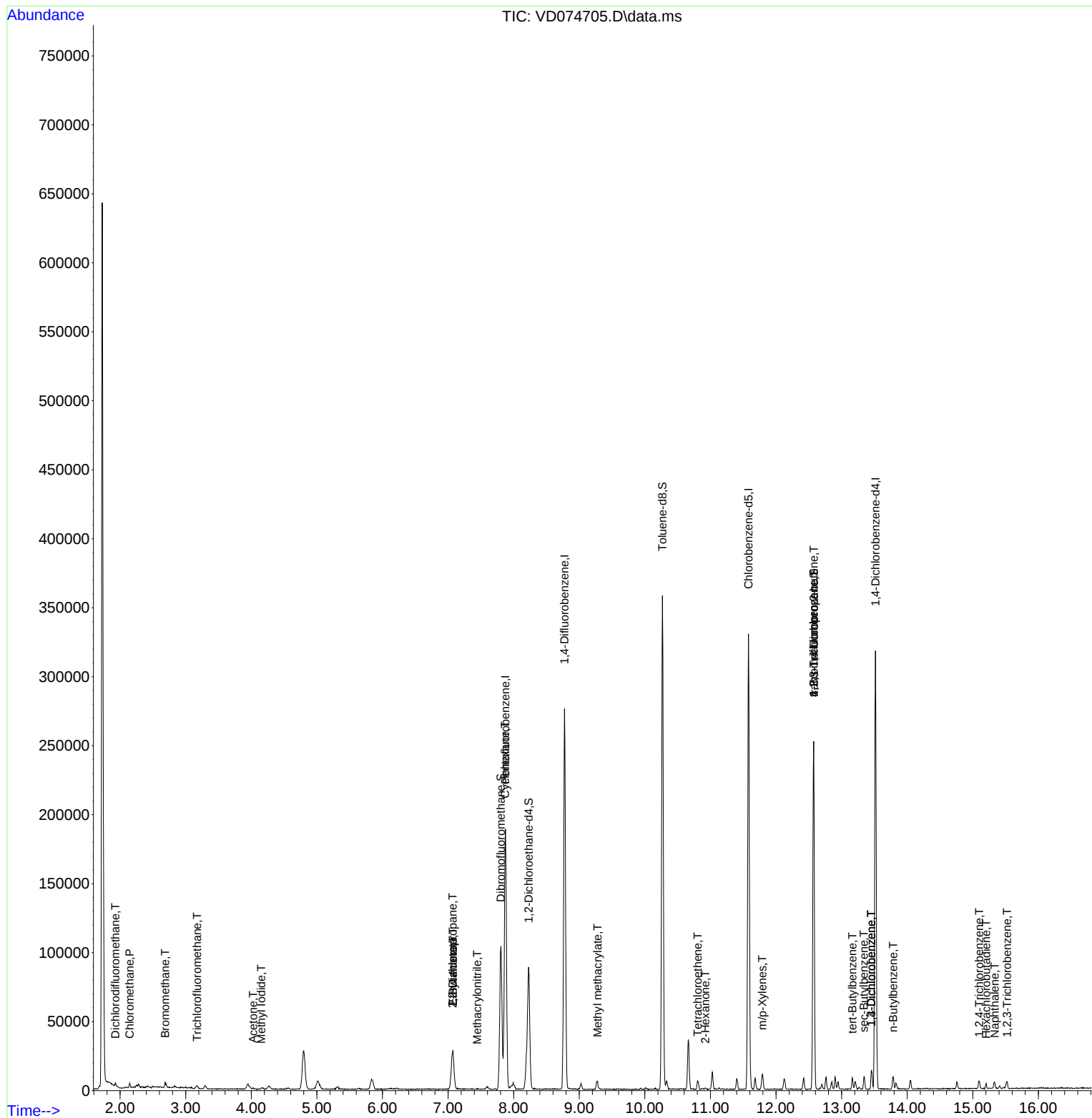
Internal Standards						
1) Pentafluorobenzene	7.875	168	152580	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.775	114	260141	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.581	117	204045	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.516	152	89642	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.228	65	62329	51.577	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 103.160%	
35) Dibromofluoromethane	7.804	113	77243	50.196	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 100.400%	
50) Toluene-d8	10.269	98	258526	46.057	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 92.120%	
62) 4-Bromofluorobenzene	12.575	95	75275	46.445	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 92.900%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.928	85	1927	1.538	ug/l	91
3) Chloromethane	2.146	50	2450	1.225	ug/l	98
5) Bromomethane	2.687	94	2498	1.503	ug/l	98
7) Trichlorofluoromethane	3.175	101	2788	1.094	ug/l	89
10) Methyl Iodide	4.152	142	1477	6.182	ug/l #	60
11) Tert butyl alcohol	5.010	59	5960	Below Cal	#	84
16) Acetone	4.028	43	1030	4.084	ug/l #	70
25) 2-Butanone	7.075	43	2114	6.097	ug/l	95
26) 2,2-Dichloropropane	7.069	77	3347	1.325	ug/l #	55
31) Cyclohexane	7.869	56	5004	2.045	ug/l #	65
37) Ethyl Acetate	7.075	43	2114	2.713	ug/l #	1
41) Methacrylonitrile	7.446	41	113	4.351	ug/l #	17
48) Methyl methacrylate	9.281	41	938	1.452	ug/l #	37
59) 2-Hexanone	10.922	43	785	1.623	ug/l	84
64) Tetrachloroethene	10.804	164	1538	1.067	ug/l #	79
68) m/p-Xylenes	11.792	106	4176	1.469	ug/l	90
76) 1,2,3-Trichloropropane	12.575	75	36274	52.200	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.575	75	36274	123.909	ug/l #	17
83) tert-Butylbenzene	13.163	119	4766	1.012	ug/l	95
85) sec-Butylbenzene	13.339	105	7285	1.025	ug/l	99
87) 1,3-Dichlorobenzene	13.451	146	3130	1.001	ug/l	98
88) 1,4-Dichlorobenzene	13.451	146	3130	1.018	ug/l	96
89) n-Butylbenzene	13.786	91	5818	1.063	ug/l	98
93) 1,2,4-Trichlorobenzene	15.098	180	2640	1.605	ug/l	96
94) Hexachlorobutadiene	15.204	225	916	1.065	ug/l	95
95) Naphthalene	15.333	128	5623	1.780	ug/l #	91
96) 1,2,3-Trichlorobenzene	15.522	180	2516	1.739	ug/l	91

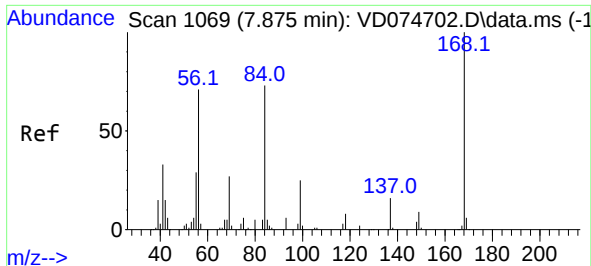
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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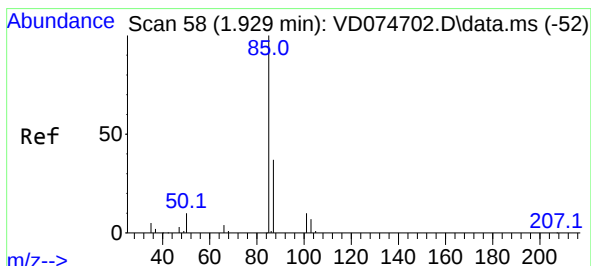
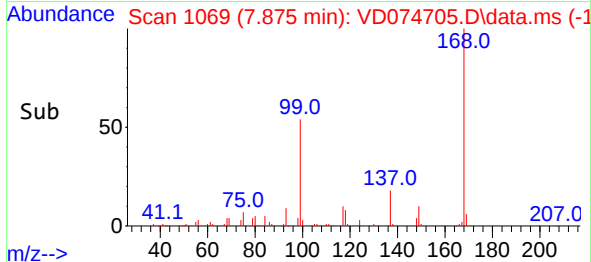
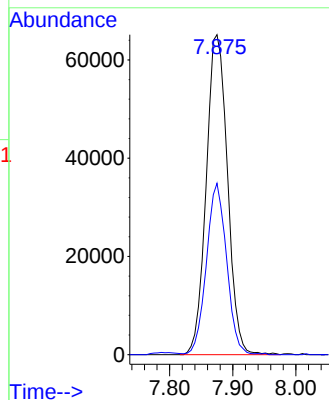
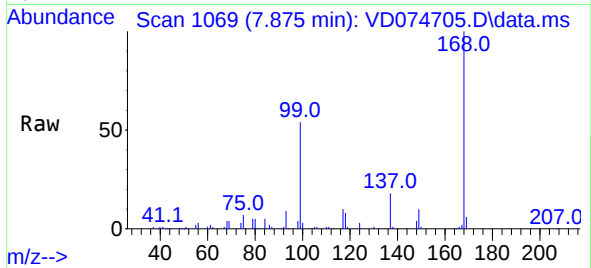




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.875 min Scan# 1069
Delta R.T. 0.000 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

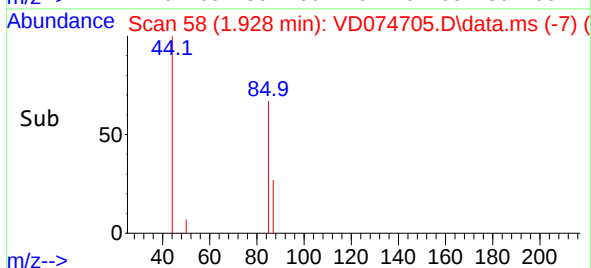
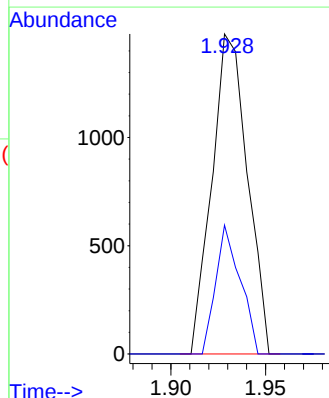
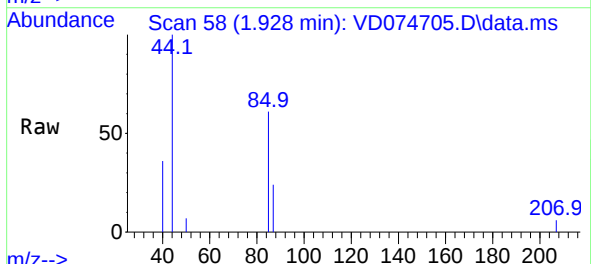
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Tgt Ion:168 Resp: 152580
Ion Ratio Lower Upper
168 100
99 53.6 40.9 61.3

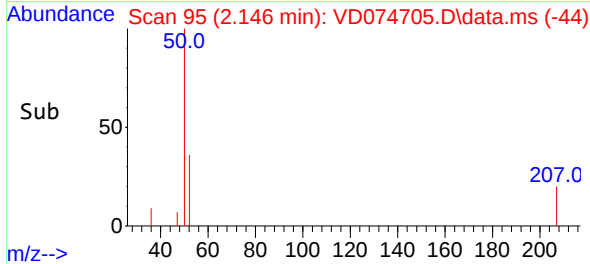
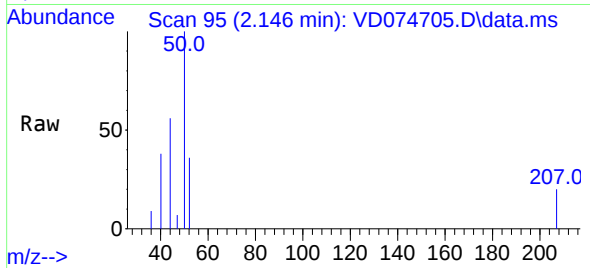
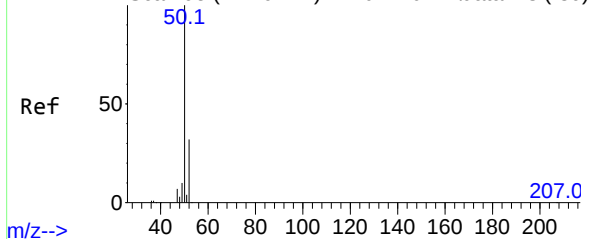


#2
Dichlorodifluoromethane
Concen: 1.538 ug/l
RT: 1.928 min Scan# 58
Delta R.T. -0.001 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion: 85 Resp: 1927
Ion Ratio Lower Upper
85 100
87 40.3 17.5 52.6



Abundance Scan 95 (2.146 min): VD074702.D\data.ms (-89)



#3

Chloromethane

Concen: 1.225 ug/l

RT: 2.146 min Scan# 91

Delta R.T. -0.000 min

Lab File: VD074705.D

Acq: 02 Nov 2022 15:21

Instrument :

MSVOA_D

ClientSampleId :

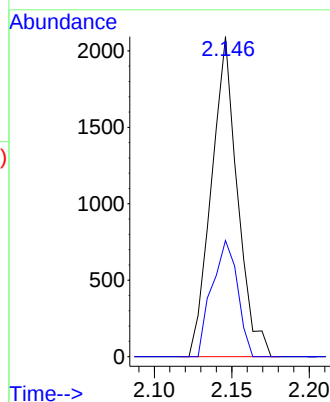
VIBLK

Tgt Ion: 50 Resp: 2450

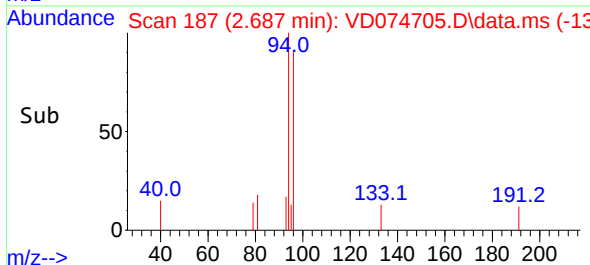
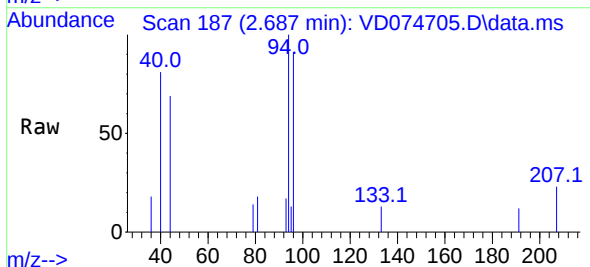
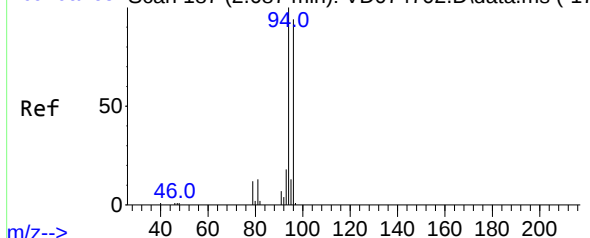
Ion Ratio Lower Upper

50 100

52 36.3 30.0 45.0



Abundance Scan 187 (2.687 min): VD074702.D\data.ms (-17)



#5

Bromomethane

Concen: 1.503 ug/l

RT: 2.687 min Scan# 187

Delta R.T. 0.000 min

Lab File: VD074705.D

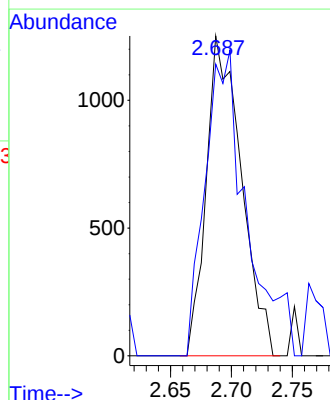
Acq: 02 Nov 2022 15:21

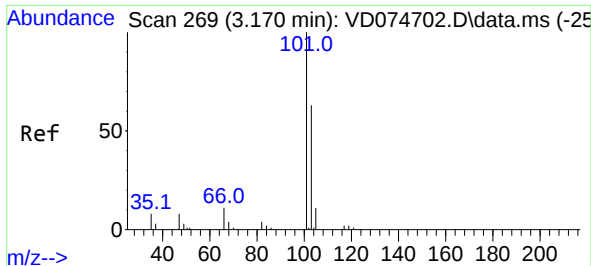
Tgt Ion: 94 Resp: 2498

Ion Ratio Lower Upper

94 100

96 91.2 74.6 112.0

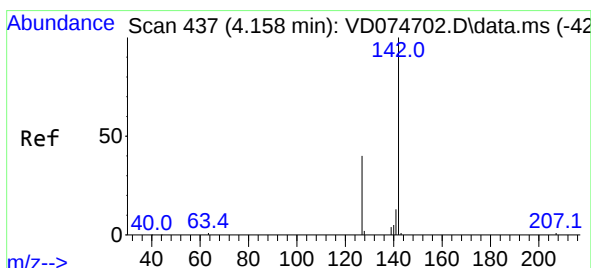
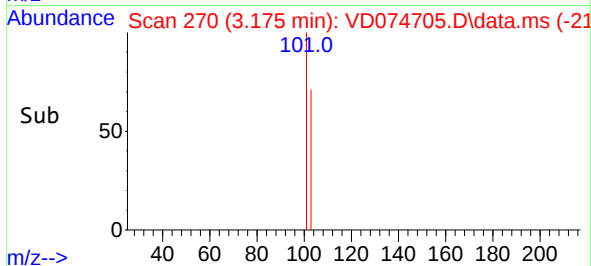
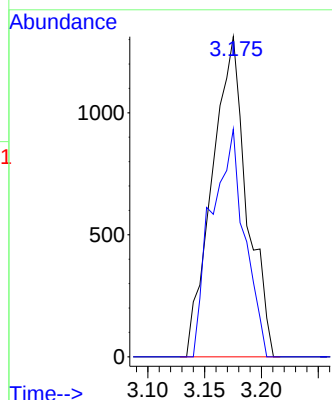
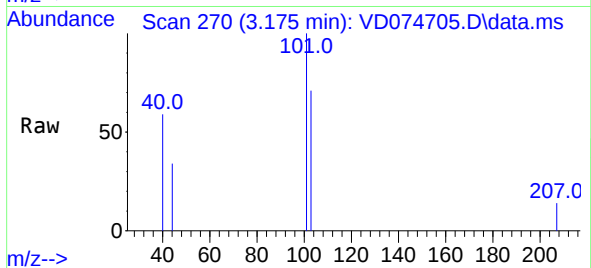




#7
Trichlorofluoromethane
Concen: 1.094 ug/l
RT: 3.175 min Scan# 21
Delta R.T. 0.005 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

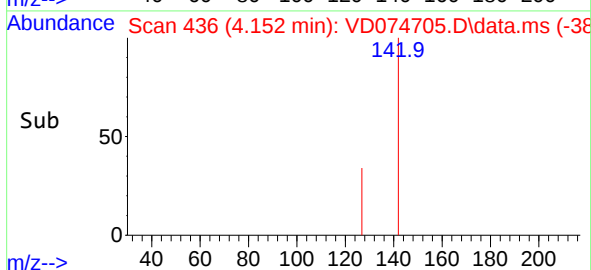
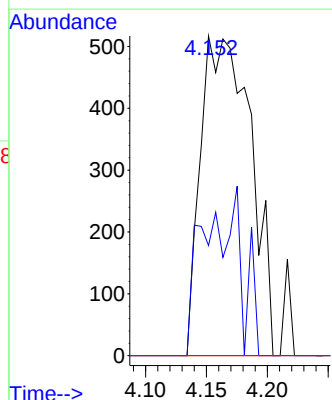
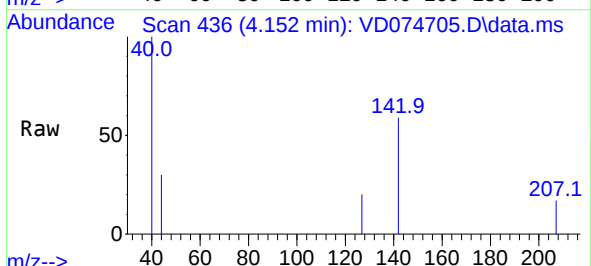
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

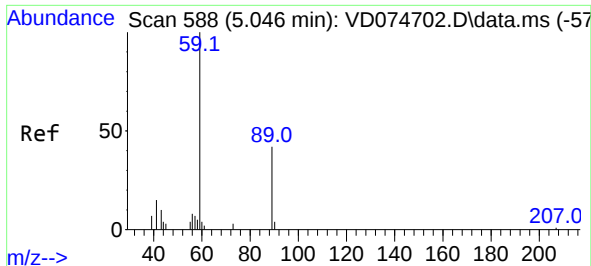
Tgt Ion:101 Resp: 2788
Ion Ratio Lower Upper
101 100
103 71.1 49.8 74.8



#10
Methyl Iodide
Concen: 6.182 ug/l
RT: 4.152 min Scan# 436
Delta R.T. -0.006 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion:142 Resp: 1477
Ion Ratio Lower Upper
142 100
127 14.3 31.9 47.9#
141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.010 min Scan# 51

Delta R.T. -0.036 min

Lab File: VD074705.D

Acq: 02 Nov 2022 15:21

Instrument :

MSVOA_D

ClientSampleId :

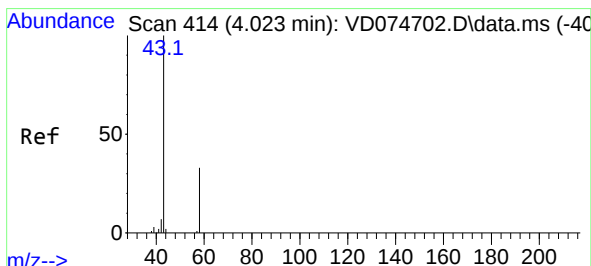
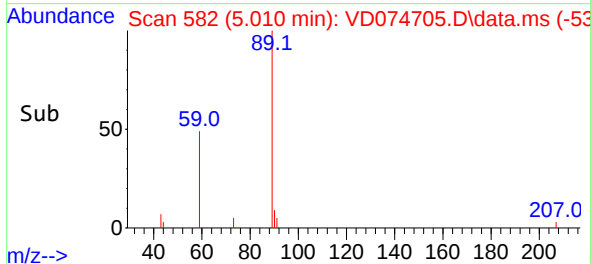
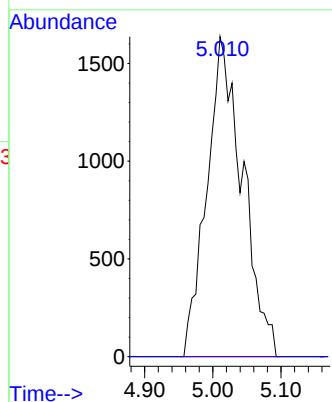
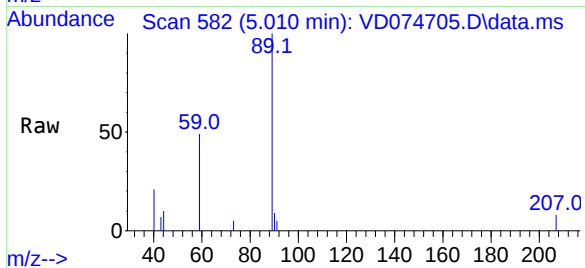
VIBLK

Tgt Ion: 59 Resp: 5960

Ion Ratio Lower Upper

59 100

57 0.0 4.4 6.6#



#16

Acetone

Concen: 4.084 ug/l

RT: 4.028 min Scan# 415

Delta R.T. 0.005 min

Lab File: VD074705.D

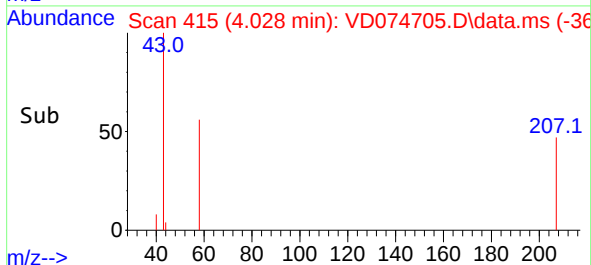
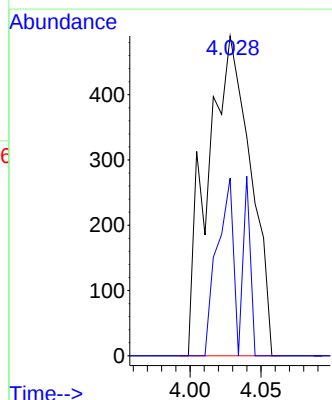
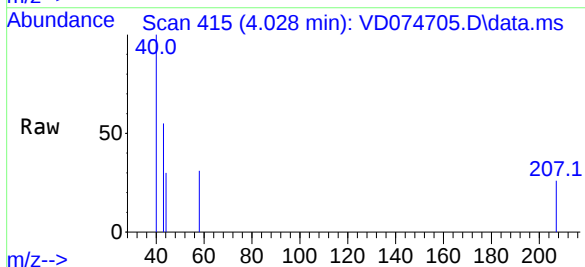
Acq: 02 Nov 2022 15:21

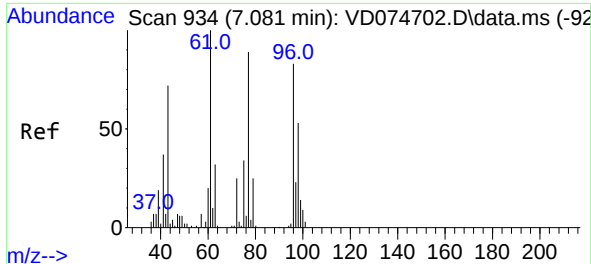
Tgt Ion: 43 Resp: 1030

Ion Ratio Lower Upper

43 100

58 55.5 30.2 45.2#

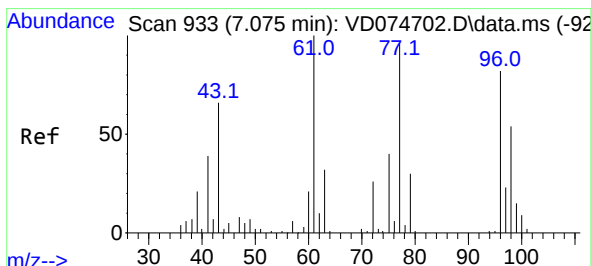
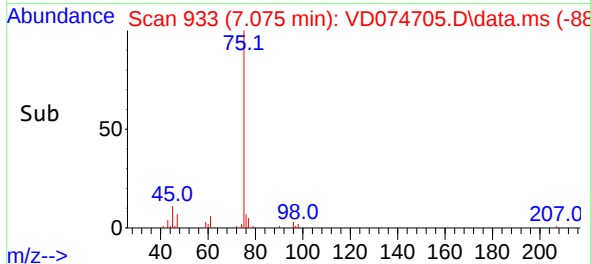
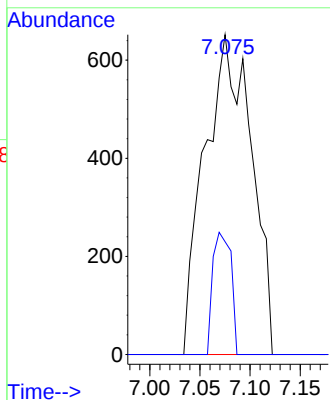
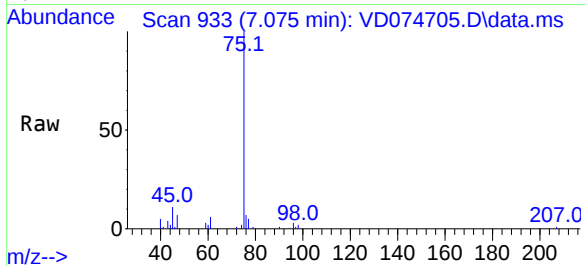




#25
2-Butanone
Concen: 6.097 ug/l
RT: 7.075 min Scan# 911
Delta R.T. -0.006 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

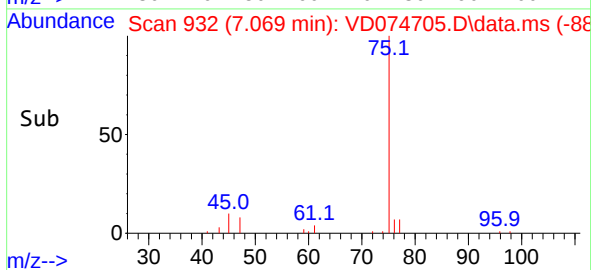
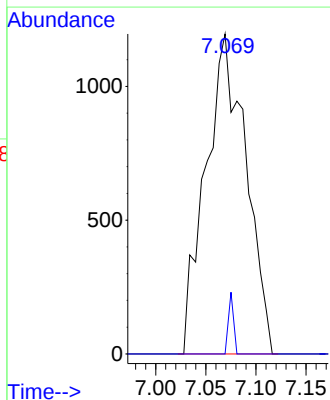
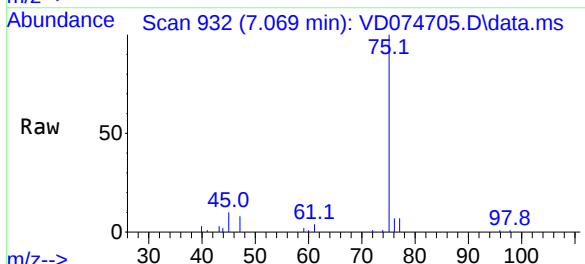
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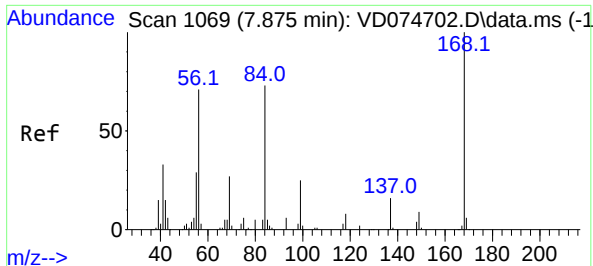
Tgt Ion: 43 Resp: 2114
Ion Ratio Lower Upper
43 100
72 35.3 25.8 38.8



#26
2,2-Dichloropropane
Concen: 1.325 ug/l
RT: 7.069 min Scan# 932
Delta R.T. -0.006 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion: 77 Resp: 3347
Ion Ratio Lower Upper
77 100
97 2.4 12.5 37.5#





#31

Cyclohexane

Concen: 2.045 ug/l

RT: 7.869 min Scan# 1106

Delta R.T. -0.006 min

Lab File: VD074705.D

Acq: 02 Nov 2022 15:21

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

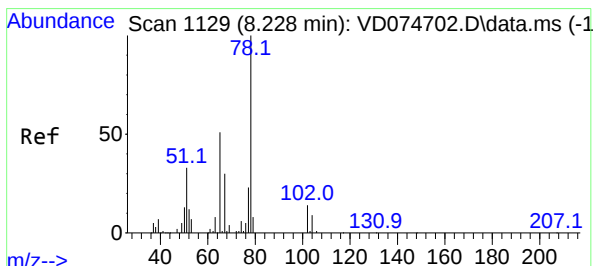
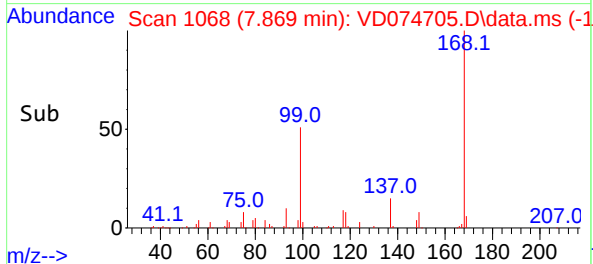
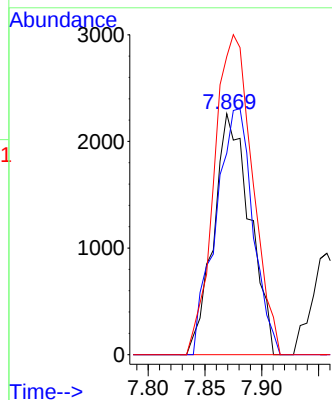
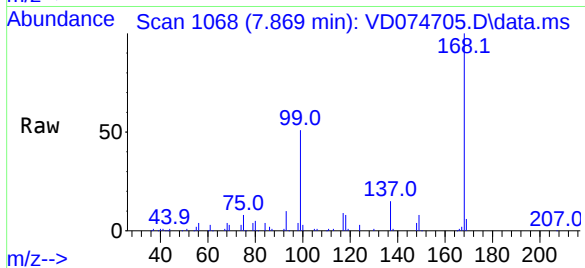
Tgt Ion: 56 Resp: 5004

Ion Ratio Lower Upper

56 100

69 83.6 29.2 43.8#

84 123.7 83.4 125.2



#33

1,2-Dichloroethane-d4

Concen: 51.577 ug/l

RT: 8.228 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VD074705.D

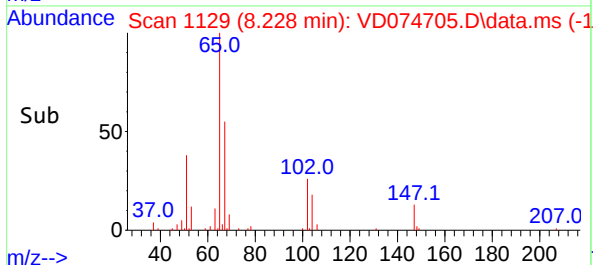
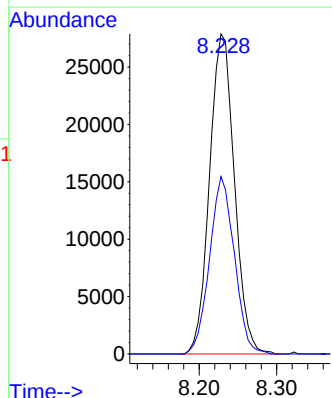
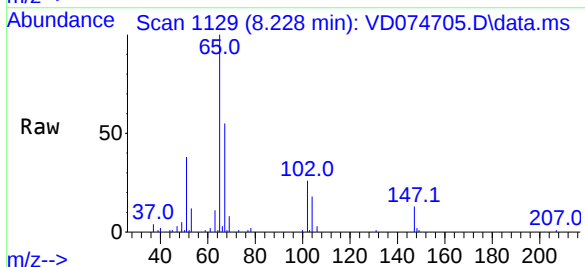
Acq: 02 Nov 2022 15:21

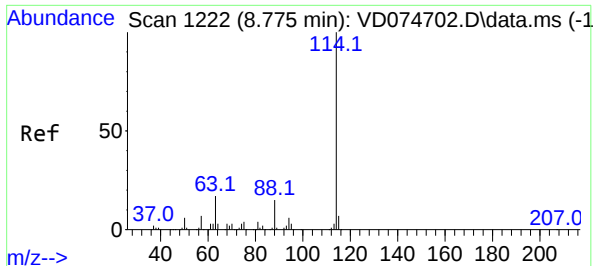
Tgt Ion: 65 Resp: 62329

Ion Ratio Lower Upper

65 100

67 55.3 0.0 110.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.000 min

Lab File: VD074705.D

Acq: 02 Nov 2022 15:21

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

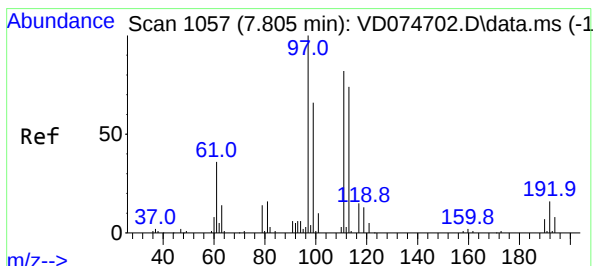
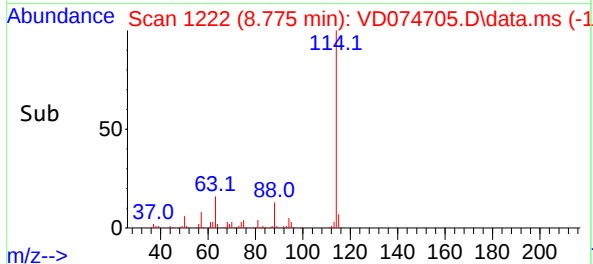
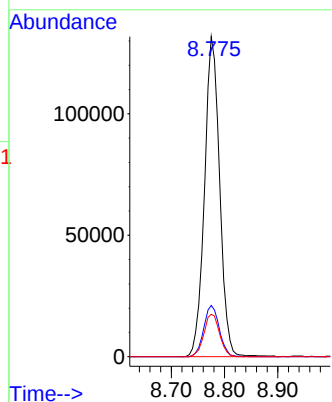
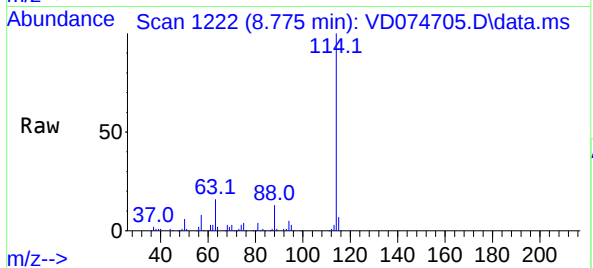
Tgt Ion:114 Resp: 260141

Ion Ratio Lower Upper

114 100

63 16.0 0.0 33.2

88 13.2 0.0 28.2



#35

Dibromofluoromethane

Concen: 50.196 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.001 min

Lab File: VD074705.D

Acq: 02 Nov 2022 15:21

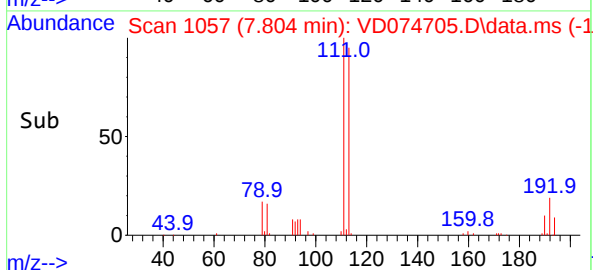
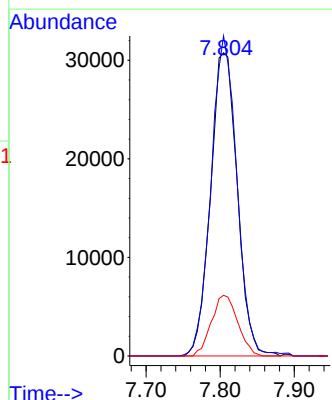
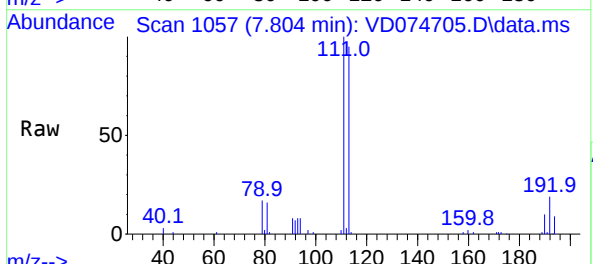
Tgt Ion:113 Resp: 77243

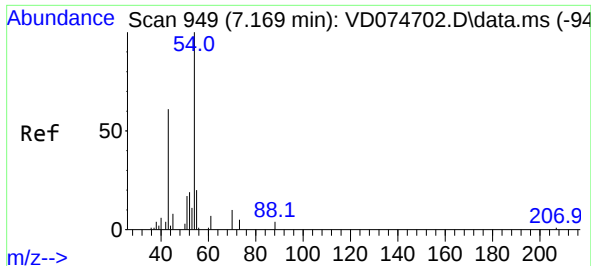
Ion Ratio Lower Upper

113 100

111 101.9 82.3 123.5

192 19.7 16.4 24.6





#37

Ethyl Acetate

Concen: 2.713 ug/l

RT: 7.075 min Scan# 911

Delta R.T. -0.094 min

Lab File: VD074705.D

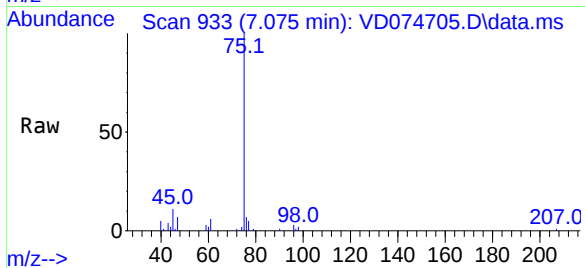
Acq: 02 Nov 2022 15:21

Instrument :

MSVOA_D

ClientSampleId :

VIBLK



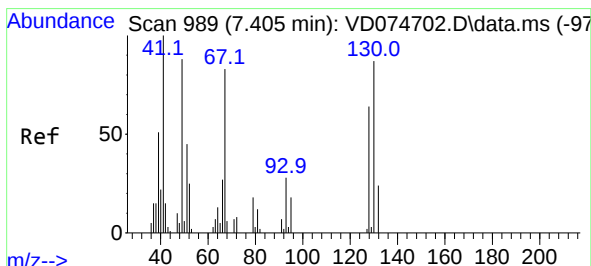
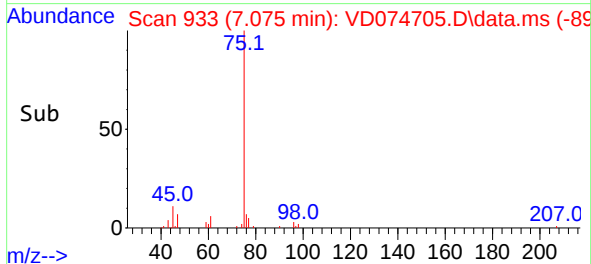
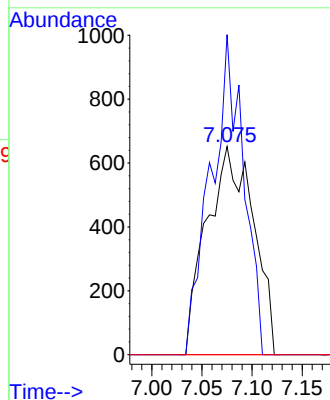
Tgt Ion: 43 Resp: 2114

Ion Ratio Lower Upper

43 100

61 107.6 12.2 18.4#

70 0.0 9.6 14.4#



#41

Methacrylonitrile

Concen: 4.351 ug/l

RT: 7.446 min Scan# 996

Delta R.T. 0.041 min

Lab File: VD074705.D

Acq: 02 Nov 2022 15:21

Tgt Ion: 41 Resp: 113

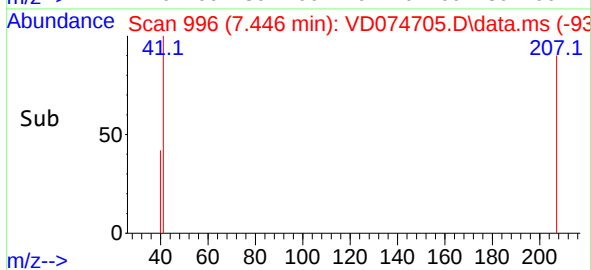
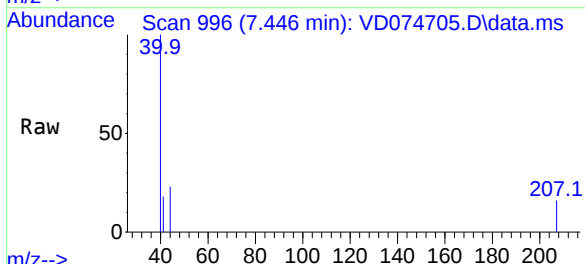
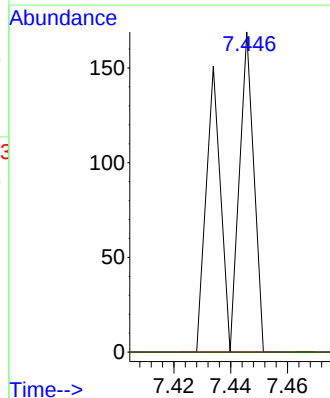
Ion Ratio Lower Upper

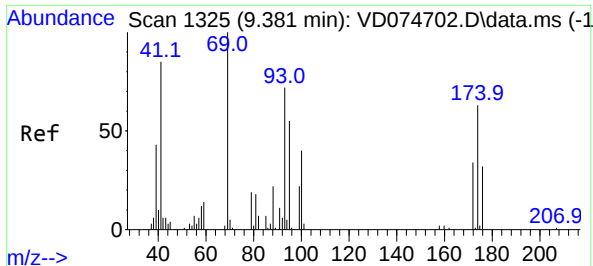
41 100

39 0.0 35.0 52.6#

67 0.0 77.0 115.6#

52 0.0 29.7 44.5#





#48

Methyl methacrylate

Concen: 1.452 ug/l

RT: 9.281 min Scan# 11

Delta R.T. -0.100 min

Lab File: VD074705.D

Acq: 02 Nov 2022 15:21

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

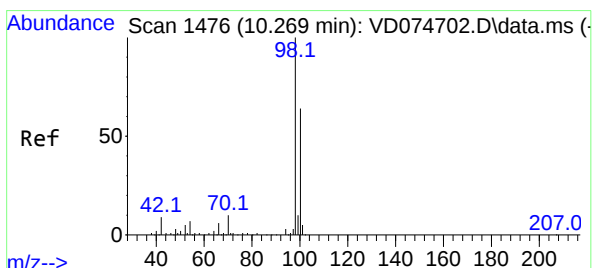
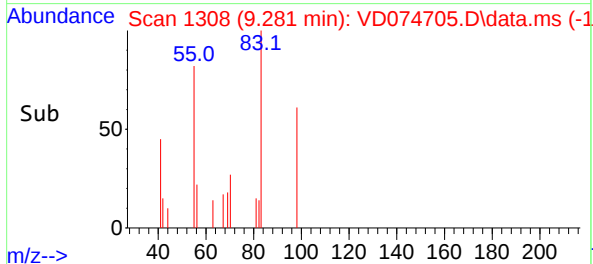
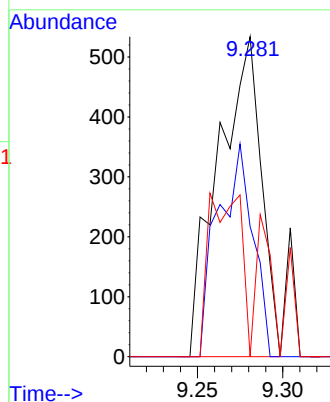
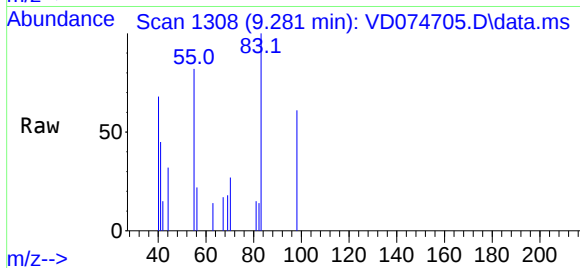
Tgt Ion: 41 Resp: 938

Ion Ratio Lower Upper

41 100

69 53.9 93.0 139.4#

39 0.0 44.6 66.8#



#50

Toluene-d8

Concen: 46.057 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD074705.D

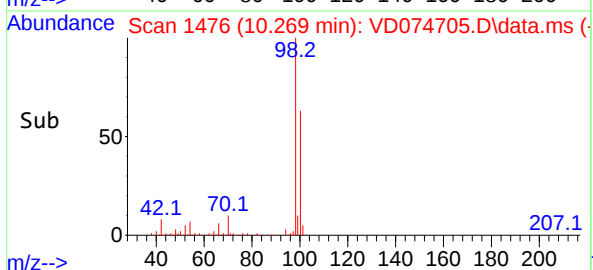
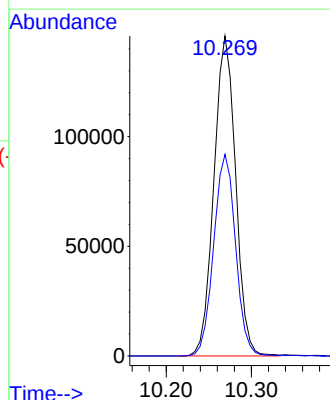
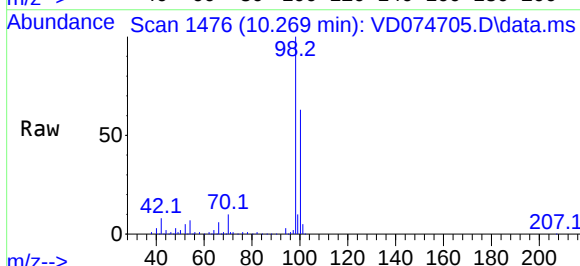
Acq: 02 Nov 2022 15:21

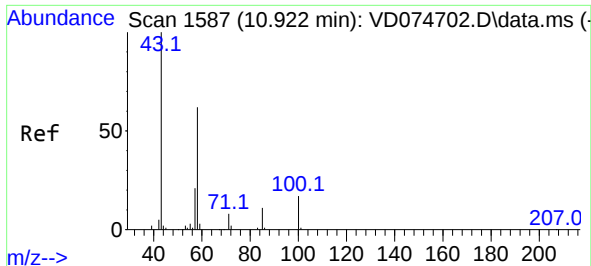
Tgt Ion: 98 Resp: 258526

Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.0

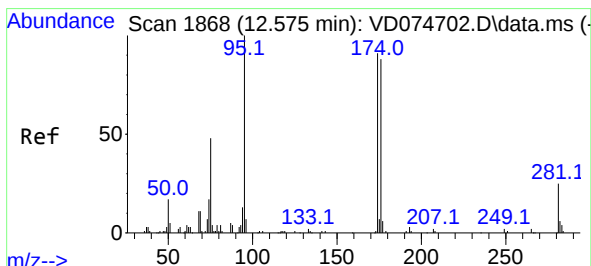
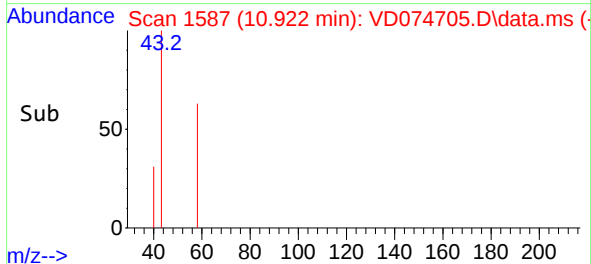
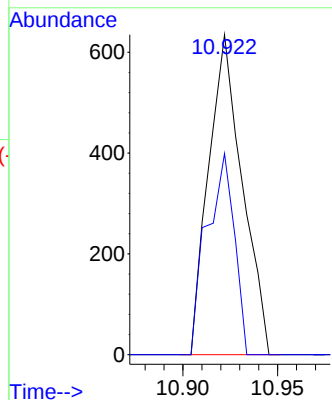
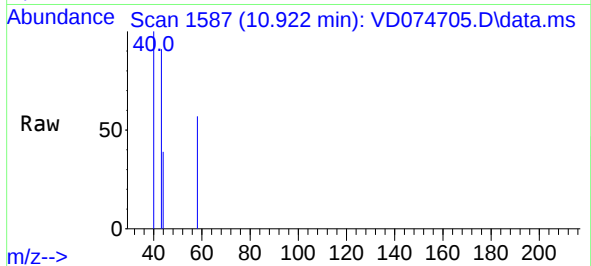




#59
2-Hexanone
Concen: 1.623 ug/l
RT: 10.922 min Scan# 1587
Delta R.T. -0.000 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

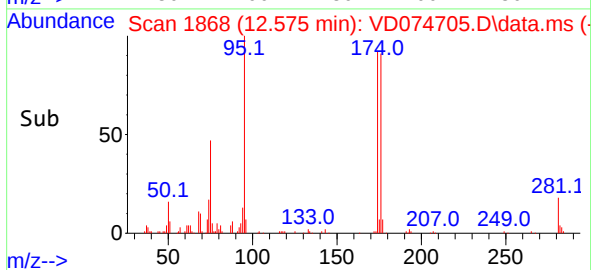
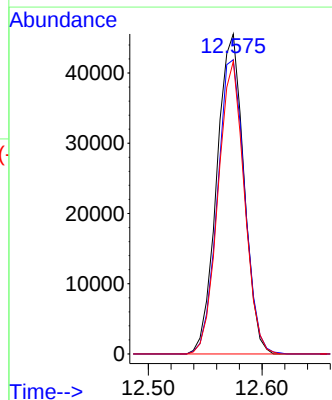
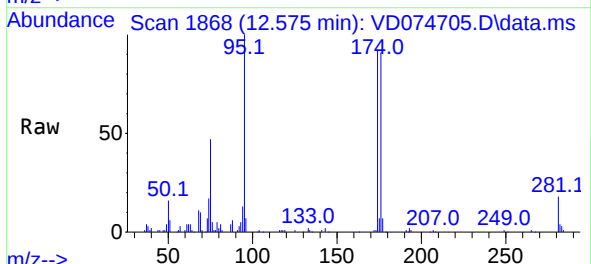
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

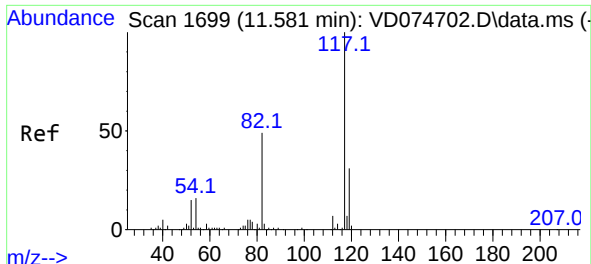
Tgt Ion: 43 Resp: 785
Ion Ratio Lower Upper
43 100
58 51.2 32.0 96.2



#62
4-Bromofluorobenzene
Concen: 46.445 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.000 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion: 95 Resp: 75275
Ion Ratio Lower Upper
95 100
174 92.5 0.0 197.0
176 88.5 0.0 182.6



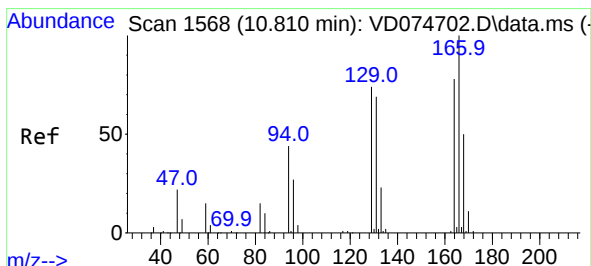
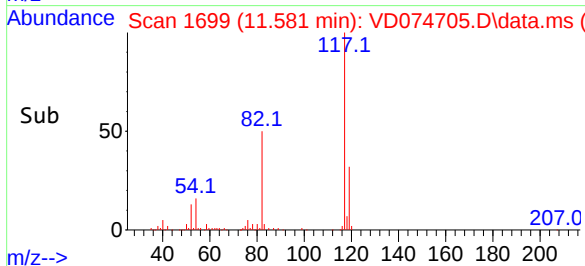
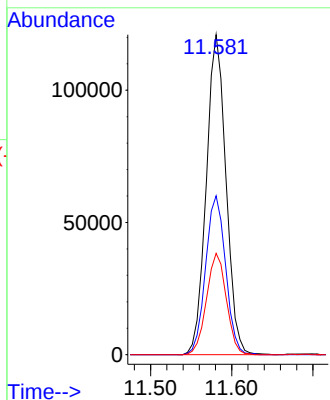
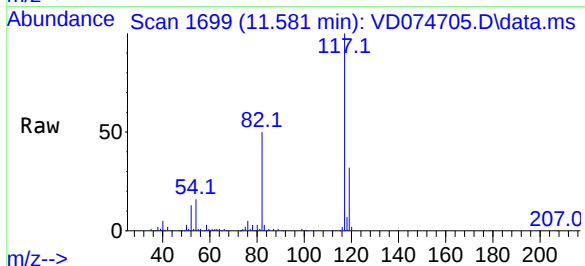


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.581 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Tgt Ion:117 Resp: 204045

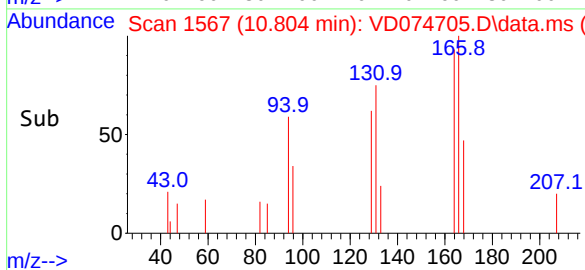
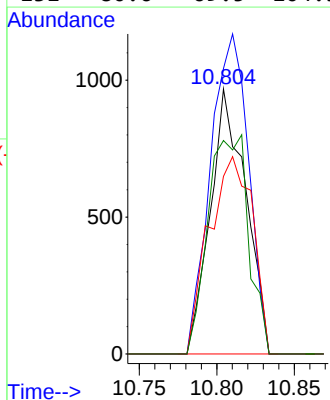
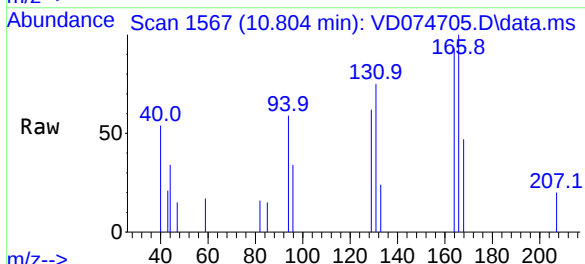
Ion	Ratio	Lower	Upper
117	100		
82	49.7	41.6	62.4
119	31.7	25.2	37.8

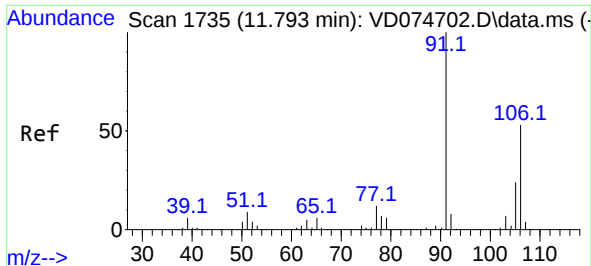


#64
Tetrachloroethene
Concen: 1.067 ug/l
RT: 10.804 min Scan# 1567
Delta R.T. -0.006 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion:164 Resp: 1538

Ion	Ratio	Lower	Upper
164	100		
166	107.7	107.8	161.8#
129	67.0	77.4	116.2#
131	80.6	69.5	104.3

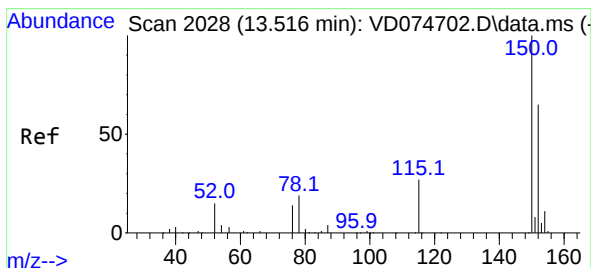
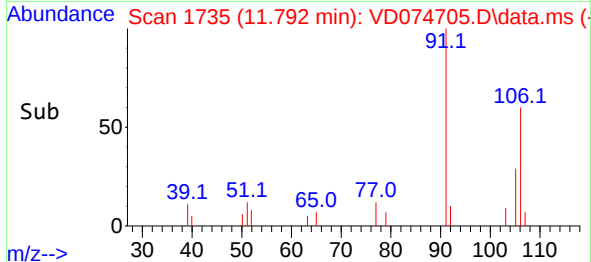
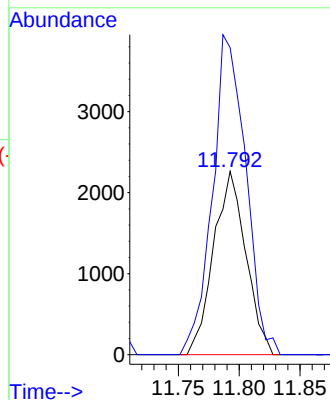
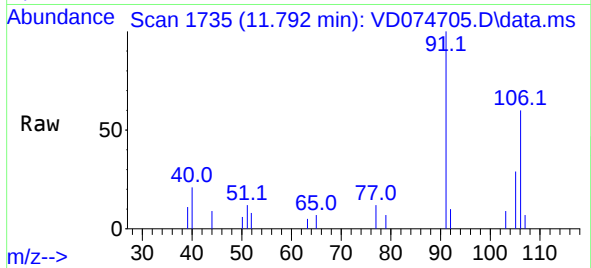




#68
m/p-Xylenes
Concen: 1.469 ug/l
RT: 11.792 min Scan# 1735
Delta R.T. -0.001 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

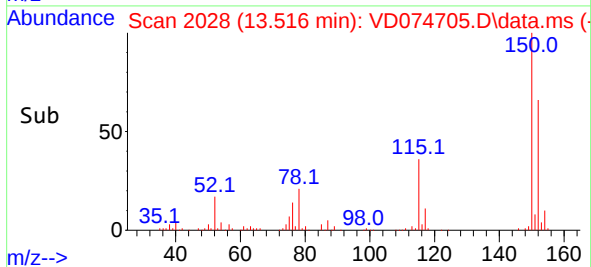
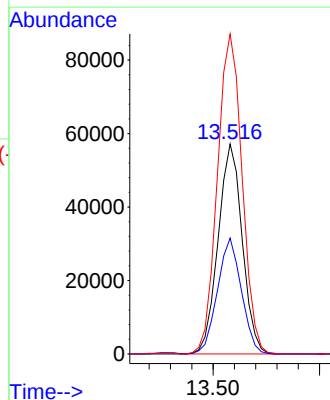
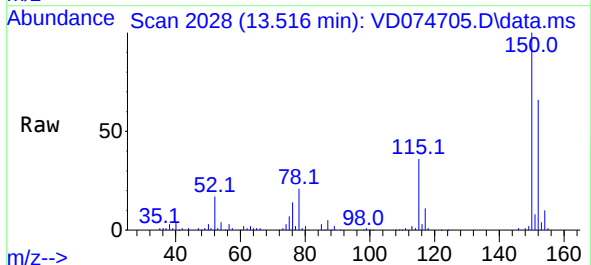
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

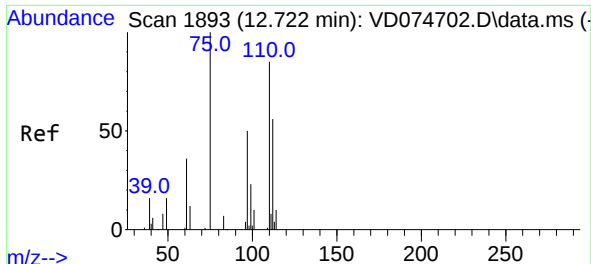
Tgt Ion:106 Resp: 4176
Ion Ratio Lower Upper
106 100
91 179.8 156.2 234.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.516 min Scan# 2028
Delta R.T. -0.000 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion:152 Resp: 89642
Ion Ratio Lower Upper
152 100
115 54.8 26.8 80.4
150 156.3 0.0 348.2

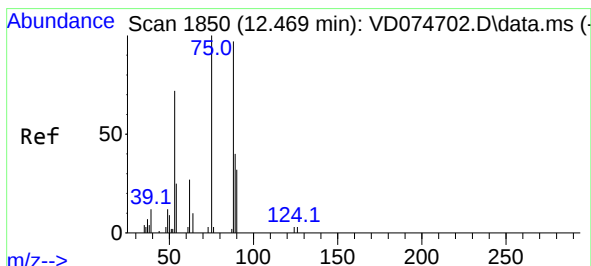
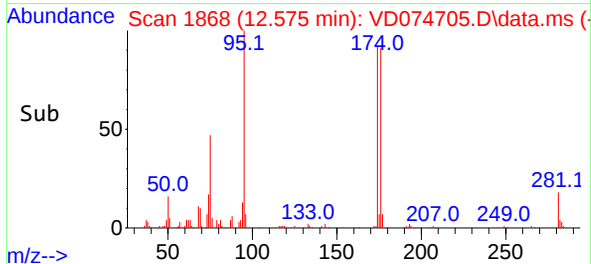
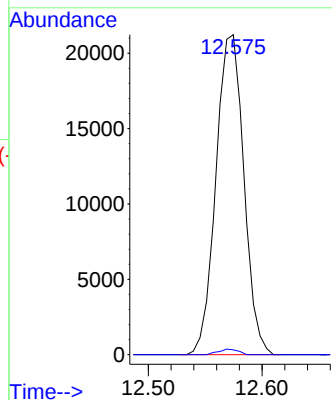
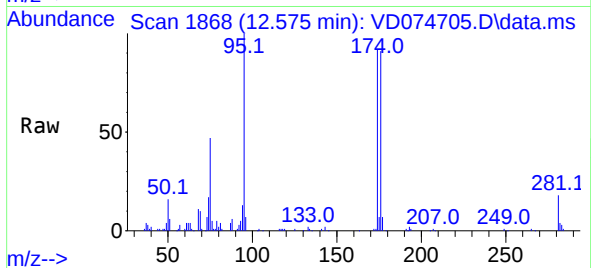




#76
1,2,3-Trichloropropane
Concen: 52.200 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. -0.147 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

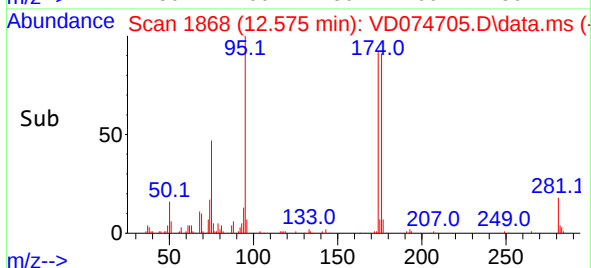
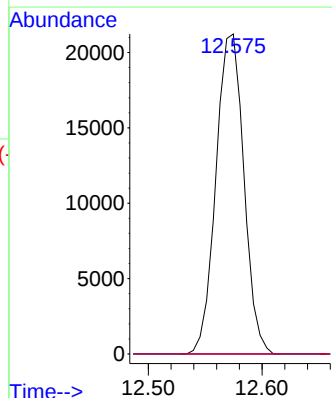
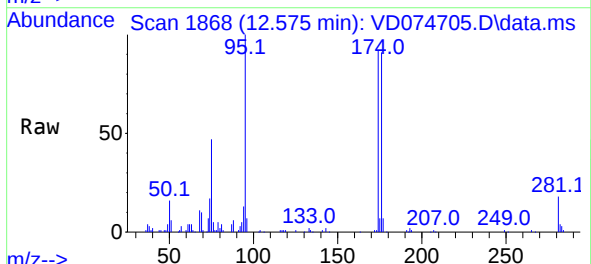
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

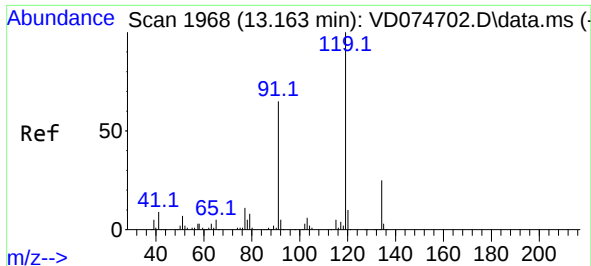
Tgt Ion: 75 Resp: 36274
Ion Ratio Lower Upper
75 100
77 1.2 185.8 557.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 123.909 ug/l
RT: 12.575 min Scan# 1868
Delta R.T. 0.106 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion: 75 Resp: 36274
Ion Ratio Lower Upper
75 100
53 0.0 63.8 95.6#
89 0.0 38.2 57.4#

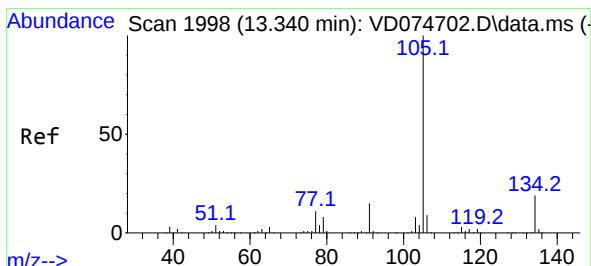
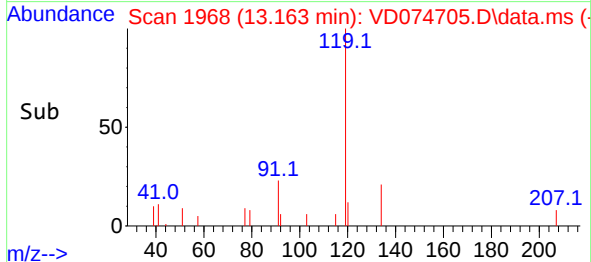
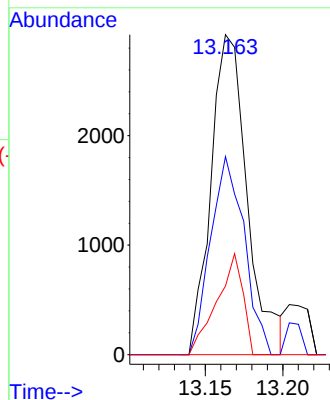
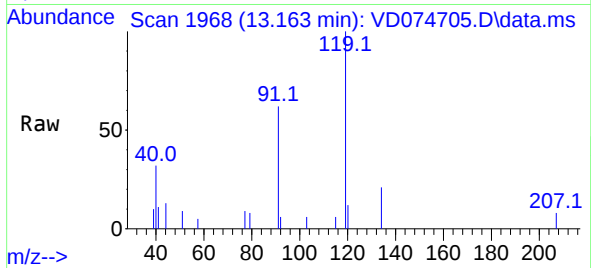




#83
tert-Butylbenzene
Concen: 1.012 ug/l
RT: 13.163 min Scan# 1968
Delta R.T. -0.000 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

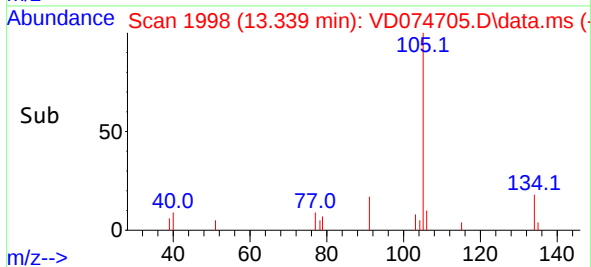
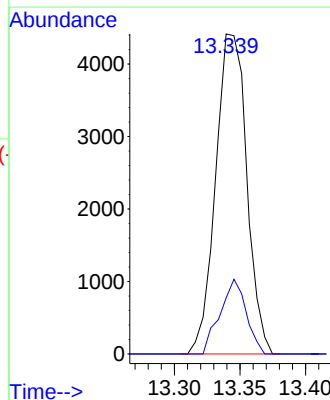
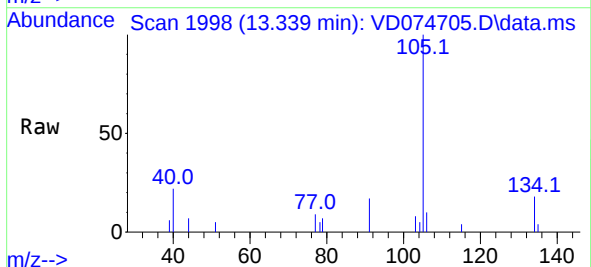
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

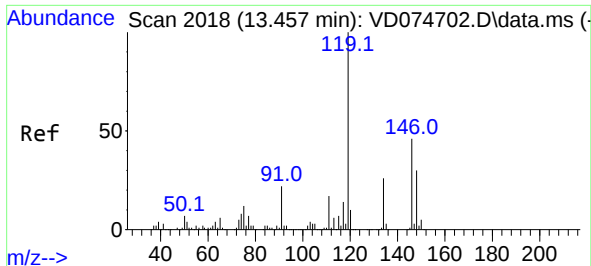
Tgt Ion:119 Resp: 4766
Ion Ratio Lower Upper
119 100
91 57.2 30.0 90.0
134 22.6 13.4 40.1



#85
sec-Butylbenzene
Concen: 1.025 ug/l
RT: 13.339 min Scan# 1998
Delta R.T. -0.001 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion:105 Resp: 7285
Ion Ratio Lower Upper
105 100
134 19.6 10.0 30.0





#87

1,3-Dichlorobenzene

Concen: 1.001 ug/l

RT: 13.451 min Scan# 2017

Delta R.T. -0.006 min

Lab File: VD074705.D

Acq: 02 Nov 2022 15:21

Instrument :

MSVOA_D

ClientSampleId :

VIBLK

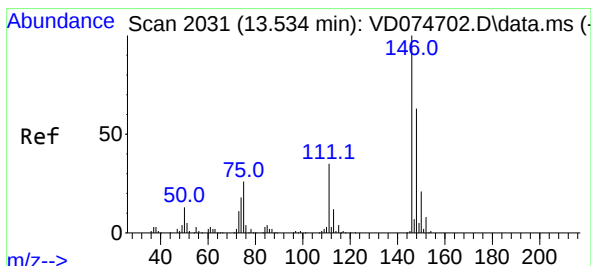
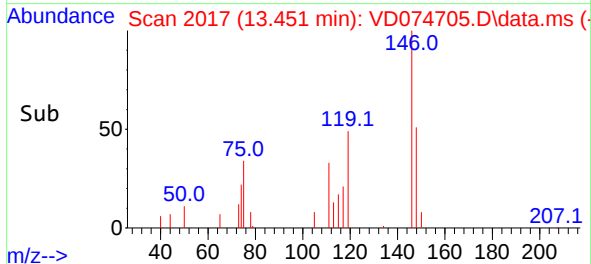
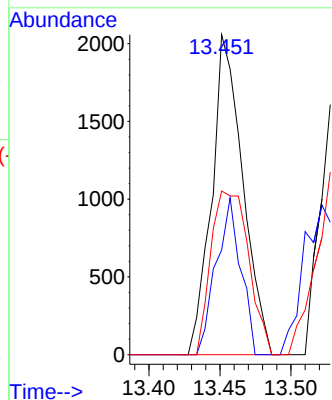
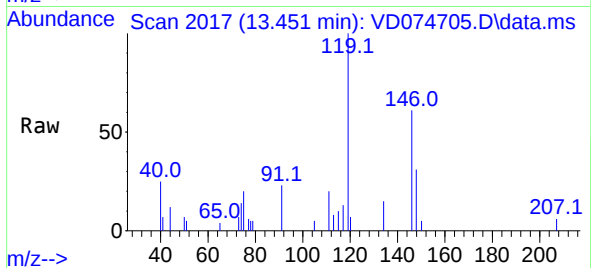
Tgt Ion:146 Resp: 3130

Ion Ratio Lower Upper

146 100

111 38.5 18.3 54.8

148 62.1 31.8 95.4



#88

1,4-Dichlorobenzene

Concen: 1.018 ug/l

RT: 13.451 min Scan# 2017

Delta R.T. -0.083 min

Lab File: VD074705.D

Acq: 02 Nov 2022 15:21

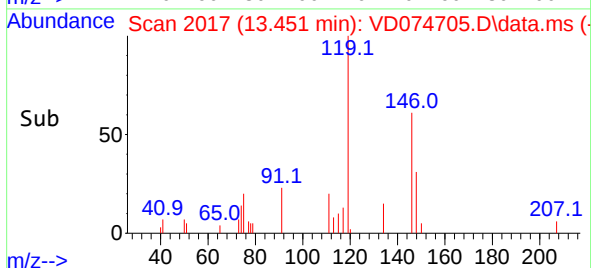
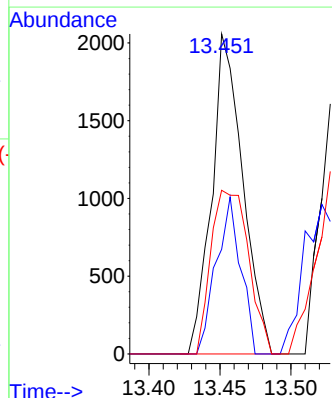
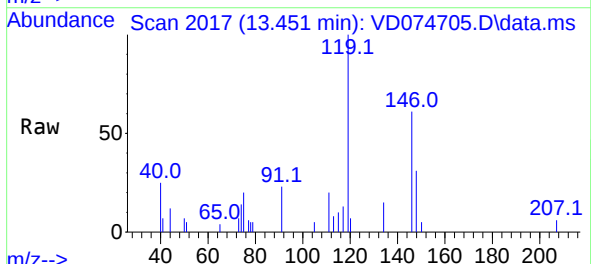
Tgt Ion:146 Resp: 3130

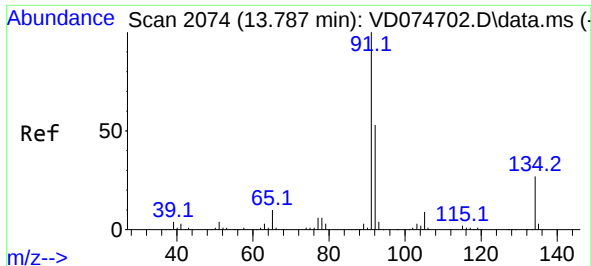
Ion Ratio Lower Upper

146 100

111 38.5 17.7 53.1

148 62.1 32.3 96.9

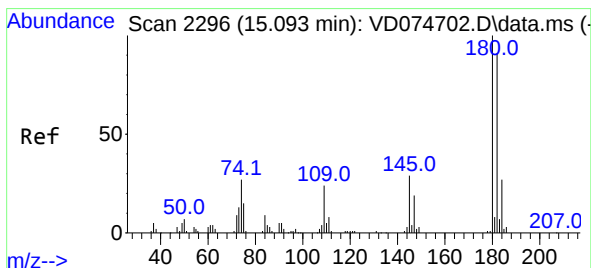
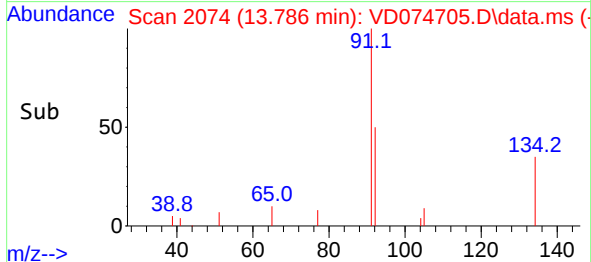
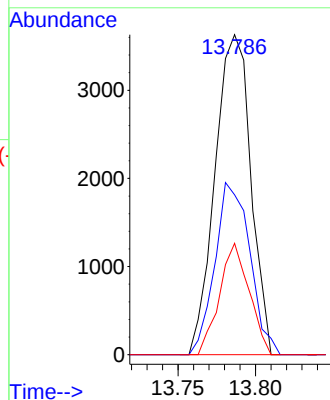
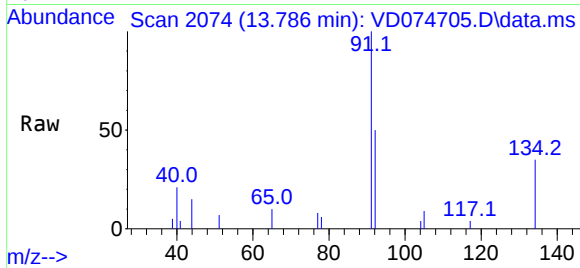




#89
n-Butylbenzene
Concen: 1.063 ug/l
RT: 13.786 min Scan# 2074
Delta R.T. -0.001 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

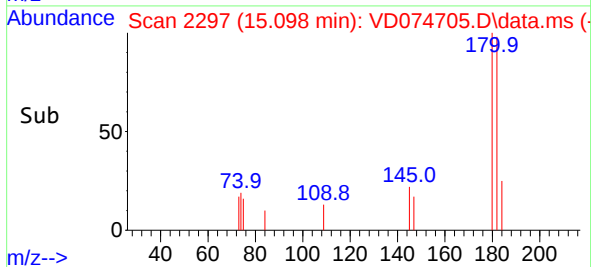
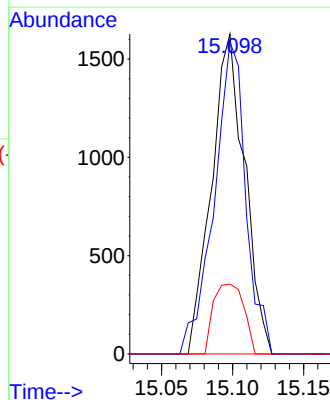
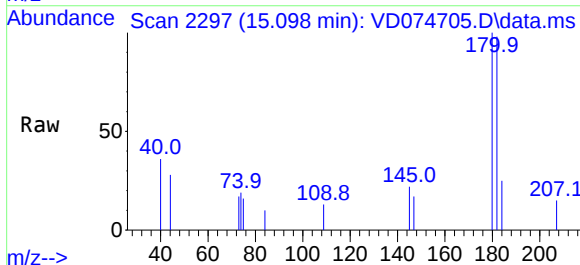
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

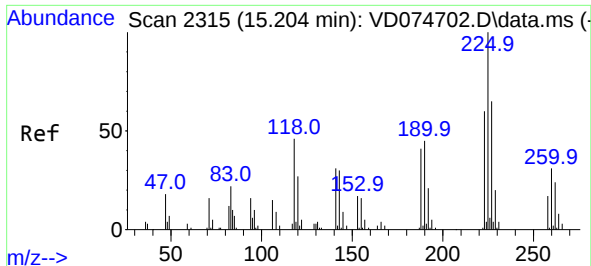
Tgt Ion:	91	Resp:	5818
Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.9	80.7
134	28.9	13.4	40.2



#93
1,2,4-Trichlorobenzene
Concen: 1.605 ug/l
RT: 15.098 min Scan# 2297
Delta R.T. 0.005 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion:	180	Resp:	2640
Ion	Ratio	Lower	Upper
180	100		
182	92.8	46.9	140.6
145	20.0	14.1	42.3

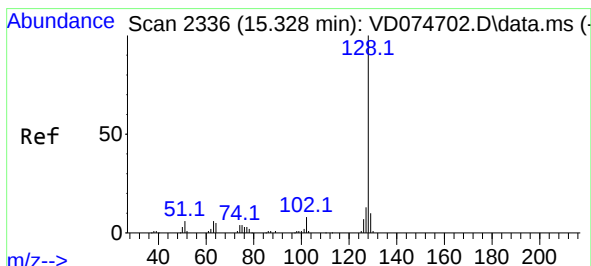
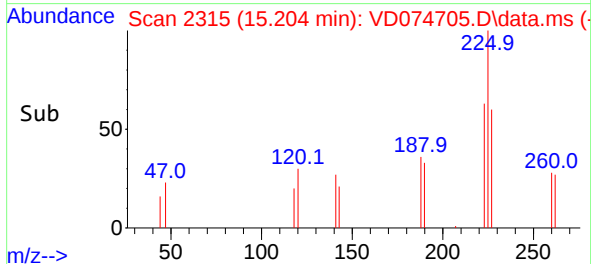
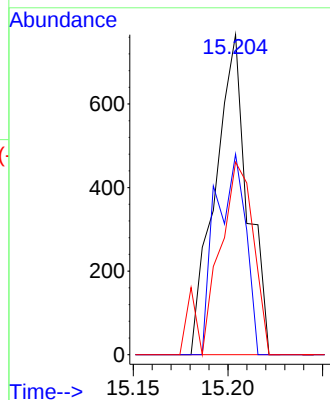
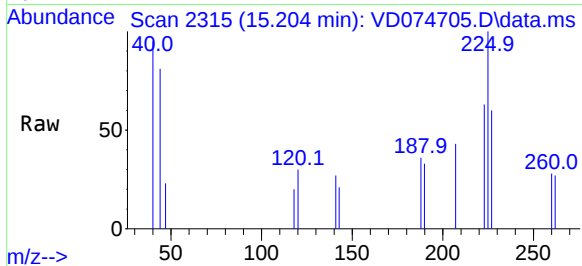




#94
Hexachlorobutadiene
Concen: 1.065 ug/l
RT: 15.204 min Scan# 21
Delta R.T. 0.000 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

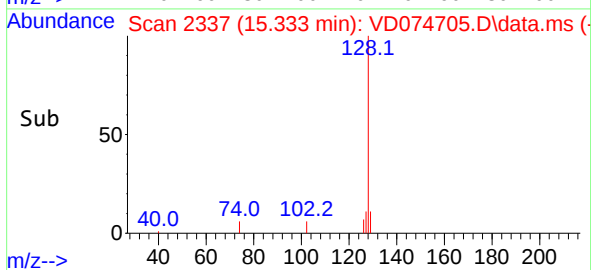
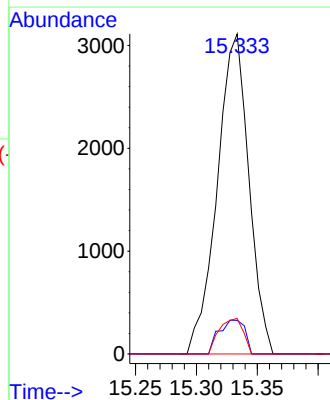
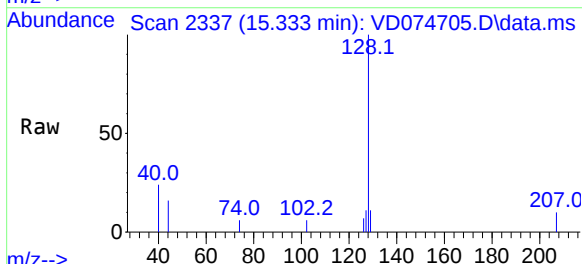
Instrument :
MSVOA_D
ClientSampleId :
VIBLK

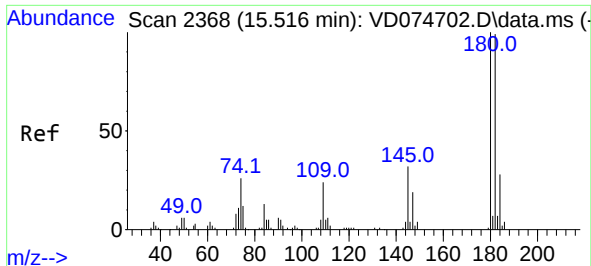
Tgt Ion:	225	Resp:	916
Ion	Ratio	Lower	Upper
225	100		
223	57.6	31.9	95.5
227	66.4	32.6	97.8



#95
Naphthalene
Concen: 1.780 ug/l
RT: 15.333 min Scan# 2337
Delta R.T. 0.005 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Tgt Ion:	128	Resp:	5623
Ion	Ratio	Lower	Upper
128	100		
127	8.6	10.6	16.0#
129	8.4	8.3	12.5





#96
1,2,3-Trichlorobenzene
Concen: 1.739 ug/l
RT: 15.522 min Scan# 21
Delta R.T. 0.006 min
Lab File: VD074705.D
Acq: 02 Nov 2022 15:21

Instrument :
MSVOA_D
ClientSampleId :
VIBLK

Tgt Ion:180 Resp: 2516
Ion Ratio Lower Upper
180 100
182 82.9 46.7 140.1
145 28.7 14.9 44.7

