

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN081922\  
 Data File : VN074030.D  
 Acq On : 19 Aug 2022 16:38  
 Operator : JC\MD  
 Sample : PB147119ZHE#01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB147119ZHE#01

Quant Time: Aug 20 03:05:31 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 16 00:45:21 2022  
 Response via : Initial Calibration

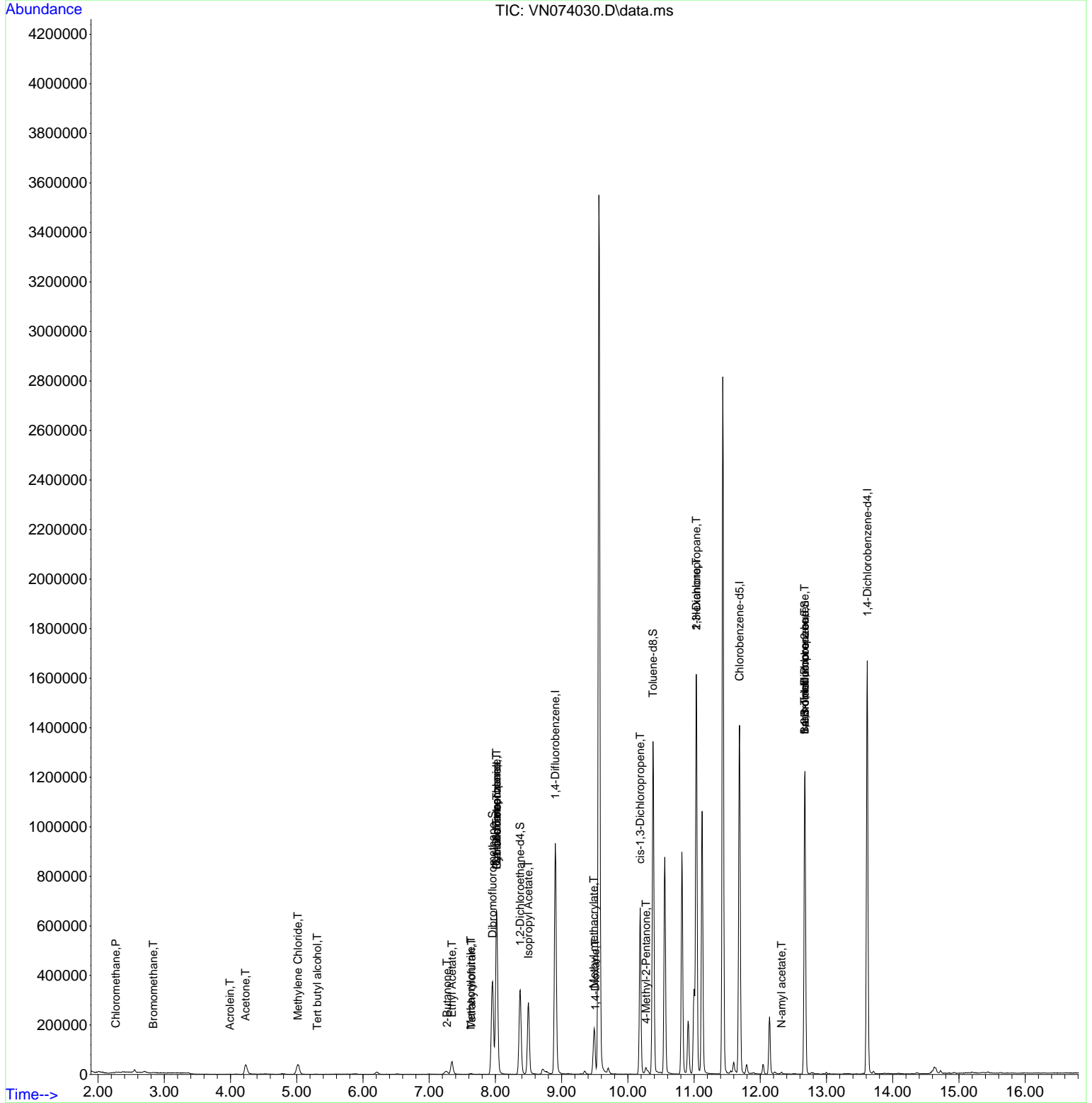
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Internal Standards						
1) Pentafluorobenzene	8.022	168	555290	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	864817	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	878087	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	478675	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	287978	53.245	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	106.500%	
35) Dibromofluoromethane	7.957	113	277991	54.354	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	108.700%	
50) Toluene-d8	10.381	98	946851	47.802	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	95.600%	
62) 4-Bromofluorobenzene	12.674	95	412187	62.701	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	=	125.400%#	
Target Compounds						
						Qvalue
3) Chloromethane	2.269	50	1057	0.216	ug/l #	86
5) Bromomethane	2.834	94	1432	0.365	ug/l	96
11) Tert butyl alcohol	5.310	59	626	0.517	ug/l #	72
13) Acrolein	3.993	56	217	0.256	ug/l #	1
16) Acetone	4.228	43	74987	29.387	ug/l	95
18) Methyl Acetate	4.781	43	5503	Below Cal	#	86
20) Methylene Chloride	5.016	84	35433	6.581	ug/l	92
25) 2-Butanone	7.269	43	13695	3.385	ug/l #	83
29) Tetrahydrofuran	7.640	42	2791	1.075	ug/l #	43
31) Cyclohexane	8.022	56	9159	1.215	ug/l #	1
36) 1,1-Dichloropropene	8.016	75	36290	5.109	ug/l #	49
37) Ethyl Acetate	7.345	43	77876	9.049	ug/l	98
38) Carbon Tetrachloride	8.016	117	49468	6.092	ug/l #	17
41) Methacrylonitrile	7.628	41	1530	0.393	ug/l #	32
43) Isopropyl Acetate	8.498	43	322240	26.283	ug/l #	93
48) Methyl methacrylate	9.486	41	10067	1.919	ug/l #	41
49) 1,4-Dioxane	9.510	88	307	1.968	ug/l #	25
51) 4-Methyl-2-Pentanone	10.275	43	26495	3.196	ug/l #	76
54) cis-1,3-Dichloropropene	10.186	75	126913	14.155	ug/l #	59
57) 1,3-Dichloropropane	11.033	76	17761	1.827	ug/l #	42
59) 2-Hexanone	11.033	43	211140	33.097	ug/l #	50
71) Bromoform	12.669	173	1949	0.309	ug/l #	28
74) N-amyl acetate	12.322	43	3893	0.295	ug/l #	43
76) 1,2,3-Trichloropropane	12.669	75	203683	20.472	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.669	75	203683	58.227	ug/l #	10

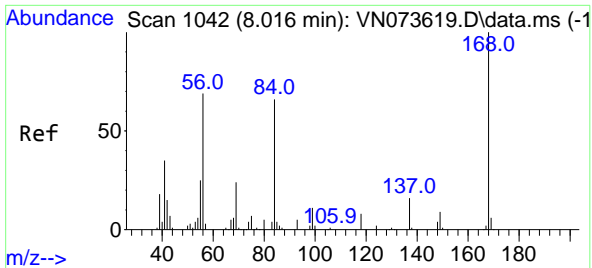
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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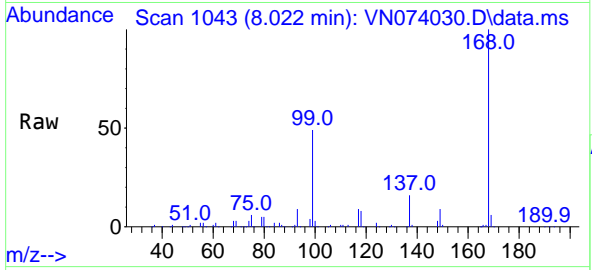
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 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N081522W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 16 00:45:21 2022  
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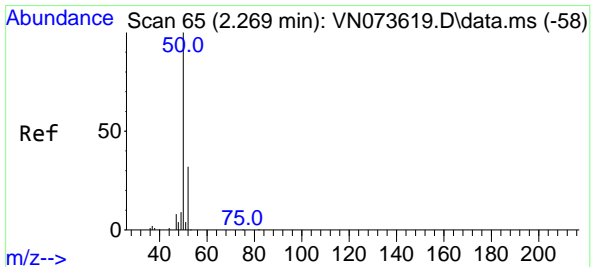
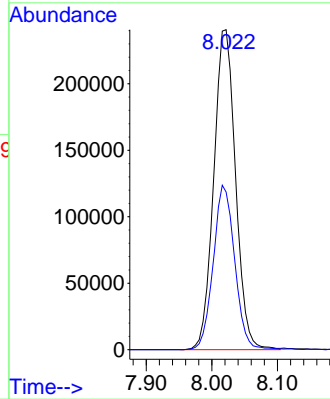
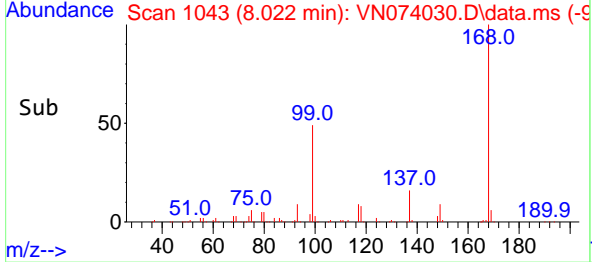


#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.022 min Scan# 10  
 Delta R.T. 0.006 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

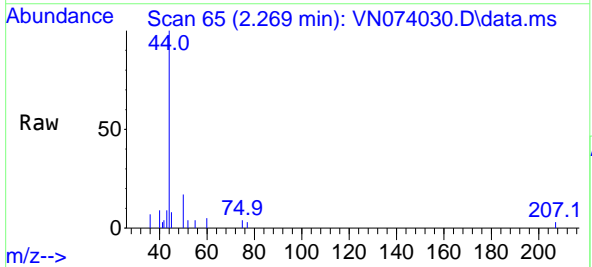
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB147119ZHE#01



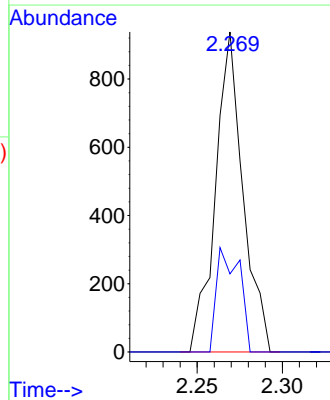
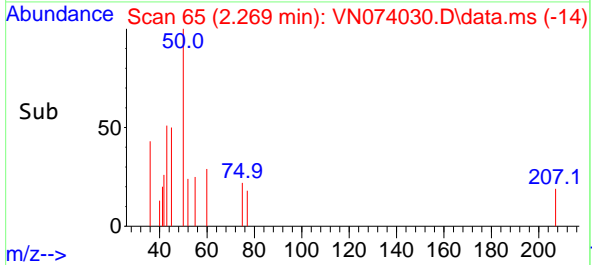
Tgt Ion:168 Resp: 555290  
 Ion Ratio Lower Upper  
 168 100  
 99 49.3 42.3 63.5

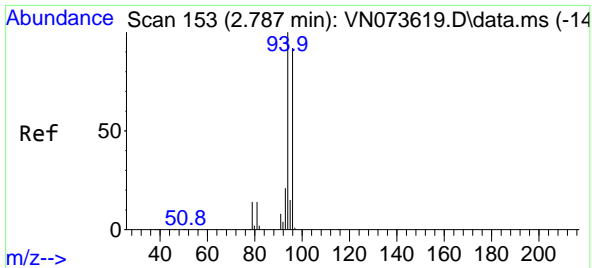


#3  
 Chloromethane  
 Concen: 0.216 ug/l  
 RT: 2.269 min Scan# 65  
 Delta R.T. 0.000 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38



Tgt Ion: 50 Resp: 1057  
 Ion Ratio Lower Upper  
 50 100  
 52 24.4 25.7 38.5#

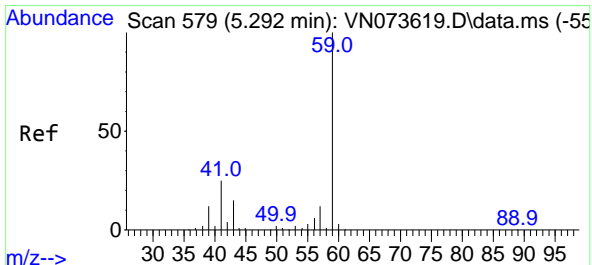
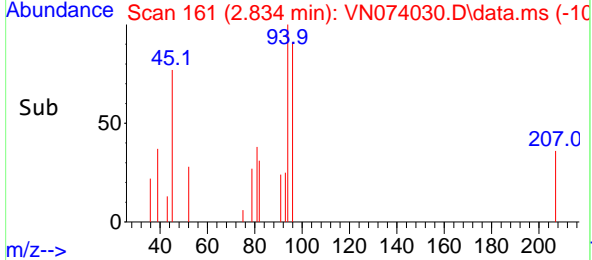
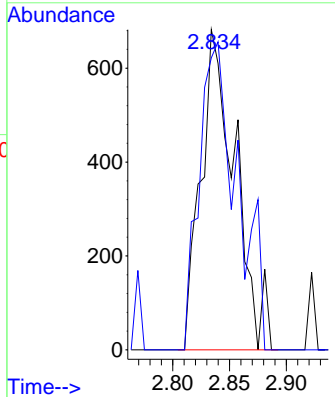
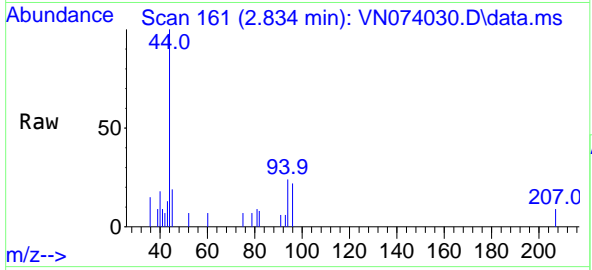




#5  
 Bromomethane  
 Concen: 0.365 ug/l  
 RT: 2.834 min Scan# 11  
 Delta R.T. 0.047 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

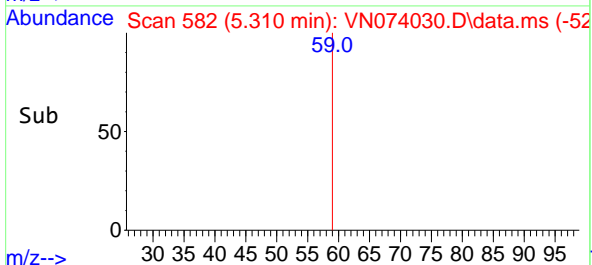
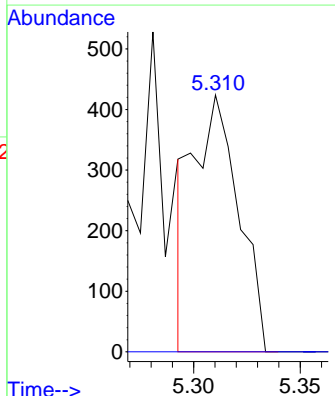
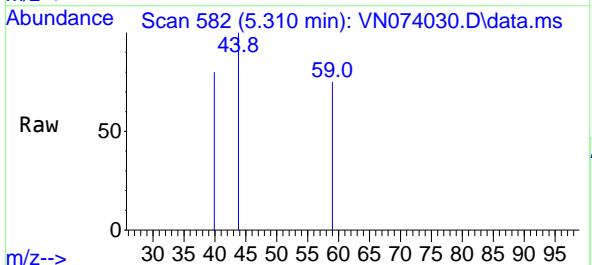
Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01

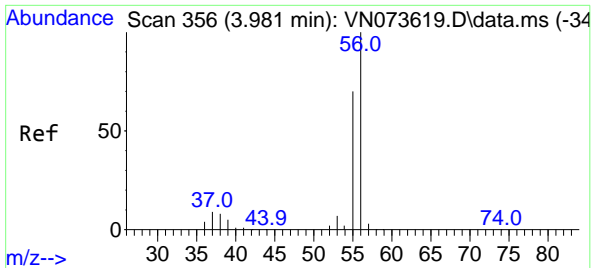
Tgt Ion: 94 Resp: 1432  
 Ion Ratio Lower Upper  
 94 100  
 96 91.2 76.0 114.0



#11  
 Tert butyl alcohol  
 Concen: 0.517 ug/l  
 RT: 5.310 min Scan# 582  
 Delta R.T. 0.018 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

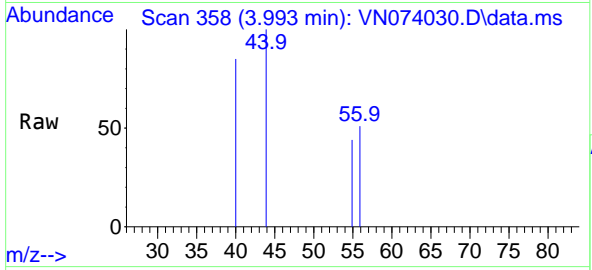
Tgt Ion: 59 Resp: 626  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.3 12.5#



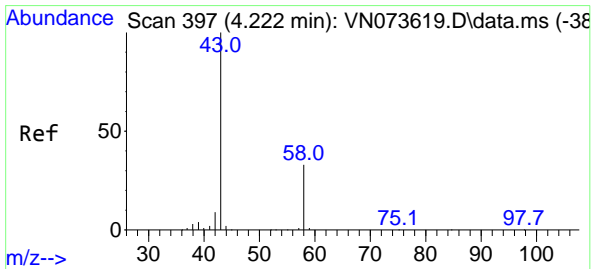
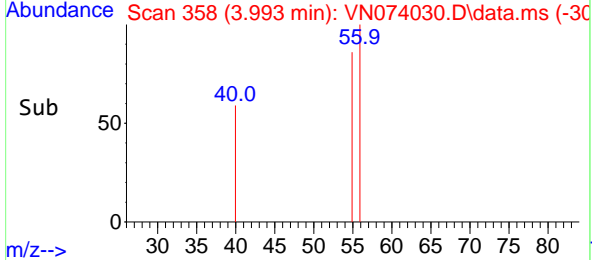
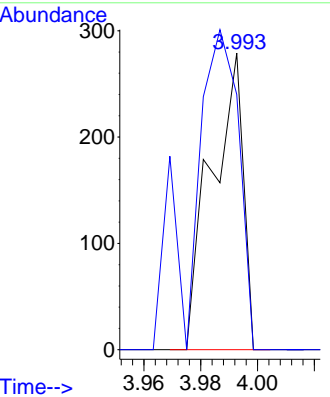


#13  
 Acrolein  
 Concen: 0.256 ug/l  
 RT: 3.993 min Scan# 311  
 Delta R.T. 0.012 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01

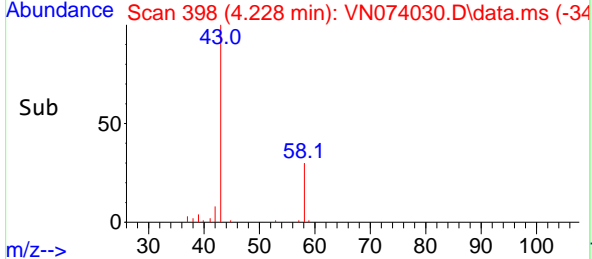
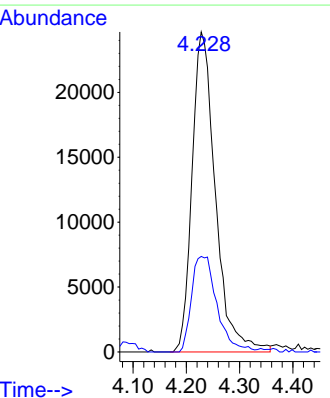
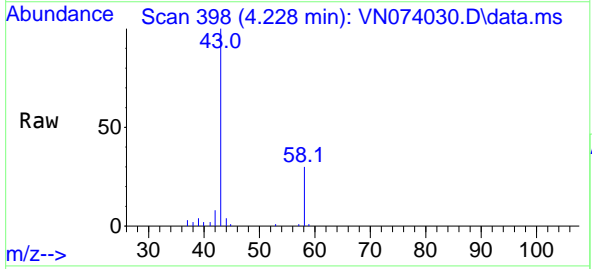


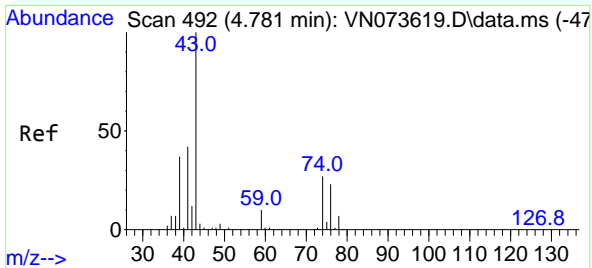
Tgt Ion: 56 Resp: 217  
 Ion Ratio Lower Upper  
 56 100  
 55 156.2 54.8 82.2#



#16  
 Acetone  
 Concen: 29.387 ug/l  
 RT: 4.228 min Scan# 398  
 Delta R.T. 0.006 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Tgt Ion: 43 Resp: 74987  
 Ion Ratio Lower Upper  
 43 100  
 58 29.8 26.0 39.0

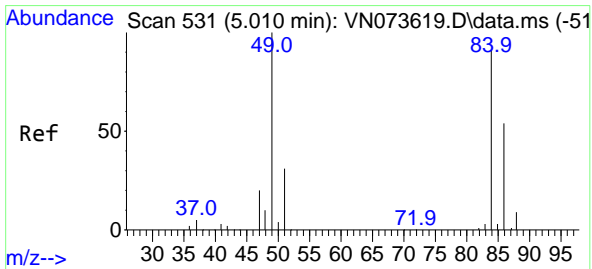
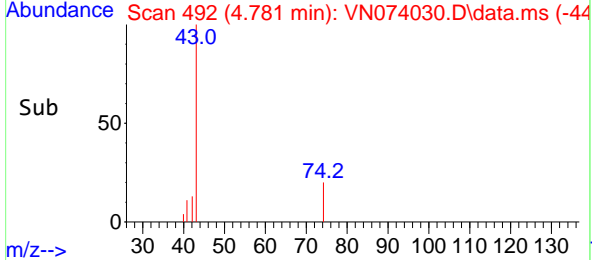
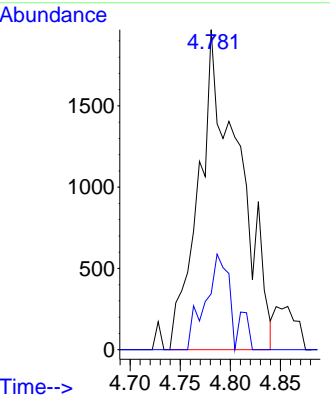
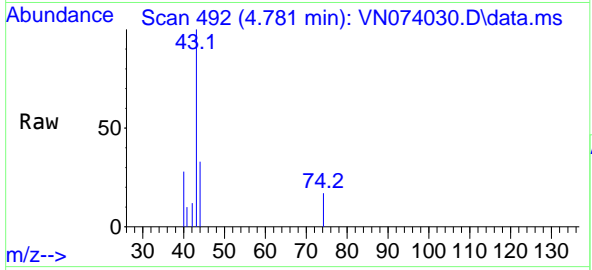




#18  
 Methyl Acetate  
 Concen: Below Cal  
 RT: 4.781 min Scan# 491  
 Delta R.T. -0.000 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

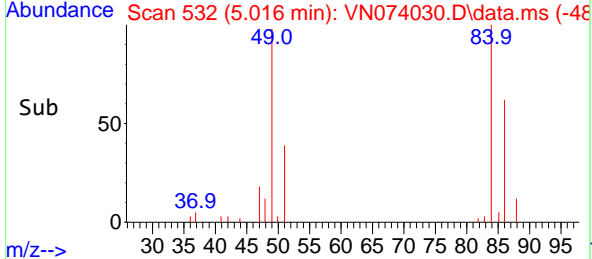
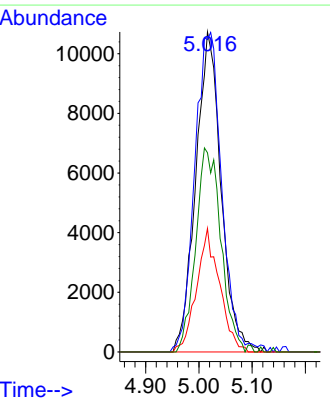
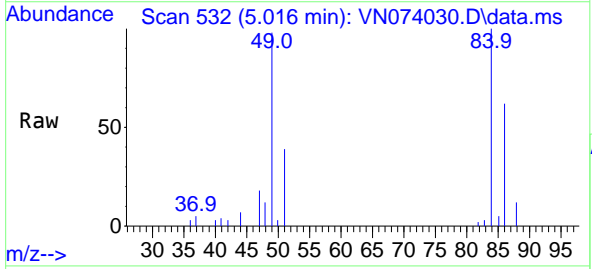
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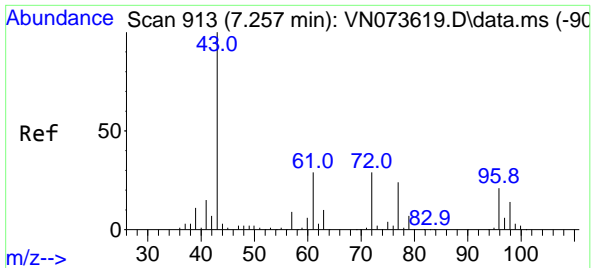
Tgt Ion: 43 Resp: 5503  
 Ion Ratio Lower Upper  
 43 100  
 74 19.9 21.6 32.4#



#20  
 Methylene Chloride  
 Concen: 6.581 ug/l  
 RT: 5.016 min Scan# 532  
 Delta R.T. 0.006 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Tgt Ion: 84 Resp: 35433  
 Ion Ratio Lower Upper  
 84 100  
 49 97.7 88.3 132.5  
 51 38.6 28.2 42.2  
 86 62.3 50.6 76.0

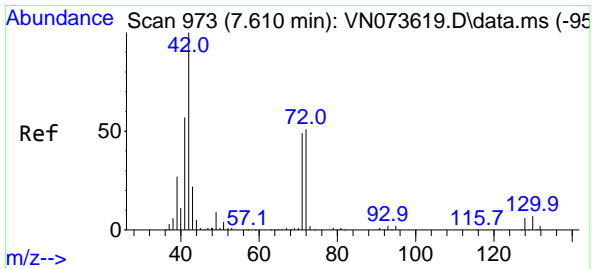
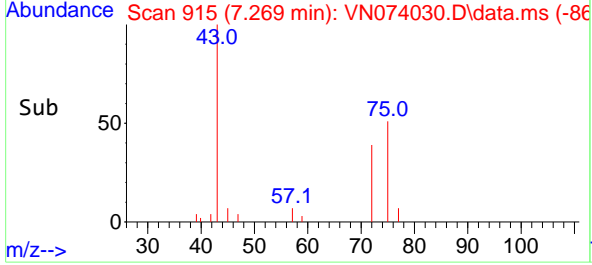
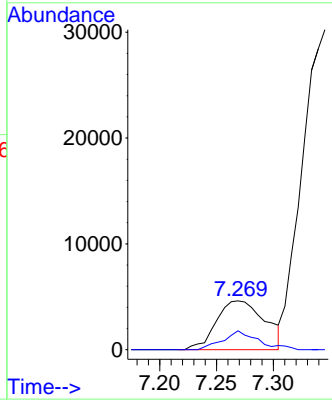
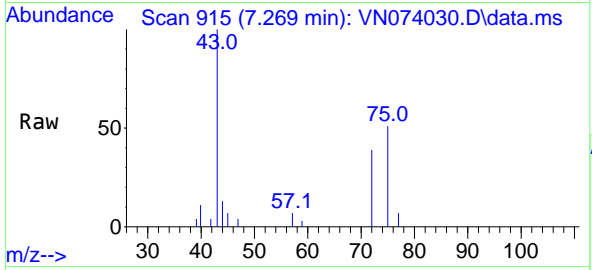




#25  
 2-Butanone  
 Concen: 3.385 ug/l  
 RT: 7.269 min Scan# 915  
 Delta R.T. 0.012 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

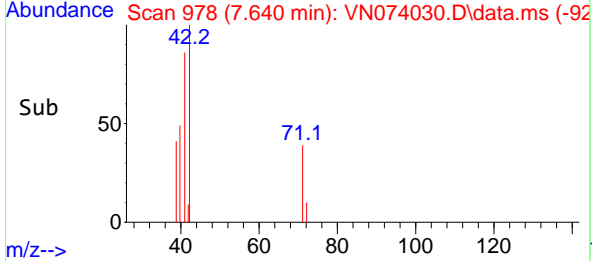
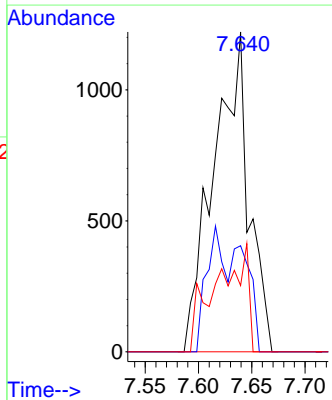
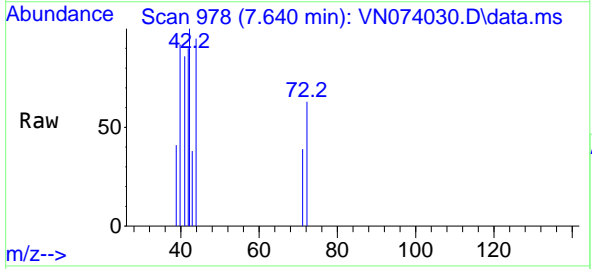
Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01

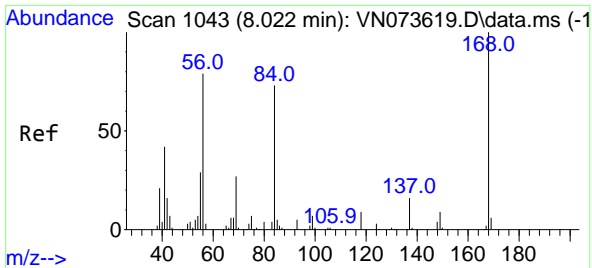
Tgt Ion: 43 Resp: 13695  
 Ion Ratio Lower Upper  
 43 100  
 72 38.7 23.7 35.5#



#29  
 Tetrahydrofuran  
 Concen: 1.075 ug/l  
 RT: 7.640 min Scan# 978  
 Delta R.T. 0.029 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

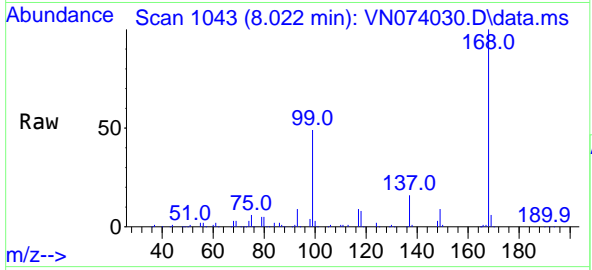
Tgt Ion: 42 Resp: 2791  
 Ion Ratio Lower Upper  
 42 100  
 72 17.8 39.7 59.5#  
 71 0.0 36.6 55.0#



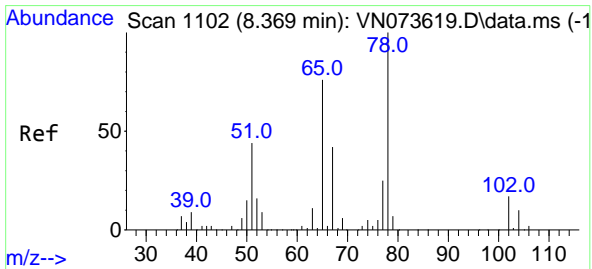
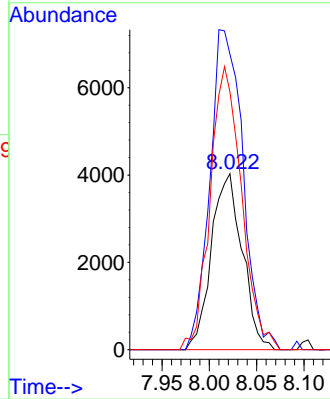
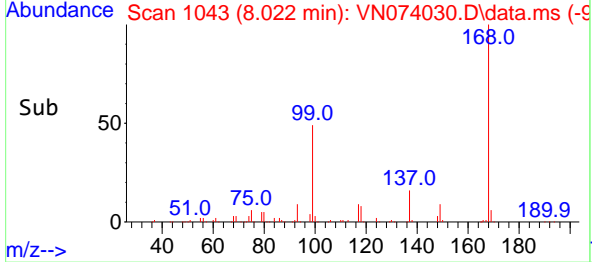


#31  
 Cyclohexane  
 Concen: 1.215 ug/l  
 RT: 8.022 min Scan# 1043  
 Delta R.T. -0.000 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

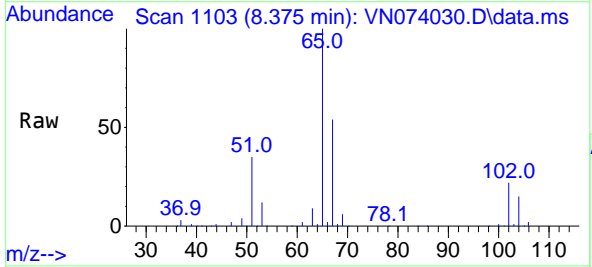
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 ClientSampleId : PB147119ZHE#01



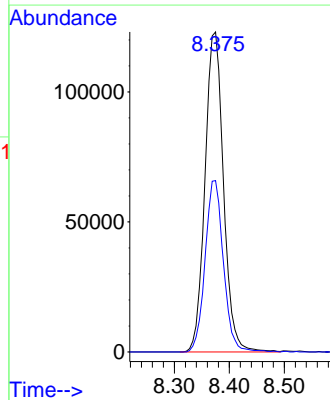
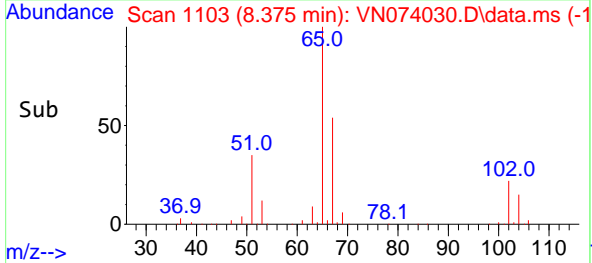
Tgt Ion: 56 Resp: 9159  
 Ion Ratio Lower Upper  
 56 100  
 69 167.8 27.8 41.8#  
 84 146.4 76.9 115.3#



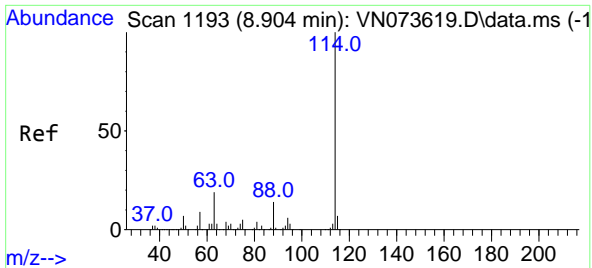
#33  
 1,2-Dichloroethane-d4  
 Concen: 53.245 ug/l  
 RT: 8.375 min Scan# 1103  
 Delta R.T. 0.006 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38



Tgt Ion: 65 Resp: 287978  
 Ion Ratio Lower Upper  
 65 100  
 67 53.0 0.0 104.8





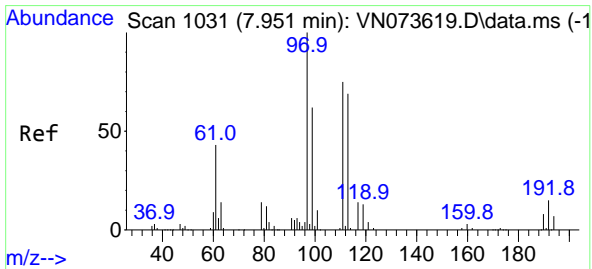
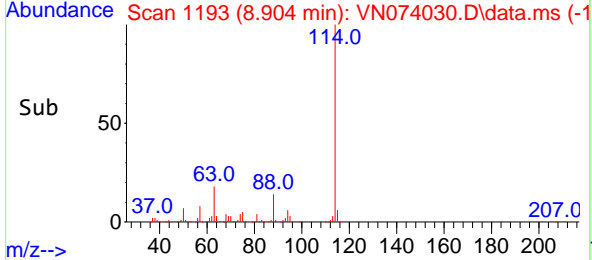
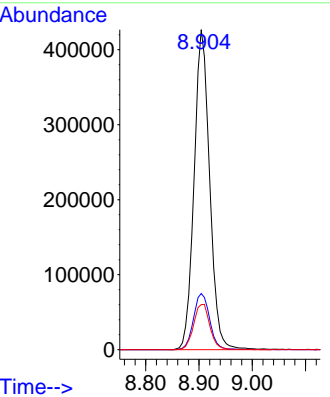
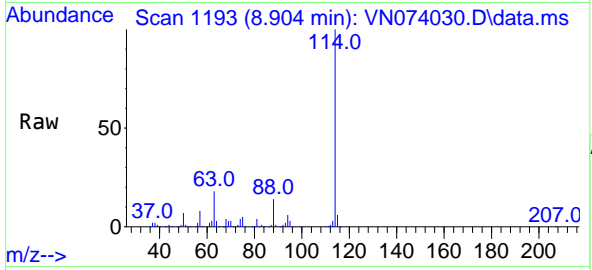


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.904 min Scan# 1119  
 Delta R.T. 0.000 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01

Tgt Ion:114 Resp: 864817

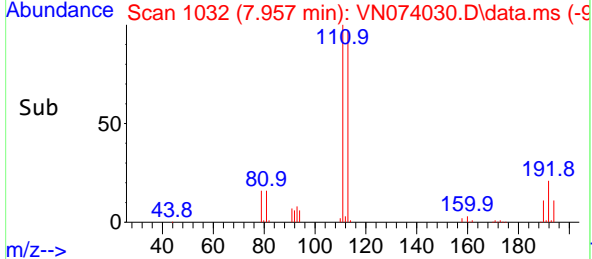
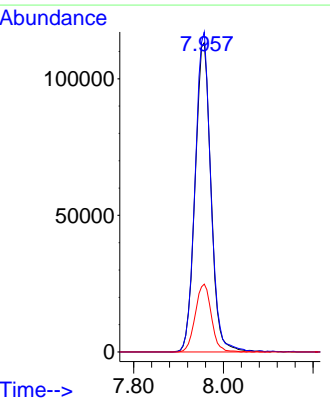
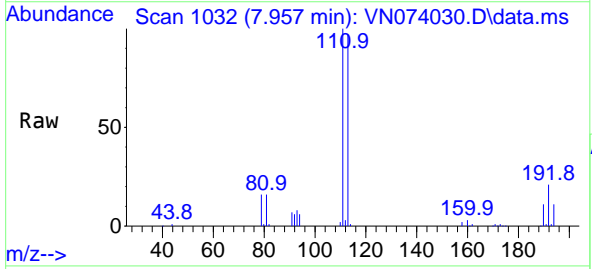
Ion	Ratio	Lower	Upper
114	100		
63	17.6	0.0	40.0
88	14.1	0.0	32.6

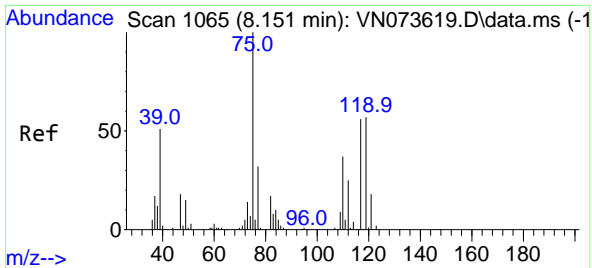


#35  
 Dibromofluoromethane  
 Concen: 54.354 ug/l  
 RT: 7.957 min Scan# 1032  
 Delta R.T. 0.006 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Tgt Ion:113 Resp: 277991

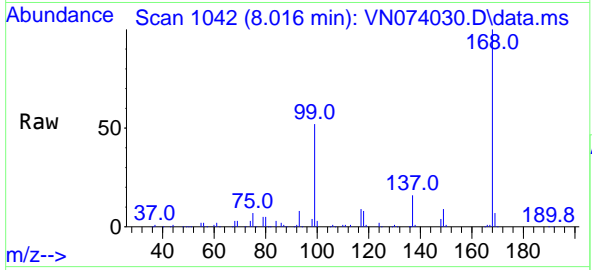
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.0
192	22.2	17.0	25.6



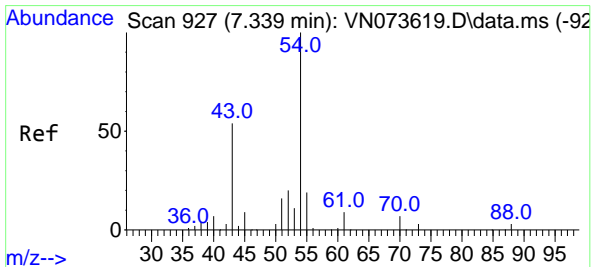
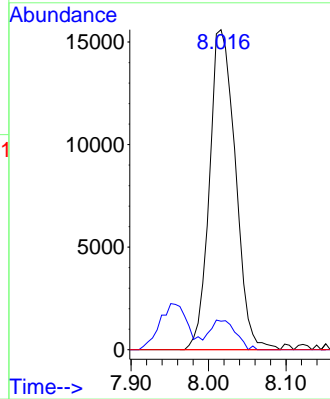
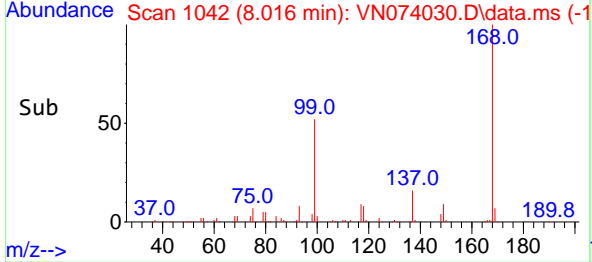


#36  
 1,1-Dichloropropene  
 Concen: 5.109 ug/l  
 RT: 8.016 min Scan# 1065  
 Delta R.T. -0.135 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

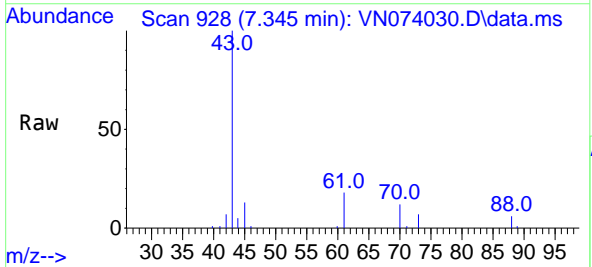
Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01



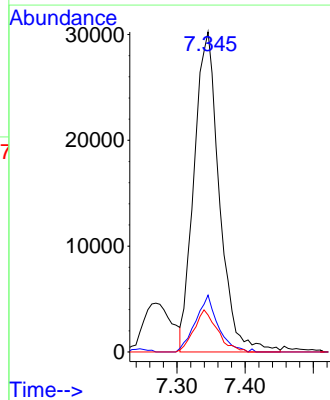
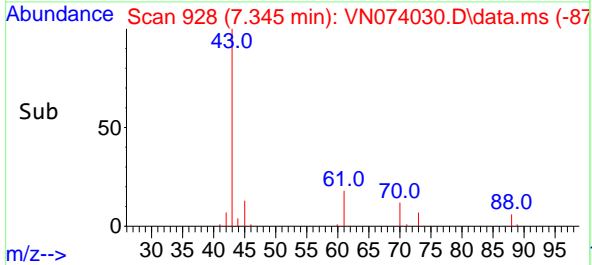
Tgt Ion: 75 Resp: 36290  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 18.3 54.8#  
 77 0.0 25.1 37.7#

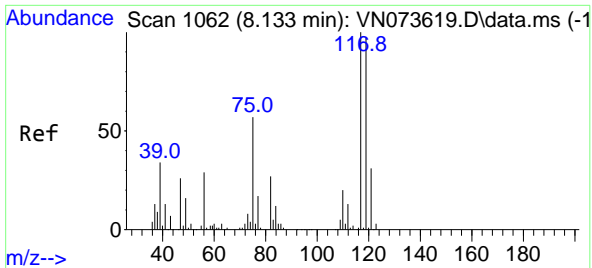


#37  
 Ethyl Acetate  
 Concen: 9.049 ug/l  
 RT: 7.345 min Scan# 928  
 Delta R.T. 0.006 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38



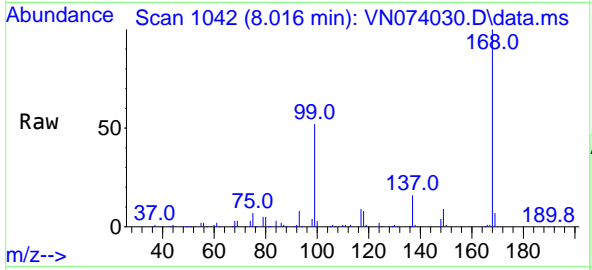
Tgt Ion: 43 Resp: 77876  
 Ion Ratio Lower Upper  
 43 100  
 61 15.7 11.8 17.6  
 70 12.1 9.3 13.9





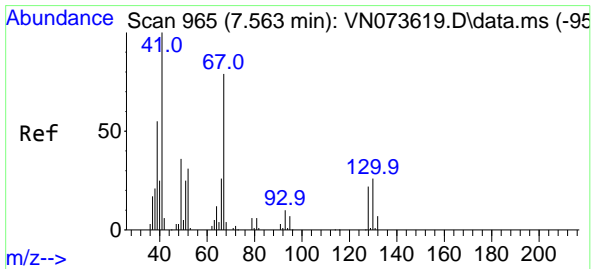
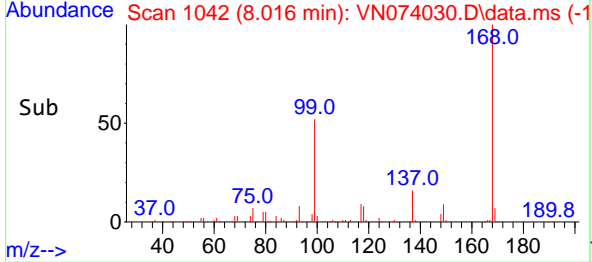
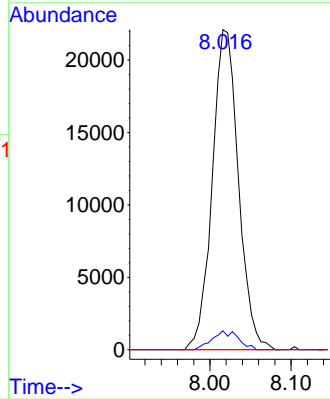
#38  
 Carbon Tetrachloride  
 Concen: 6.092 ug/l  
 RT: 8.016 min Scan# 1042  
 Delta R.T. -0.117 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01



Tgt Ion: 117 Resp: 49468

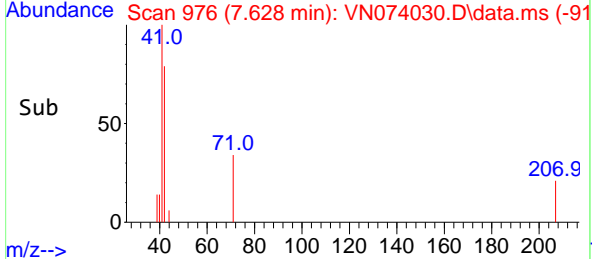
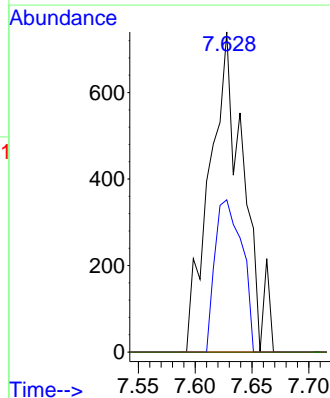
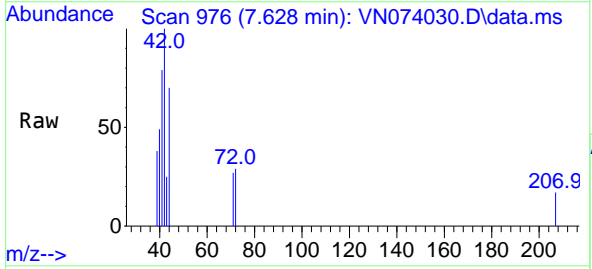
Ion	Ratio	Lower	Upper
117	100		
119	5.9	75.8	113.8#
121	0.0	24.6	37.0#

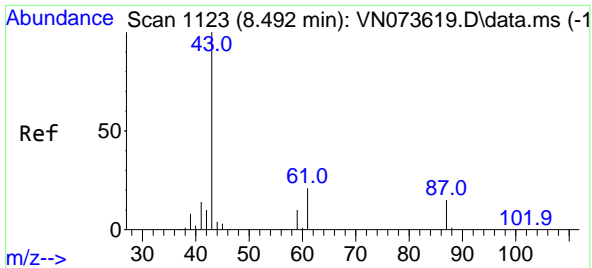


#41  
 Methacrylonitrile  
 Concen: 0.393 ug/l  
 RT: 7.628 min Scan# 976  
 Delta R.T. 0.065 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Tgt Ion: 41 Resp: 1530

Ion	Ratio	Lower	Upper
41	100		
39	38.2	48.6	73.0#
67	0.0	73.4	110.2#
52	0.0	27.7	41.5#



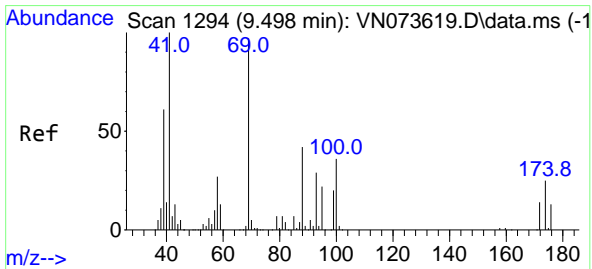
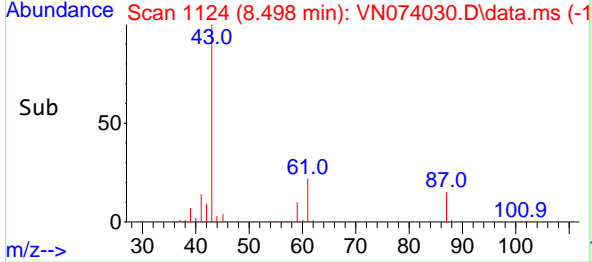
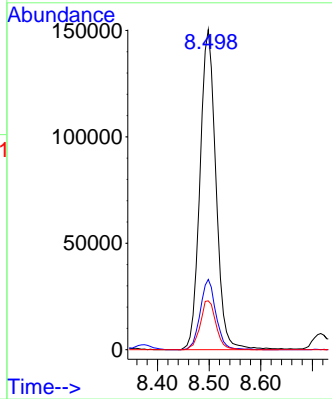
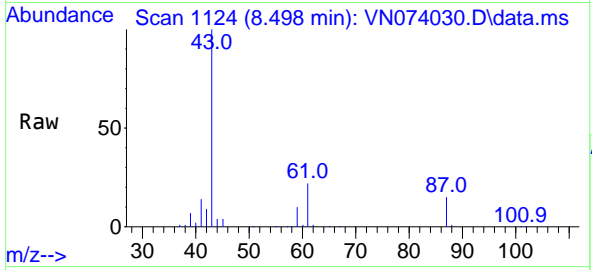


#43  
 Isopropyl Acetate  
 Concen: 26.283 ug/l  
 RT: 8.498 min Scan# 1123  
 Delta R.T. 0.006 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01

Tgt Ion: 43 Resp: 322240

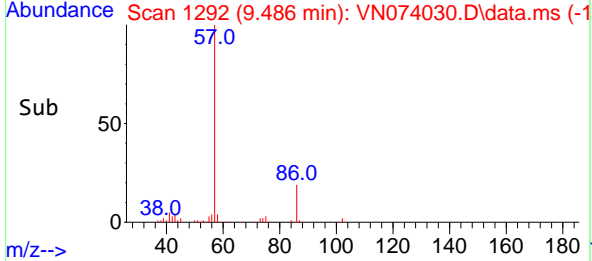
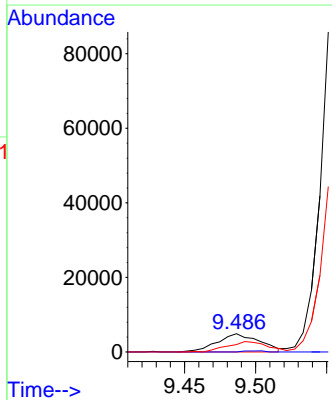
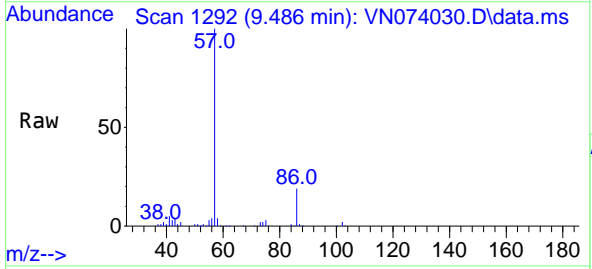
Ion	Ratio	Lower	Upper
43	100		
61	21.6	21.9	32.9#
87	15.1	12.0	18.0

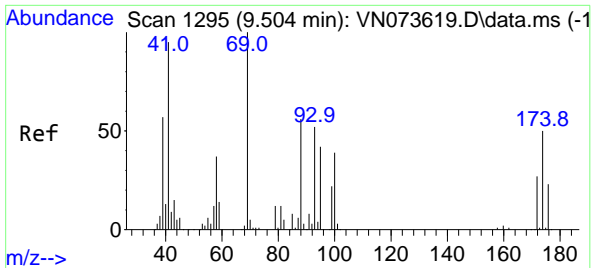


#48  
 Methyl methacrylate  
 Concen: 1.919 ug/l  
 RT: 9.486 min Scan# 1292  
 Delta R.T. -0.012 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Tgt Ion: 41 Resp: 10067

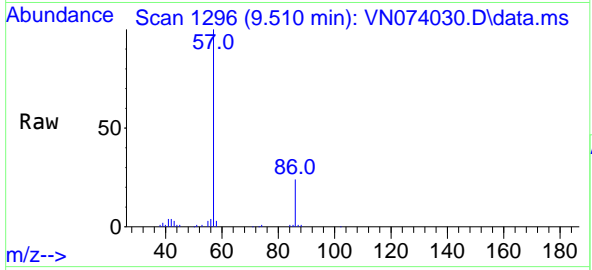
Ion	Ratio	Lower	Upper
41	100		
69	2.9	74.7	112.1#
39	55.0	45.6	68.4



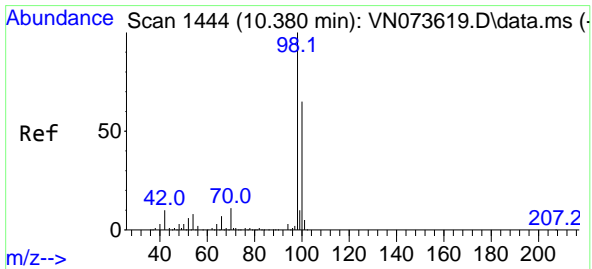
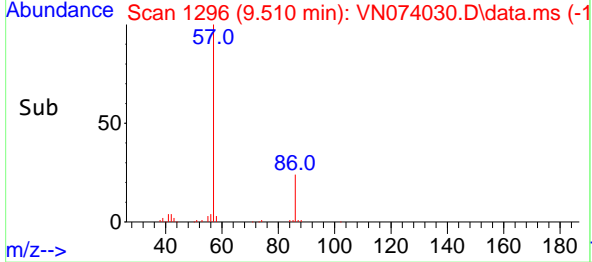
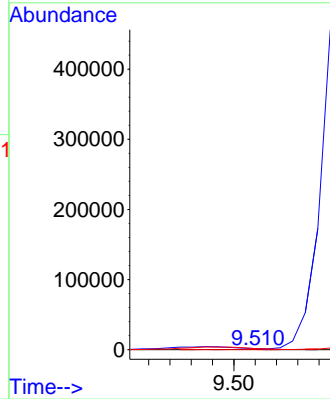


#49  
 1,4-Dioxane  
 Concen: 1.968 ug/l  
 RT: 9.510 min Scan# 11  
 Delta R.T. 0.006 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01

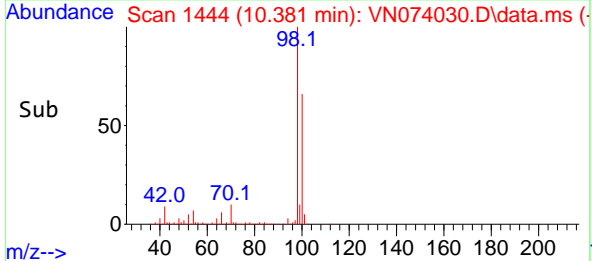
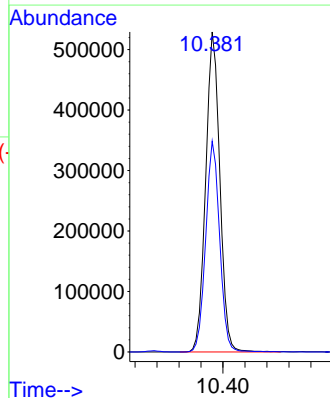
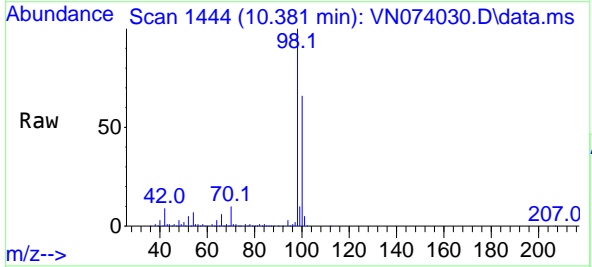


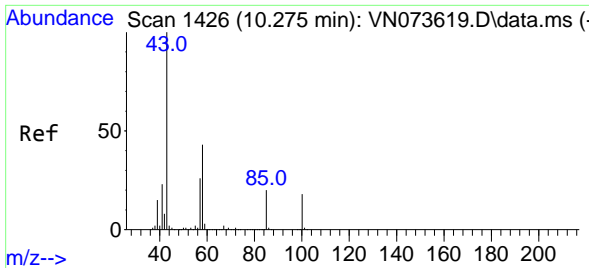
Tgt Ion: 88 Resp: 307  
 Ion Ratio Lower Upper  
 88 100  
 43 0.0 20.2 30.4#  
 58 0.0 54.2 81.4#



#50  
 Toluene-d8  
 Concen: 47.802 ug/l  
 RT: 10.381 min Scan# 1444  
 Delta R.T. 0.000 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

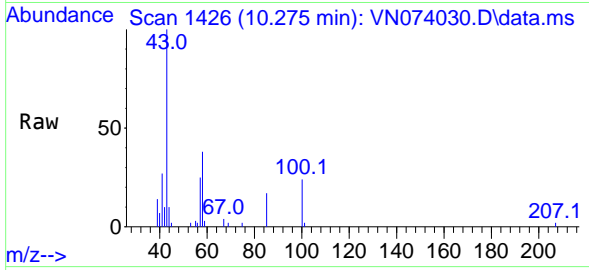
Tgt Ion: 98 Resp: 946851  
 Ion Ratio Lower Upper  
 98 100  
 100 64.9 52.6 78.8



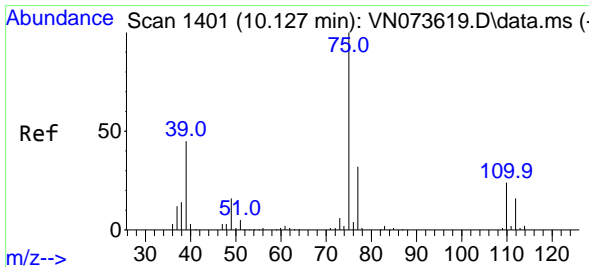
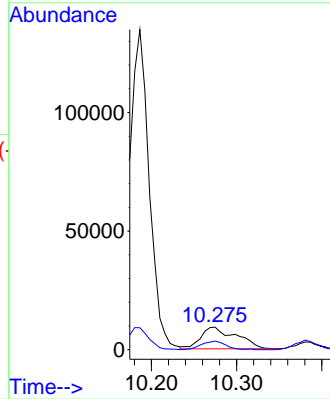
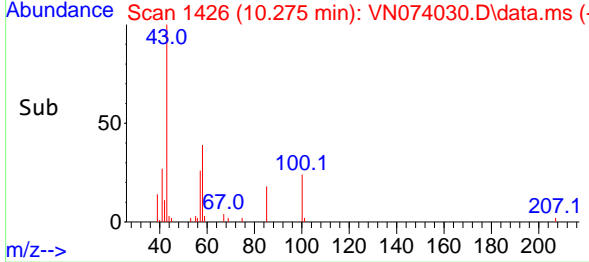


#51  
 4-Methyl-2-Pentanone  
 Concen: 3.196 ug/l  
 RT: 10.275 min Scan# 1411  
 Delta R.T. -0.000 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

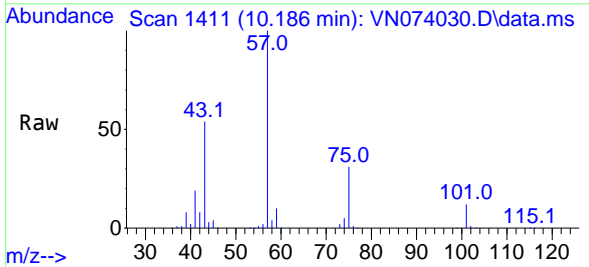
Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01



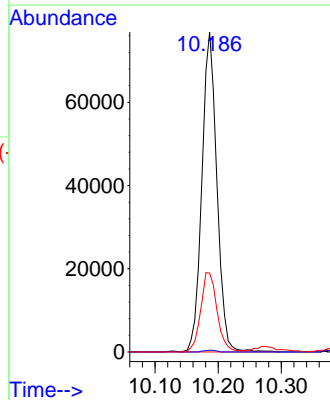
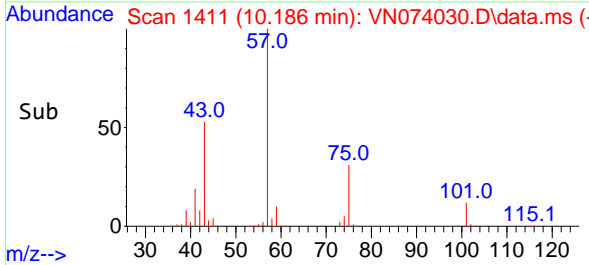
Tgt Ion: 43 Resp: 26495  
 Ion Ratio Lower Upper  
 43 100  
 58 27.1 34.1 51.1#

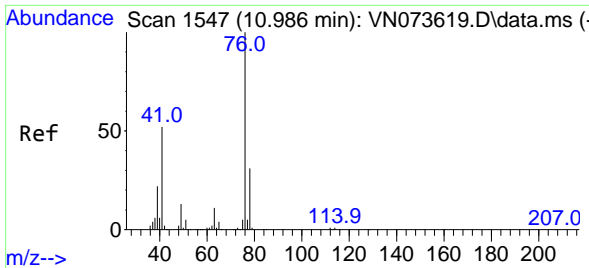


#54  
 cis-1,3-Dichloropropene  
 Concen: 14.155 ug/l  
 RT: 10.186 min Scan# 1411  
 Delta R.T. 0.059 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38



Tgt Ion: 75 Resp: 126913  
 Ion Ratio Lower Upper  
 75 100  
 77 0.6 25.2 37.8#  
 39 24.7 35.7 53.5#

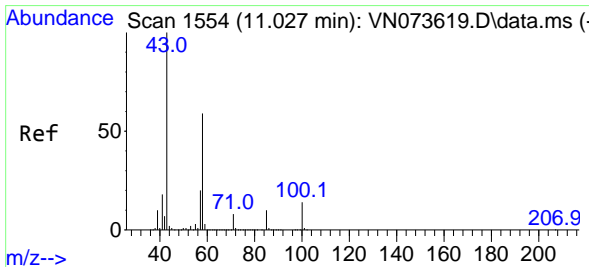
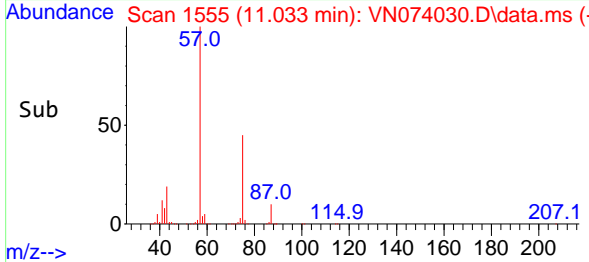
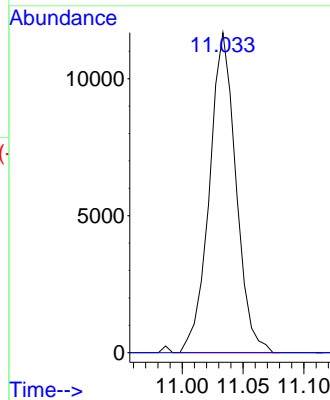
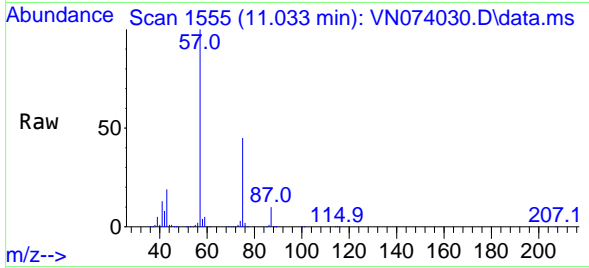




#57  
 1,3-Dichloropropane  
 Concen: 1.827 ug/l  
 RT: 11.033 min Scan# 1555  
 Delta R.T. 0.047 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

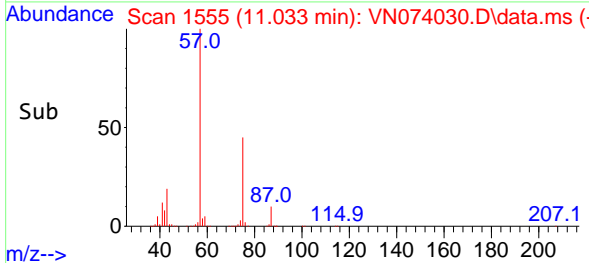
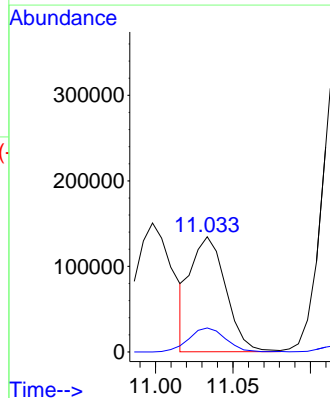
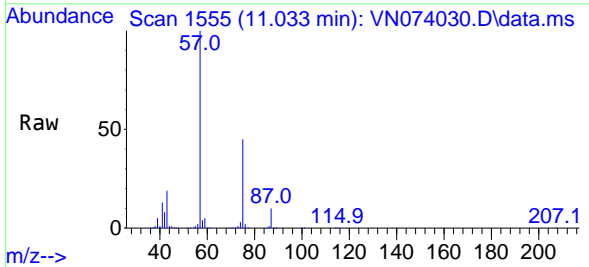
Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01

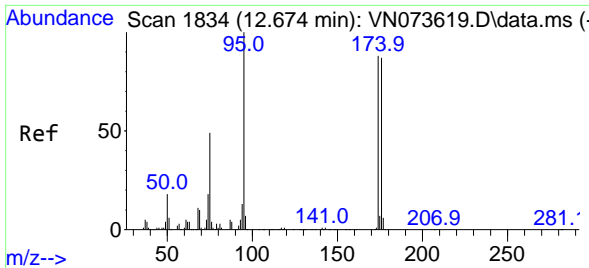
Tgt Ion: 76 Resp: 17761  
 Ion Ratio Lower Upper  
 76 100  
 78 0.0 26.2 39.2#



#59  
 2-Hexanone  
 Concen: 33.097 ug/l  
 RT: 11.033 min Scan# 1555  
 Delta R.T. 0.006 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Tgt Ion: 43 Resp: 211140  
 Ion Ratio Lower Upper  
 43 100  
 58 22.1 29.7 89.1#



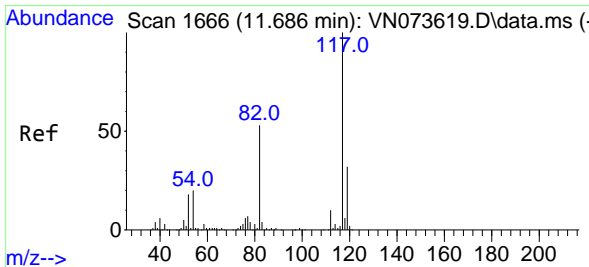
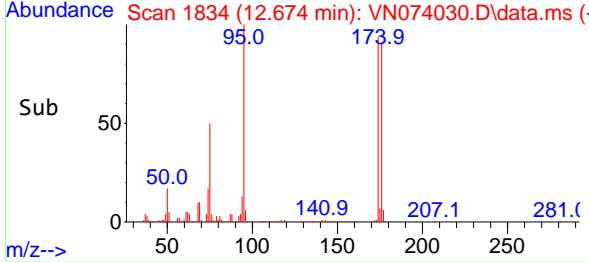
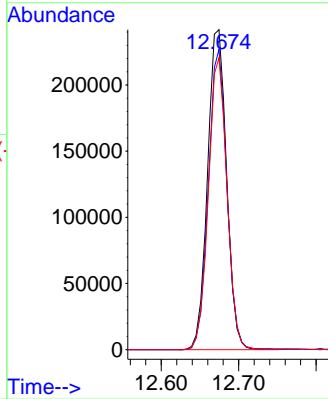
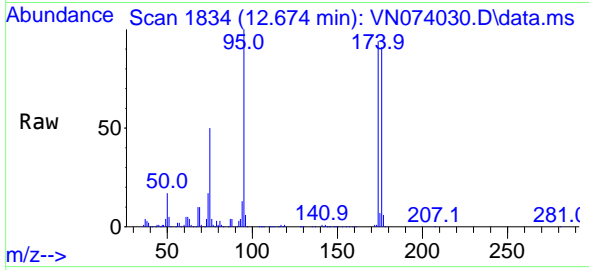


#62  
 4-Bromofluorobenzene  
 Concen: 62.701 ug/l  
 RT: 12.674 min Scan# 1834  
 Delta R.T. 0.000 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01

Tgt Ion: 95 Resp: 412187

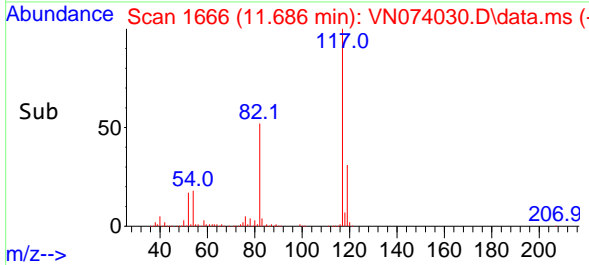
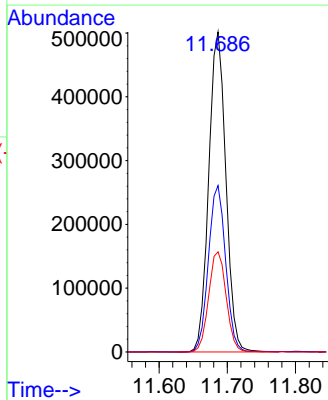
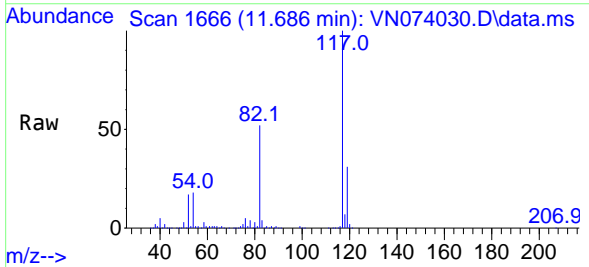
Ion	Ratio	Lower	Upper
95	100		
174	91.4	0.0	167.6
176	88.9	0.0	163.4



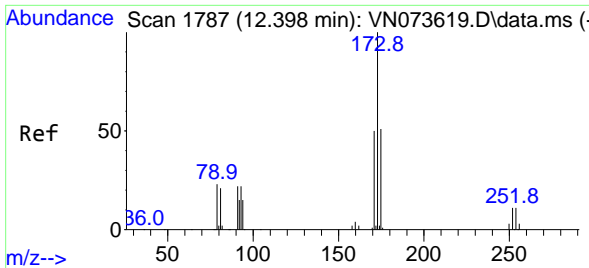
#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.686 min Scan# 1666  
 Delta R.T. 0.000 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Tgt Ion: 117 Resp: 878087

Ion	Ratio	Lower	Upper
117	100		
82	52.0	44.2	66.2
119	31.3	25.4	38.0

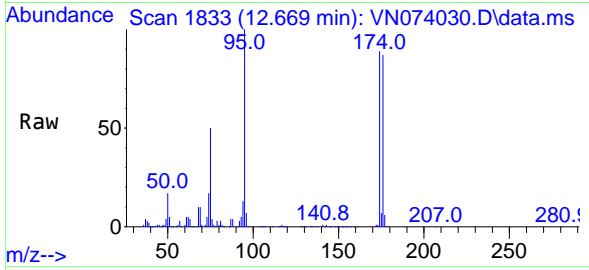




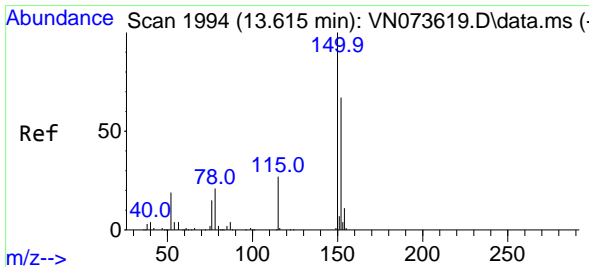
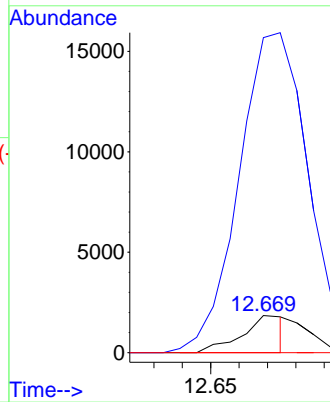
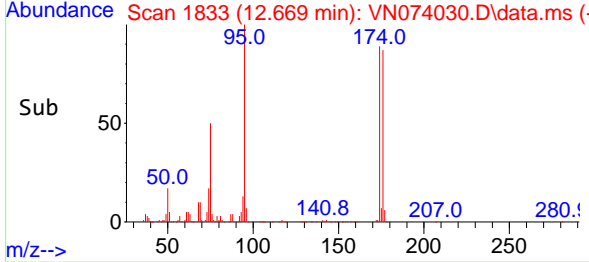


#71  
 Bromoform  
 Concen: 0.309 ug/l  
 RT: 12.669 min Scan# 1833  
 Delta R.T. 0.271 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

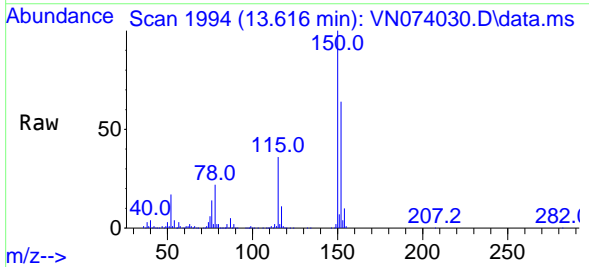
Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01



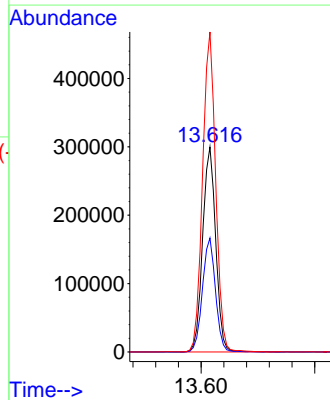
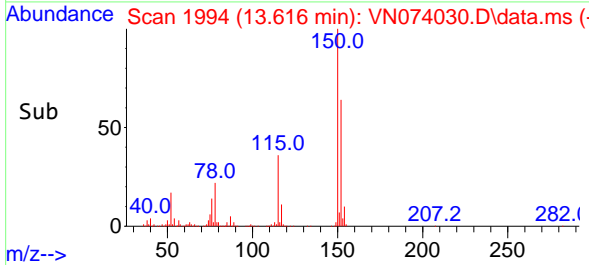
Tgt Ion:173 Resp: 1949  
 Ion Ratio Lower Upper  
 173 100  
 175 0.0 24.6 73.6#  
 254 0.0 0.1 0.1#

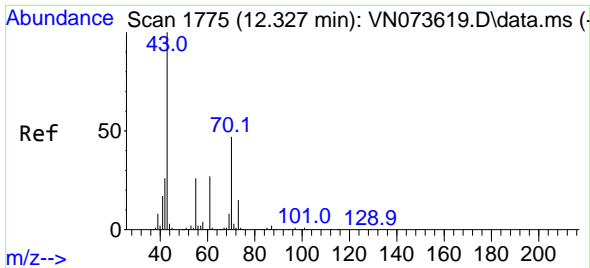


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.616 min Scan# 1994  
 Delta R.T. 0.001 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38



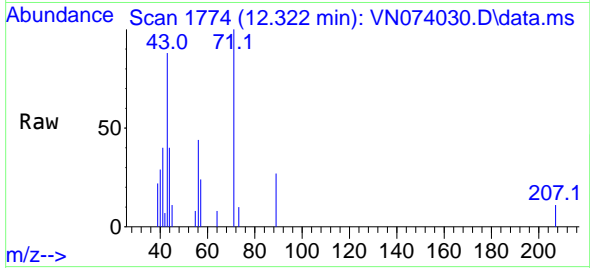
Tgt Ion:152 Resp: 478675  
 Ion Ratio Lower Upper  
 152 100  
 115 55.5 28.9 86.7  
 150 156.2 0.0 356.2





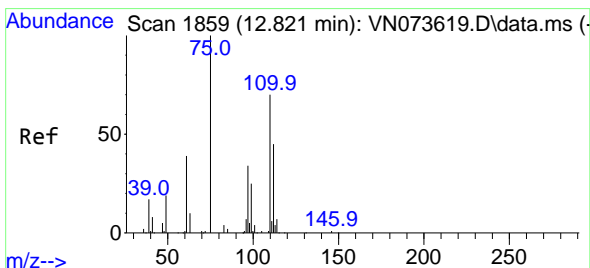
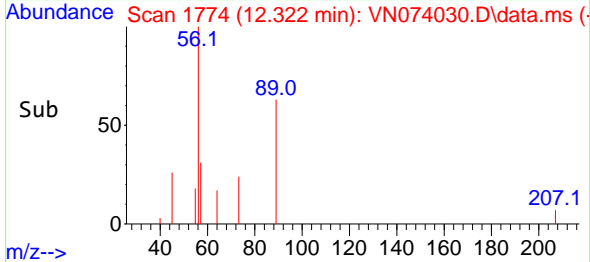
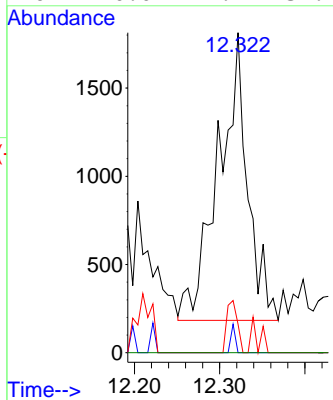
#74  
 N-amy1 acetate  
 Concen: 0.295 ug/l  
 RT: 12.322 min Scan# 11  
 Delta R.T. -0.005 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 PB147119ZHE#01



Tgt Ion: 43 Resp: 3893

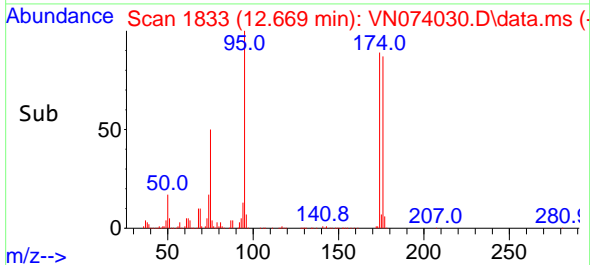
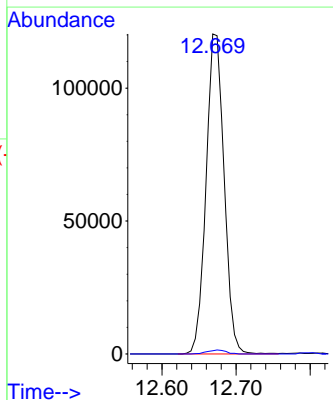
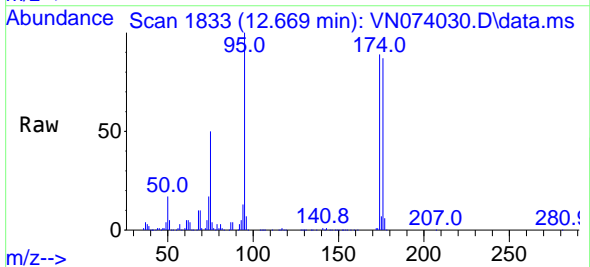
Ion	Ratio	Lower	Upper
43	100		
70	1.5	39.0	58.4#
55	6.6	21.1	31.7#
61	0.0	21.1	31.7#

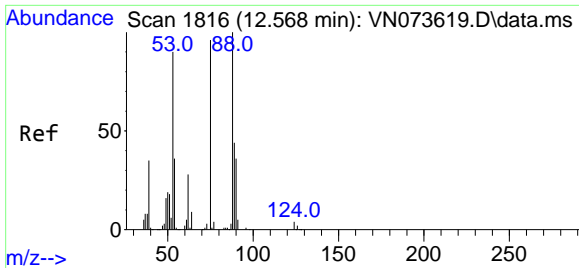


#76  
 1,2,3-Trichloropropane  
 Concen: 20.472 ug/l  
 RT: 12.669 min Scan# 1833  
 Delta R.T. -0.152 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Tgt Ion: 75 Resp: 203683

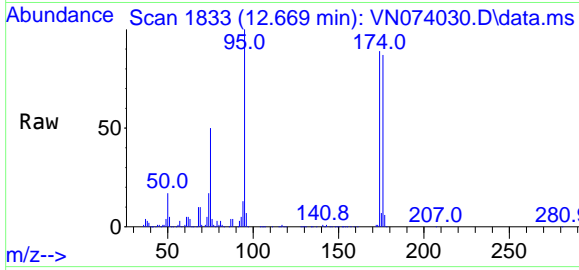
Ion	Ratio	Lower	Upper
75	100		
77	1.3	98.5	295.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 58.227 ug/l  
 RT: 12.669 min Scan# 1816  
 Delta R.T. 0.101 min  
 Lab File: VN074030.D  
 Acq: 19 Aug 2022 16:38

Instrument : MSVOA\_N  
 ClientSampleId : PB147119ZHE#01



Tgt Ion: 75 Resp: 203683

Ion	Ratio	Lower	Upper
75	100		
53	0.1	78.0	117.0#
89	0.0	37.2	55.8#

