

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102722\
 Data File : VN075041.D
 Acq On : 27 Oct 2022 15:19
 Operator : JC\MD
 Sample : N5273-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LIDEN-GAS-PIPELINE

Quant Time: Oct 28 02:14:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102622W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 27 09:48:49 2022
 Response via : Initial Calibration

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

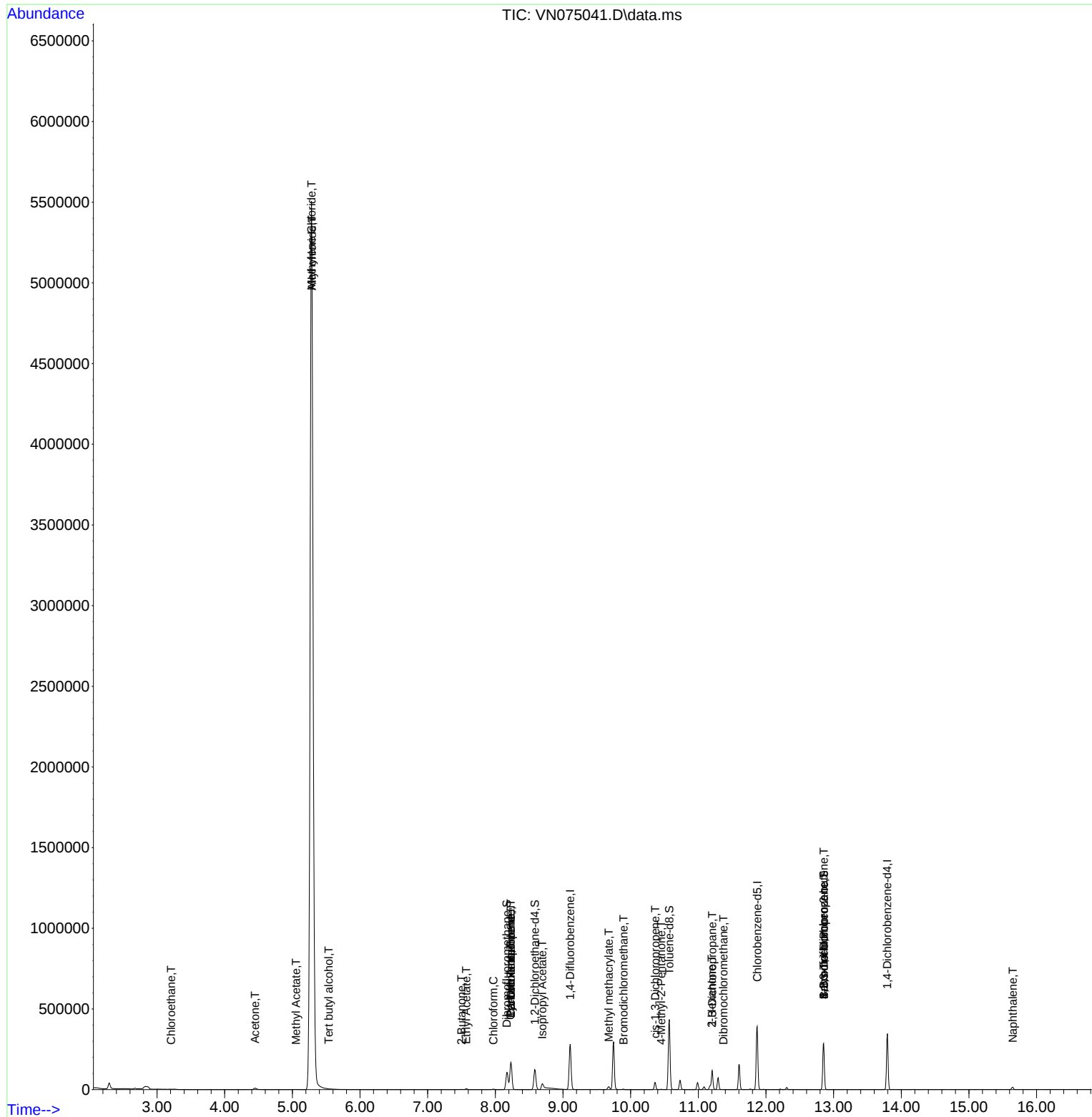
Internal Standards						
1) Pentafluorobenzene	8.230	168	120152	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	243451	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	222167	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	87652	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	100886	62.317	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 124.640%			
35) Dibromofluoromethane	8.171	113	76670	53.646	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 107.300%			
50) Toluene-d8	10.571	98	301803	54.430	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.860%			
62) 4-Bromofluorobenzene	12.853	95	96571	49.580	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 99.160%			
Target Compounds						Qvalue
6) Chloroethane	3.206	64	773	0.455	ug/l #	45
11) Tert butyl alcohol	5.536	59	143	0.379	ug/l #	72
14) Allyl chloride	5.289	41	94353	50.723	ug/l #	21
16) Acetone	4.447	43	17809	25.980	ug/l	96
18) Methyl Acetate	5.053	43	2528	1.129	ug/l #	88
20) Methylene Chloride	5.283	84	4326706	2830.887	ug/l	94
25) 2-Butanone	7.500	43	2263	2.099	ug/l	97
30) Chloroform	7.971	83	2882	1.022	ug/l	97
31) Cyclohexane	8.224	56	2763	1.148	ug/l #	40
36) 1,1-Dichloropropene	8.230	75	10858	4.907	ug/l #	49
37) Ethyl Acetate	7.571	43	7744	3.191	ug/l	97
38) Carbon Tetrachloride	8.230	117	13242	5.441	ug/l #	15
43) Isopropyl Acetate	8.694	43	60199	15.994	ug/l #	69
47) Bromodichloromethane	9.894	83	1492	0.613	ug/l #	91
48) Methyl methacrylate	9.676	41	1083	0.627	ug/l #	35
51) 4-Methyl-2-Pentanone	10.453	43	2530	1.042	ug/l #	60
54) cis-1,3-Dichloropropene	10.365	75	8608	3.161	ug/l #	64
57) 1,3-Dichloropropane	11.206	76	1327	0.444	ug/l #	42
59) 2-Hexanone	11.200	43	15162	8.225	ug/l #	51
60) Dibromochloromethane	11.371	129	672	0.355	ug/l	80
71) Bromoform	12.853	173	692	0.525	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.859	83	53	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.853	75	53458	28.724	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	53458	73.734	ug/l #	10
95) Naphthalene	15.647	128	14057	2.817	ug/l	99

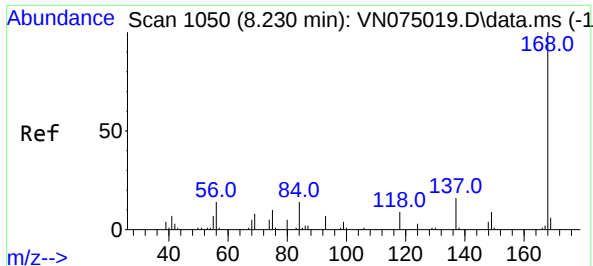
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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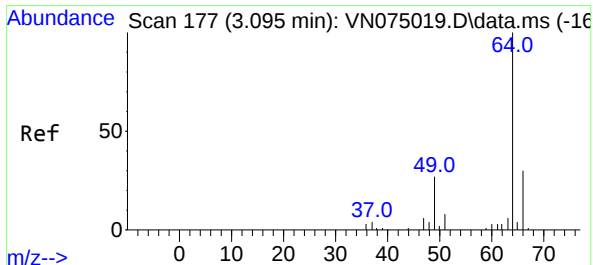
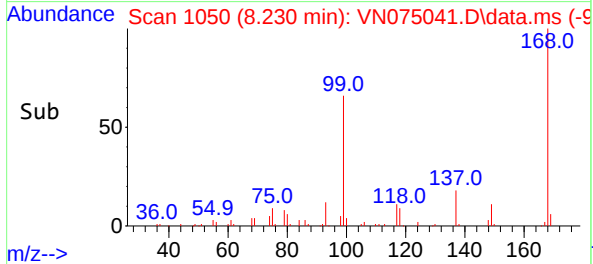
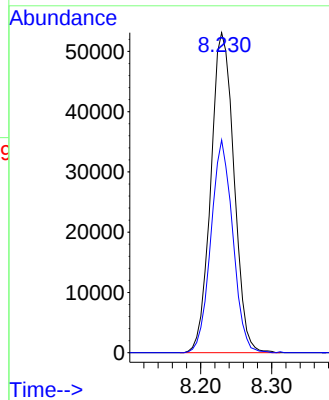
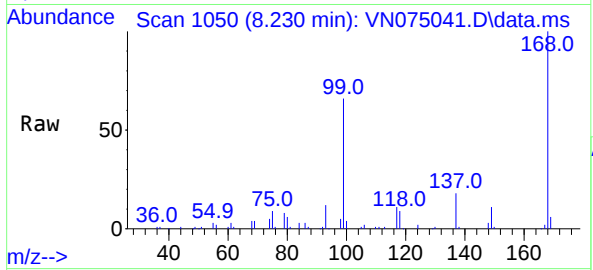




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

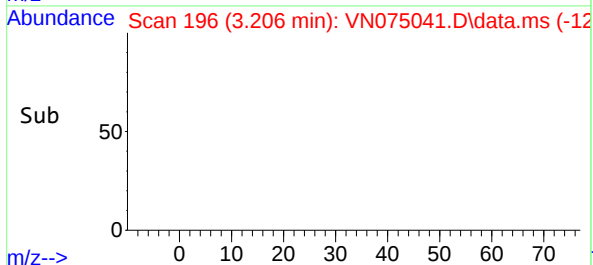
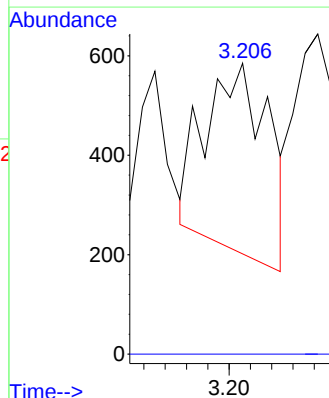
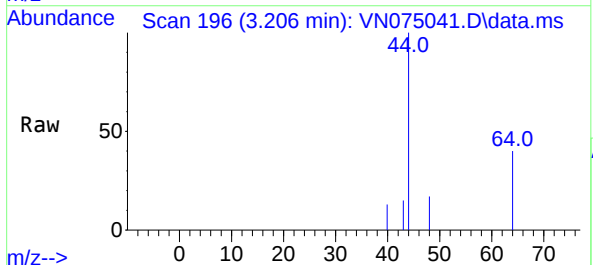
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE

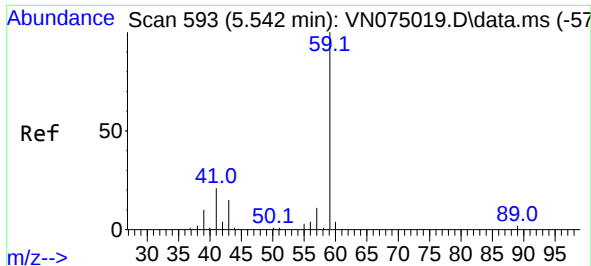
Tgt Ion:168 Resp: 120152
Ion Ratio Lower Upper
168 100
99 66.5 51.6 77.4



#6
Chloroethane
Concen: 0.455 ug/l
RT: 3.206 min Scan# 196
Delta R.T. 0.111 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion: 64 Resp: 773
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.8#

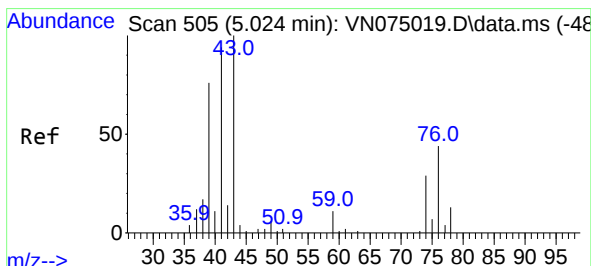
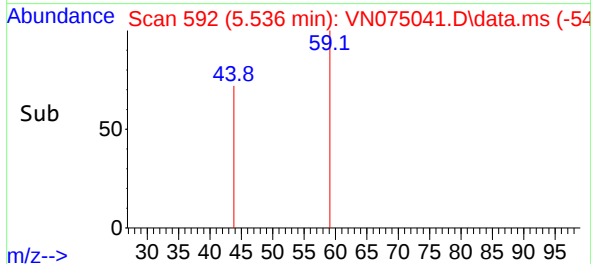
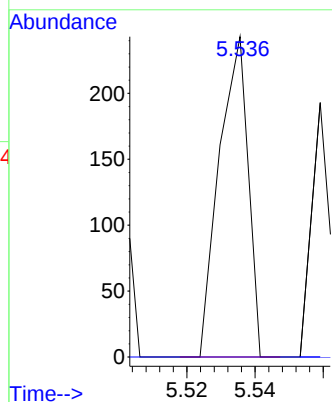
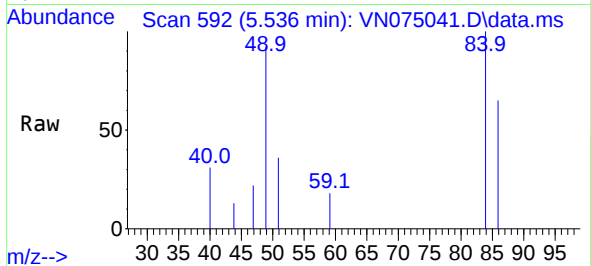




#11
Tert butyl alcohol
Concen: 0.379 ug/l
RT: 5.536 min Scan# 591
Delta R.T. -0.006 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

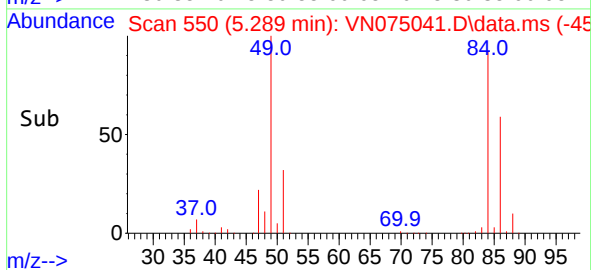
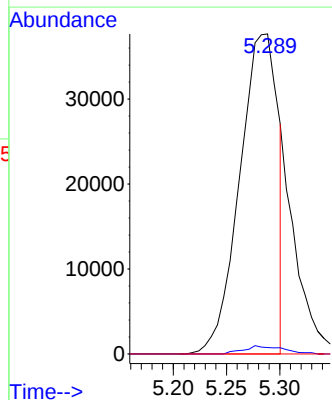
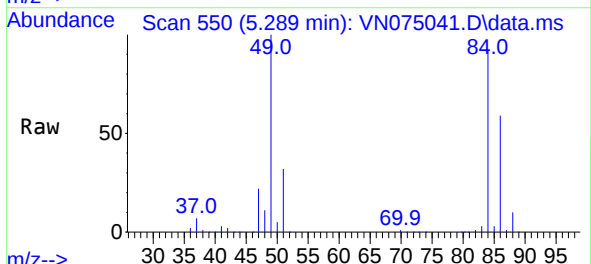
Instrument :
MSVOA_N
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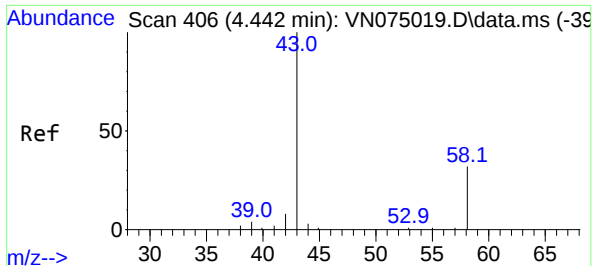
Tgt Ion: 59 Resp: 143
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#14
Allyl chloride
Concen: 50.723 ug/l
RT: 5.289 min Scan# 550
Delta R.T. 0.265 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion: 41 Resp: 94353
Ion Ratio Lower Upper
41 100
39 1.8 61.0 91.4#
76 0.0 33.4 50.0#

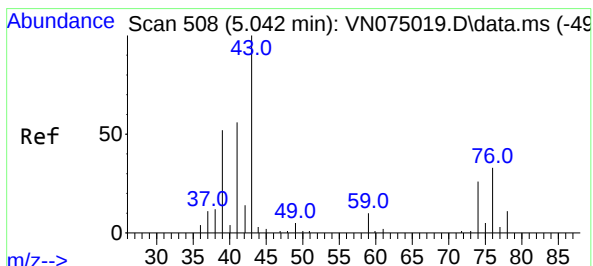
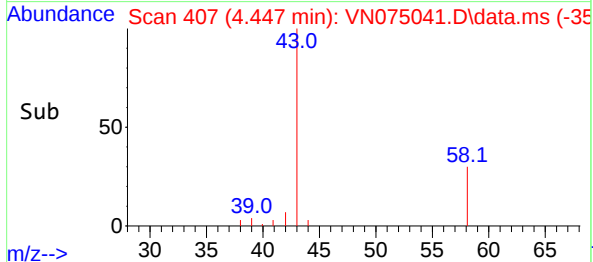
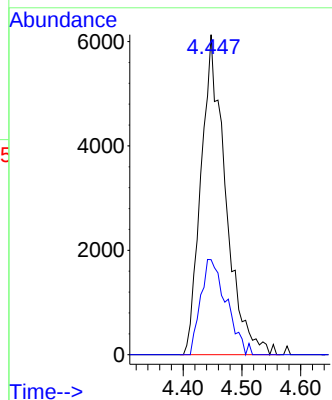
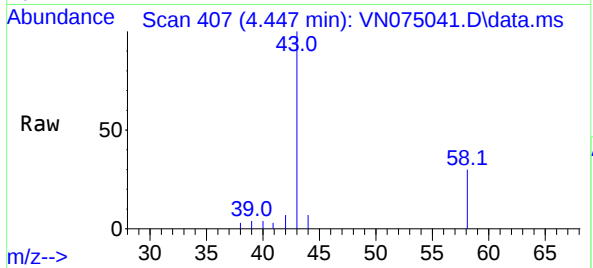




#16
Acetone
Concen: 25.980 ug/l
RT: 4.447 min Scan# 406
Delta R.T. 0.005 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

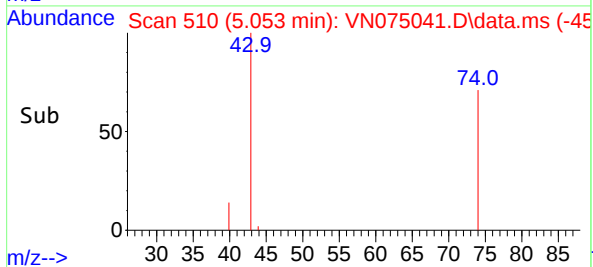
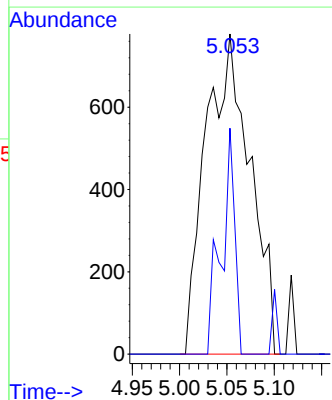
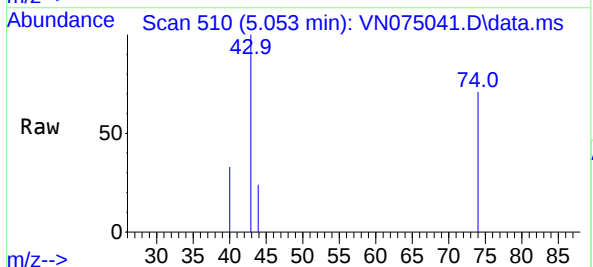
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE

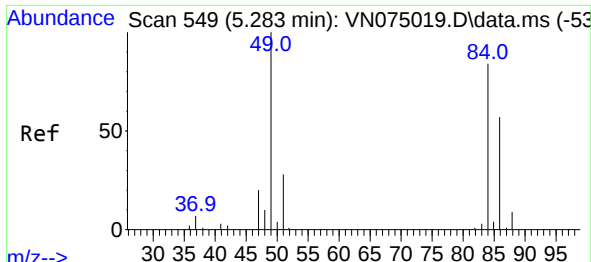
Tgt Ion: 43 Resp: 17809
Ion Ratio Lower Upper
43 100
58 29.7 25.5 38.3



#18
Methyl Acetate
Concen: 1.129 ug/l
RT: 5.053 min Scan# 510
Delta R.T. 0.011 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

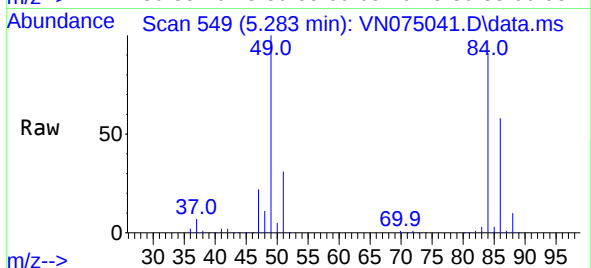
Tgt Ion: 43 Resp: 2528
Ion Ratio Lower Upper
43 100
74 21.4 22.0 33.0#





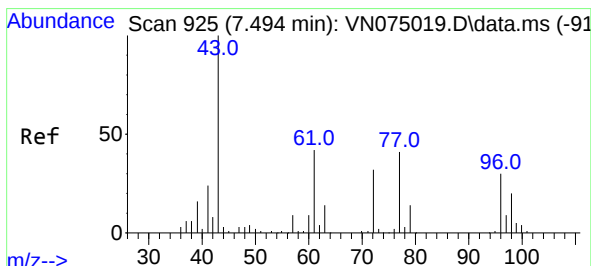
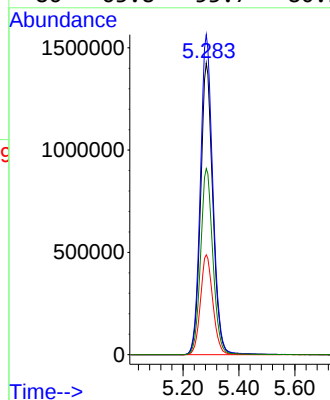
#20
Methylene Chloride
Concen: 2830.887 ug/l
RT: 5.283 min Scan# 549
Delta R.T. -0.000 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE



Tgt Ion: 84 Resp: 4326706

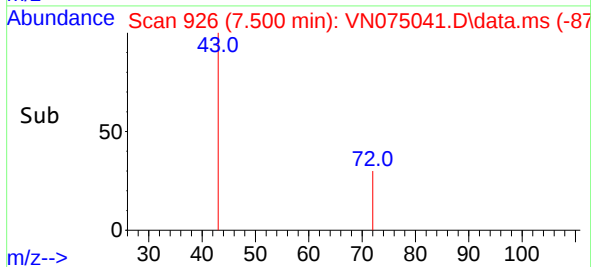
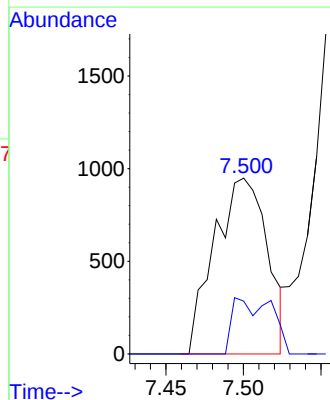
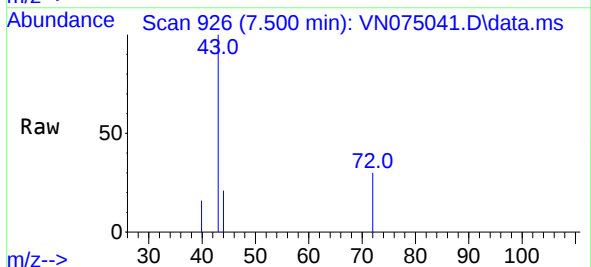
Ion	Ratio	Lower	Upper
84	100		
49	109.7	94.9	142.3
51	34.2	26.8	40.2
86	63.8	53.7	80.5

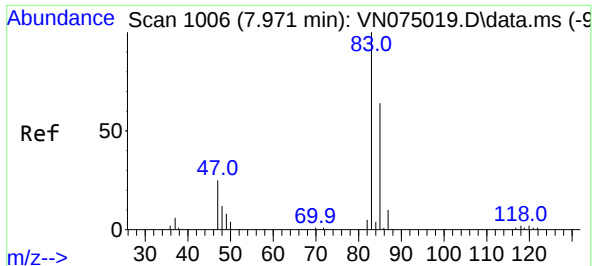


#25
2-Butanone
Concen: 2.099 ug/l
RT: 7.500 min Scan# 926
Delta R.T. 0.006 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion: 43 Resp: 2263

Ion	Ratio	Lower	Upper
43	100		
72	30.0	25.5	38.3





#30

Chloroform

Concen: 1.022 ug/l

RT: 7.971 min Scan# 1006

Delta R.T. -0.000 min

Lab File: VN075041.D

Acq: 27 Oct 2022 15:19

Instrument :

MSVOA_N

ClientSampleId :

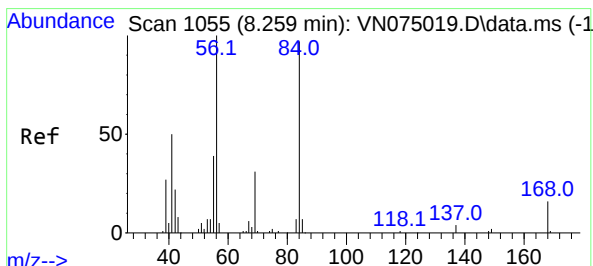
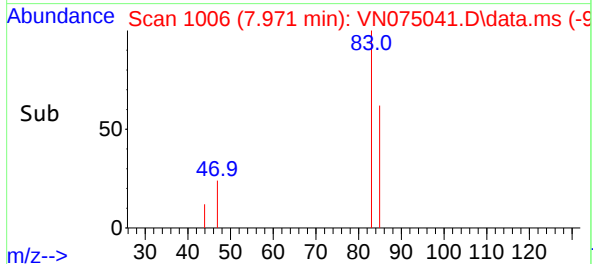
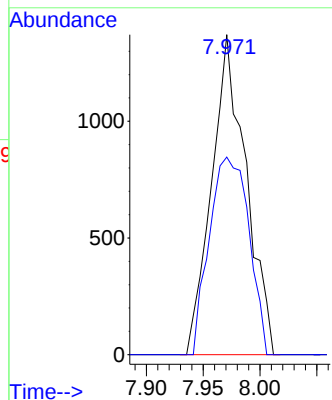
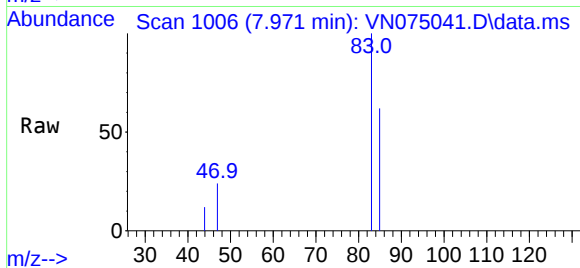
LIDEN-GAS-PIPELINE

Tgt Ion: 83 Resp: 2882

Ion Ratio Lower Upper

83 100

85 61.8 51.4 77.0



#31

Cyclohexane

Concen: 1.148 ug/l

RT: 8.224 min Scan# 1049

Delta R.T. -0.035 min

Lab File: VN075041.D

Acq: 27 Oct 2022 15:19

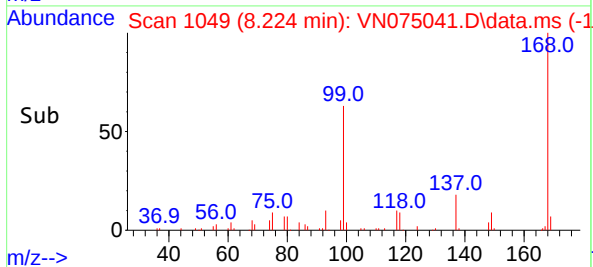
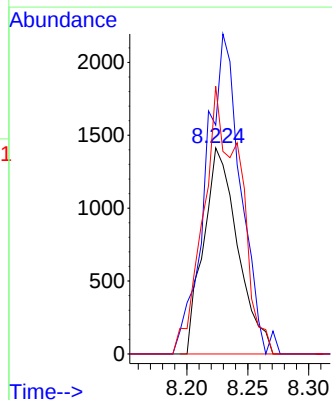
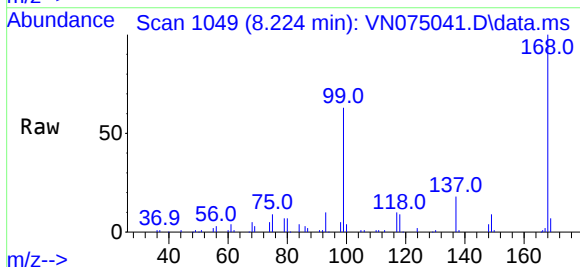
Tgt Ion: 56 Resp: 2763

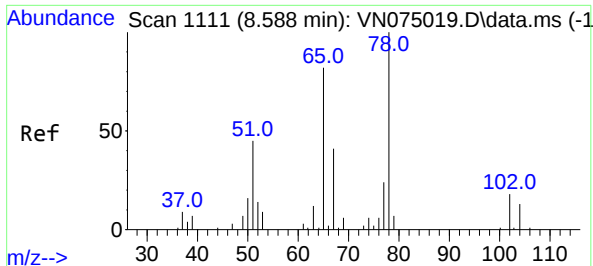
Ion Ratio Lower Upper

56 100

69 111.0 25.2 37.8#

84 129.8 77.8 116.8#

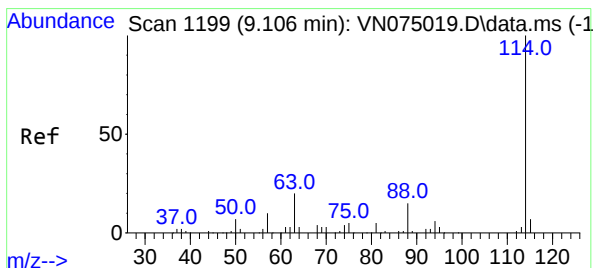
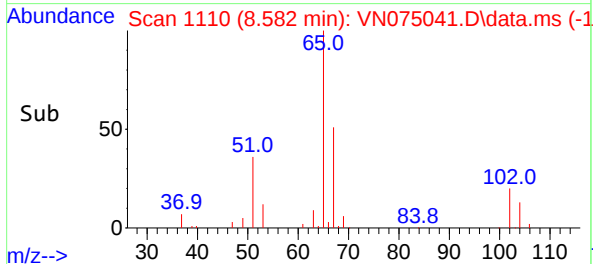
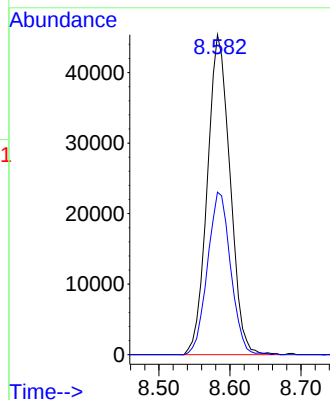
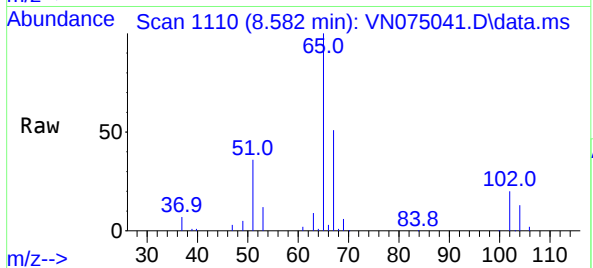




#33
1,2-Dichloroethane-d4
Concen: 62.317 ug/l
RT: 8.582 min Scan# 1111
Delta R.T. -0.006 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

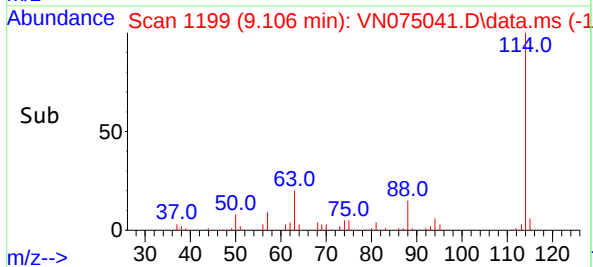
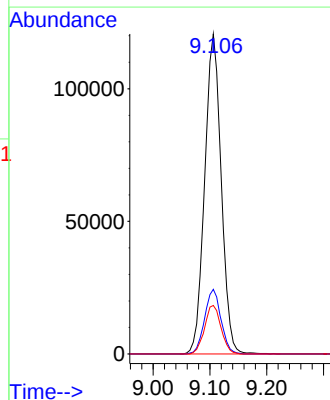
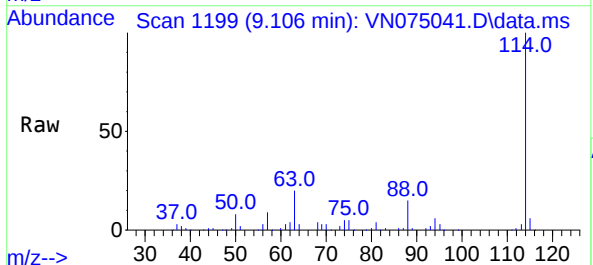
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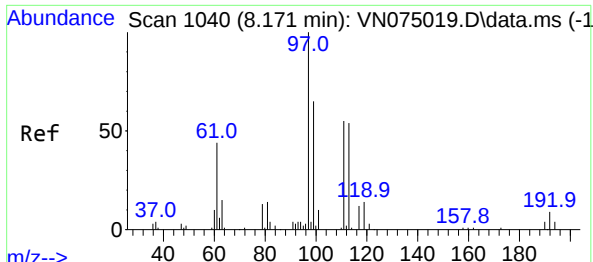
Tgt Ion: 65 Resp: 100886
Ion Ratio Lower Upper
65 100
67 51.7 0.0 102.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 1199
Delta R.T. -0.000 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

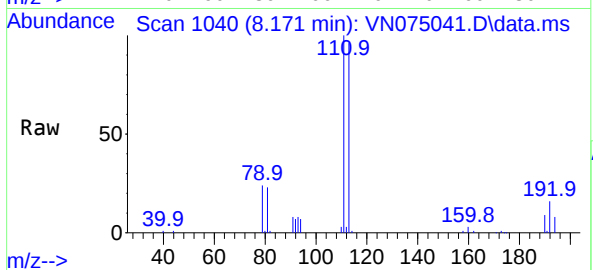
Tgt Ion: 114 Resp: 243451
Ion Ratio Lower Upper
114 100
63 20.2 0.0 39.6
88 15.1 0.0 29.0



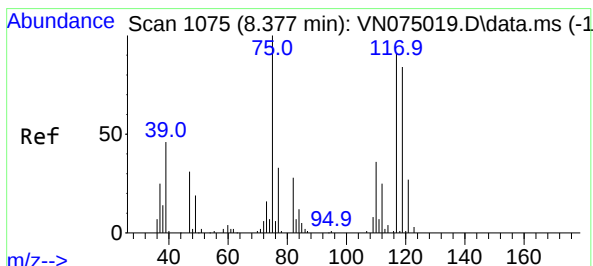
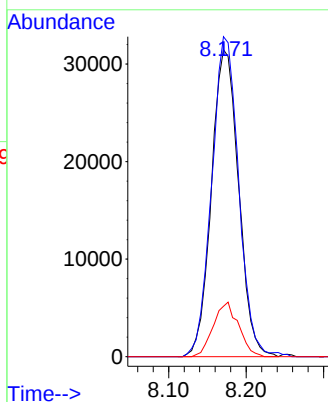
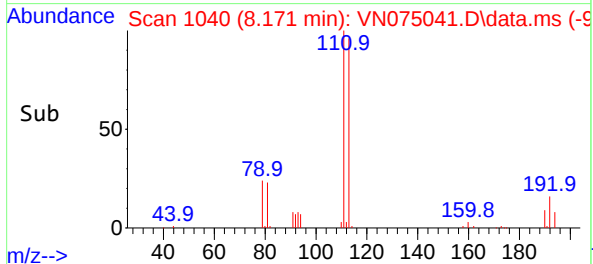


#35
Dibromofluoromethane
Concen: 53.646 ug/l
RT: 8.171 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

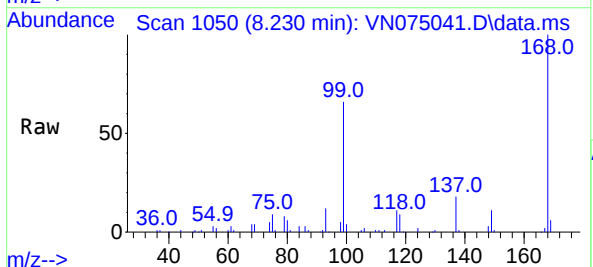
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE



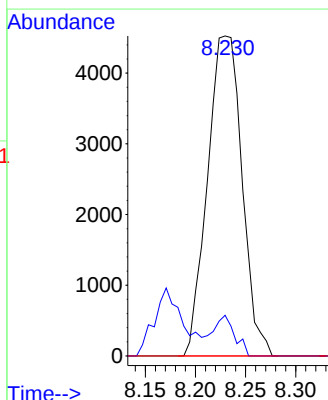
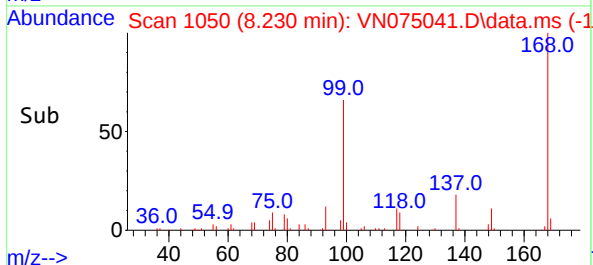
Tgt Ion:113 Resp: 76670
Ion Ratio Lower Upper
113 100
111 103.6 80.5 120.7
192 16.5 13.2 19.8

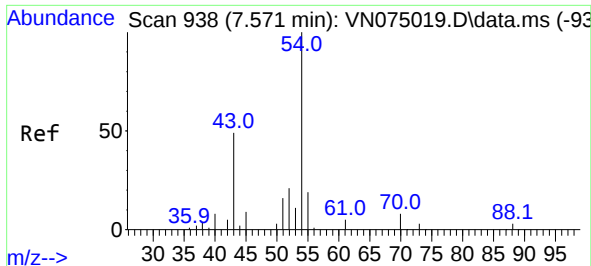


#36
1,1-Dichloropropene
Concen: 4.907 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.147 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19



Tgt Ion: 75 Resp: 10858
Ion Ratio Lower Upper
75 100
110 8.2 17.8 53.3#
77 0.0 24.6 37.0#

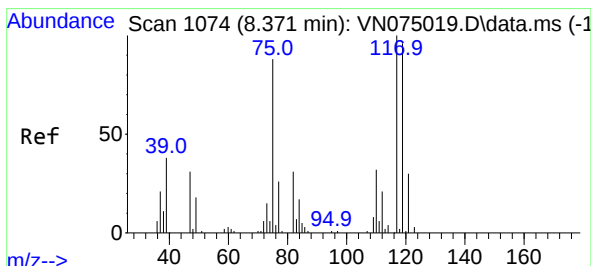
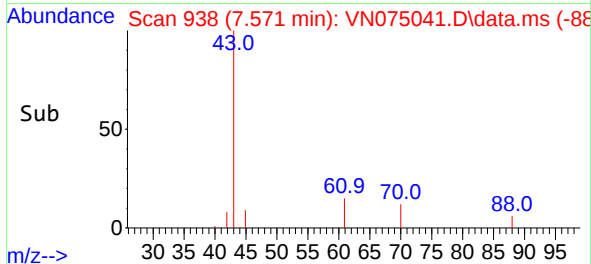
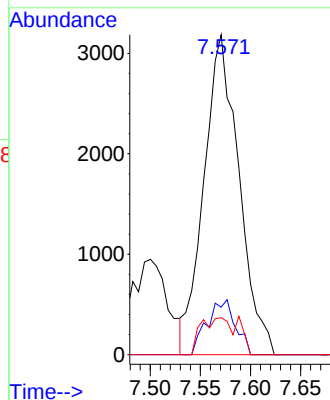
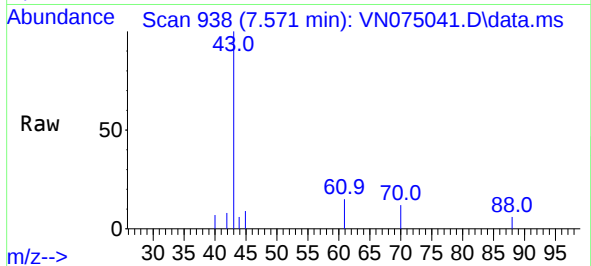




#37
Ethyl Acetate
Concen: 3.191 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

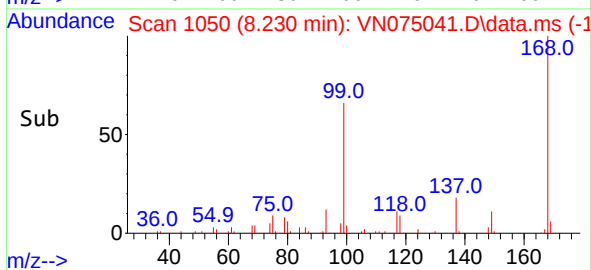
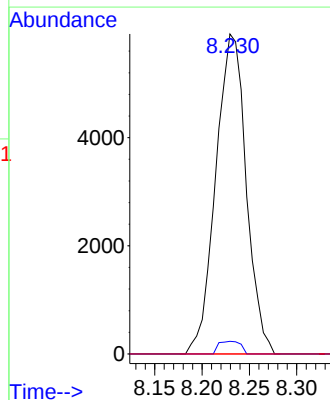
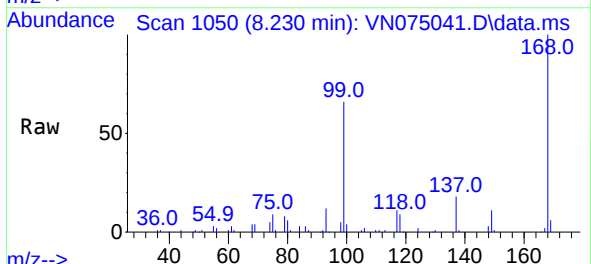
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE

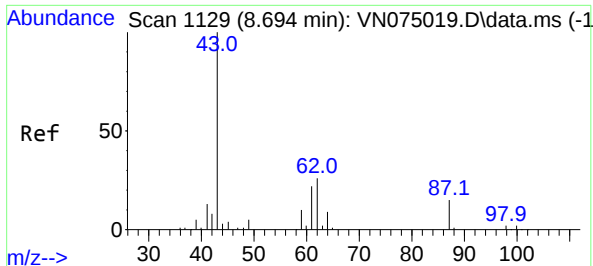
Tgt Ion:	43	Resp:	7744
Ion	Ratio	Lower	Upper
43	100		
61	13.8	12.2	18.4
70	12.4	9.4	14.2



#38
Carbon Tetrachloride
Concen: 5.441 ug/l
RT: 8.230 min Scan# 1050
Delta R.T. -0.141 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion:	117	Resp:	13242
Ion	Ratio	Lower	Upper
117	100		
119	3.9	76.7	115.1#
121	0.0	23.9	35.9#

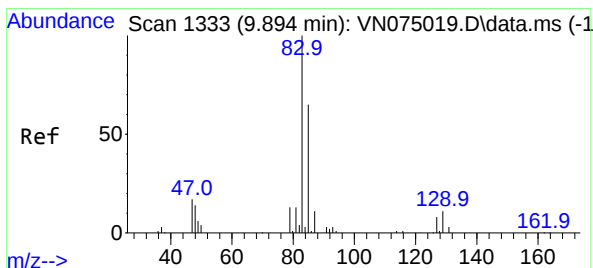
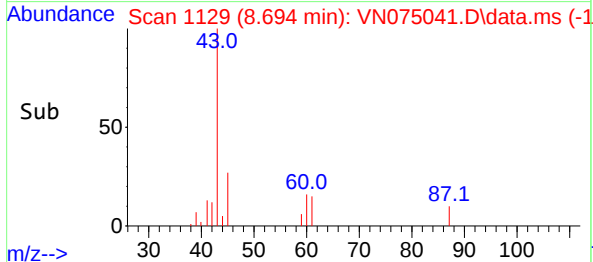
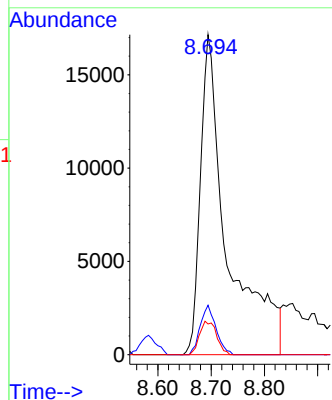
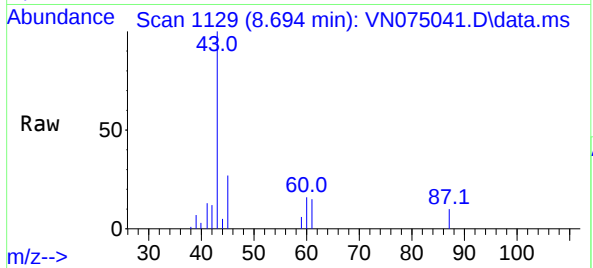




#43
Isopropyl Acetate
Concen: 15.994 ug/l
RT: 8.694 min Scan# 1129
Delta R.T. 0.000 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

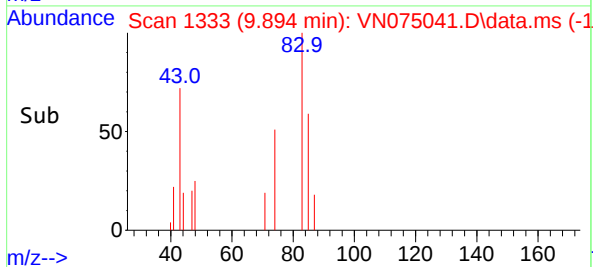
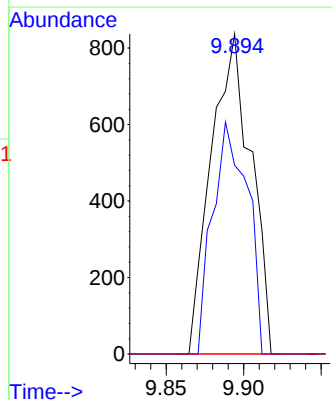
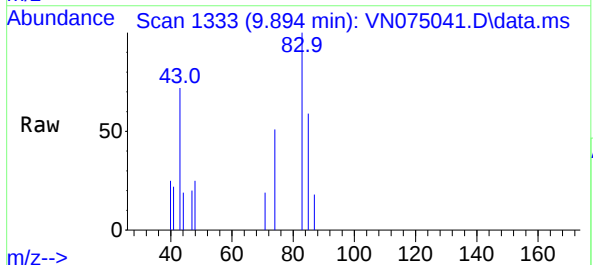
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE

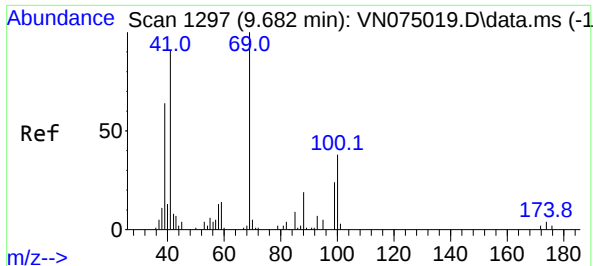
Tgt Ion: 43 Resp: 60199
Ion Ratio Lower Upper
43 100
61 9.1 22.4 33.6#
87 6.6 12.5 18.7#



#47
Bromodichloromethane
Concen: 0.613 ug/l
RT: 9.894 min Scan# 1333
Delta R.T. 0.000 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion: 83 Resp: 1492
Ion Ratio Lower Upper
83 100
85 59.0 52.1 78.1
127 0.0 6.6 10.0#





#48

Methyl methacrylate

Concen: 0.627 ug/l

RT: 9.676 min Scan# 1297

Delta R.T. -0.006 min

Lab File: VN075041.D

Acq: 27 Oct 2022 15:19

Instrument :

MSVOA_N

ClientSampleId :

LIDEN-GAS-PIPELINE

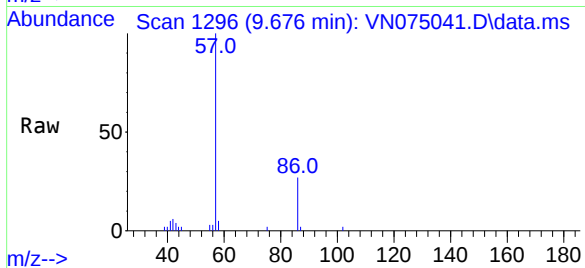
Tgt Ion: 41 Resp: 1083

Ion Ratio Lower Upper

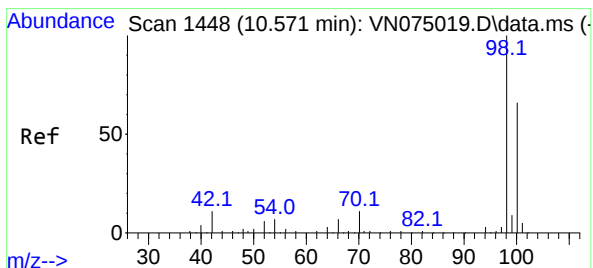
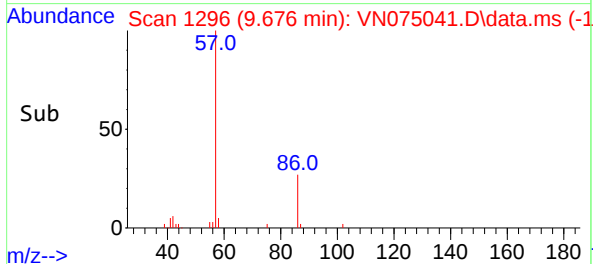
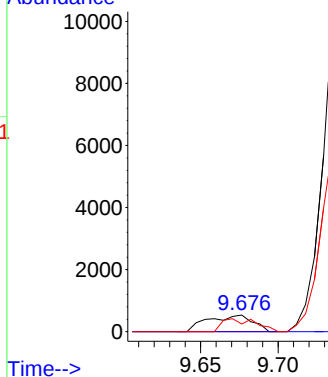
41 100

69 0.0 80.2 120.2#

39 58.0 56.2 84.2



Abundance



#50

Toluene-d8

Concen: 54.430 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. -0.000 min

Lab File: VN075041.D

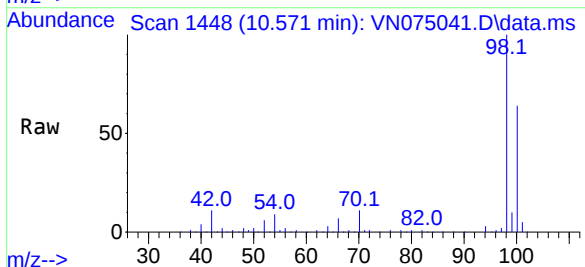
Acq: 27 Oct 2022 15:19

Tgt Ion: 98 Resp: 301803

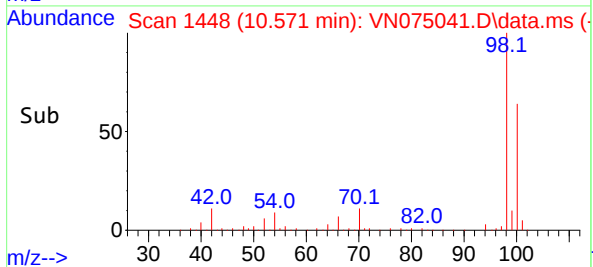
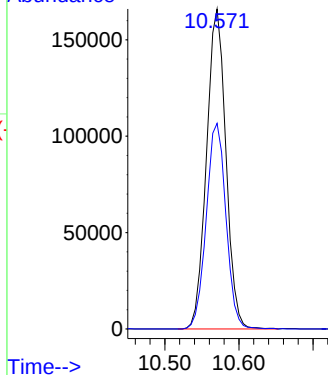
Ion Ratio Lower Upper

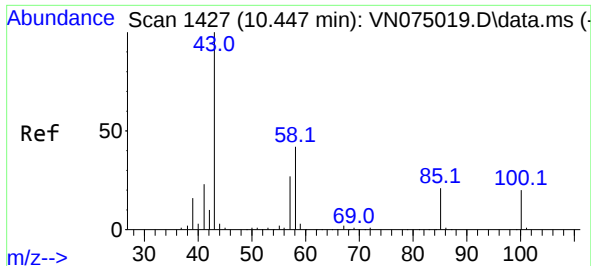
98 100

100 65.3 53.0 79.6



Abundance

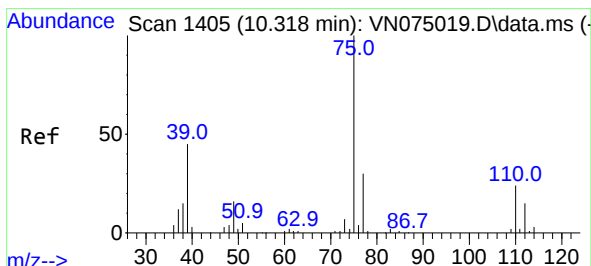
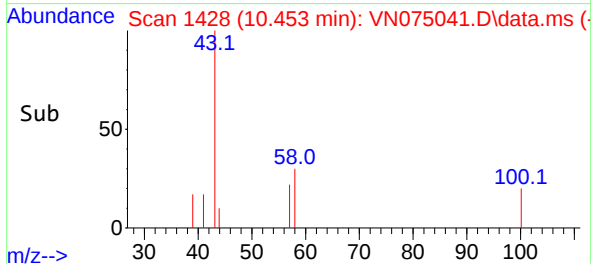
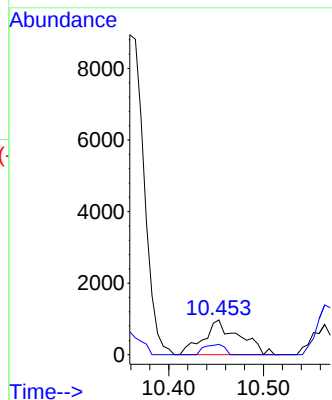
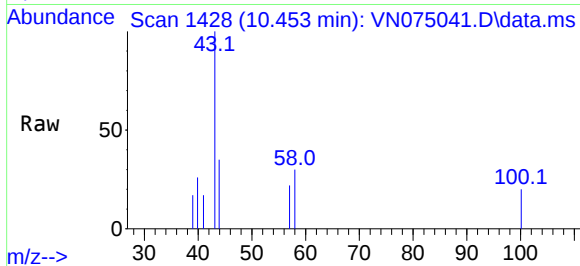




#51
4-Methyl-2-Pentanone
Concen: 1.042 ug/l
RT: 10.453 min Scan# 1428
Delta R.T. 0.006 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

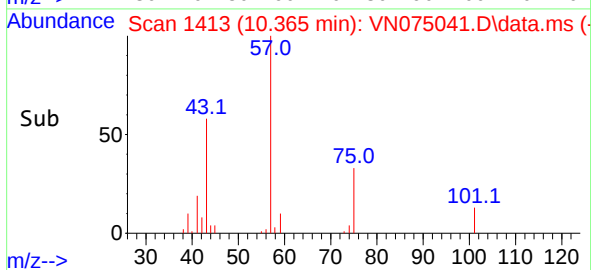
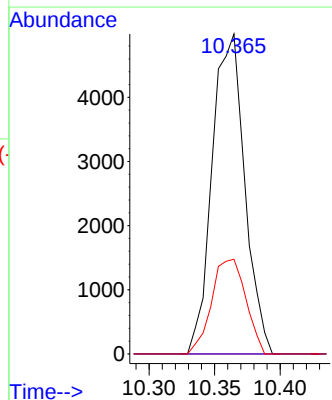
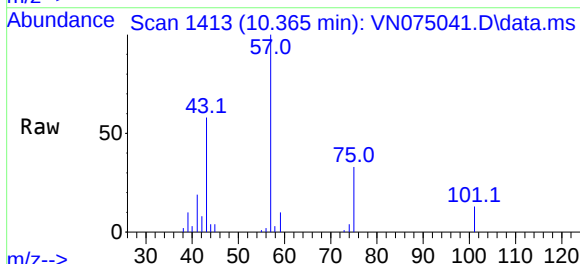
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE

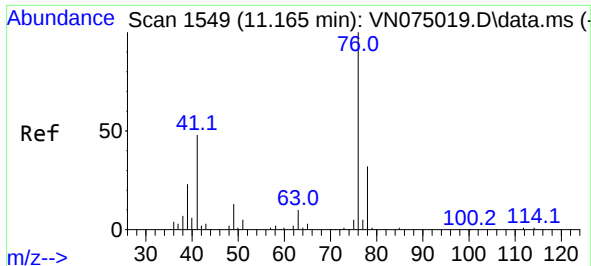
Tgt Ion: 43 Resp: 2530
Ion Ratio Lower Upper
43 100
58 16.9 33.6 50.4#



#54
cis-1,3-Dichloropropene
Concen: 3.161 ug/l
RT: 10.365 min Scan# 1413
Delta R.T. 0.047 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion: 75 Resp: 8608
Ion Ratio Lower Upper
75 100
77 0.0 23.7 35.5#
39 29.6 35.8 53.6#





#57

1,3-Dichloropropane

Concen: 0.444 ug/l

RT: 11.206 min Scan# 1556

Delta R.T. 0.041 min

Lab File: VN075041.D

Acq: 27 Oct 2022 15:19

Instrument :

MSVOA_N

ClientSampleId :

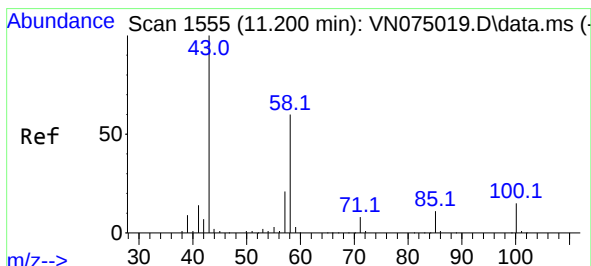
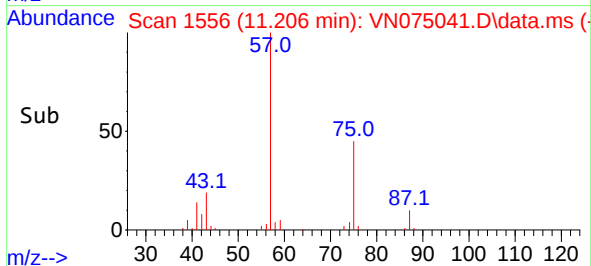
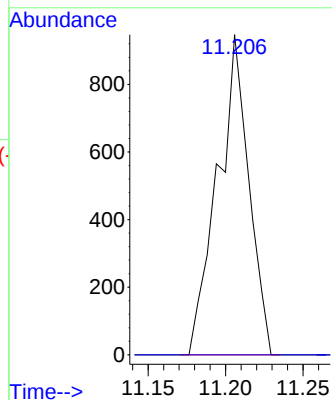
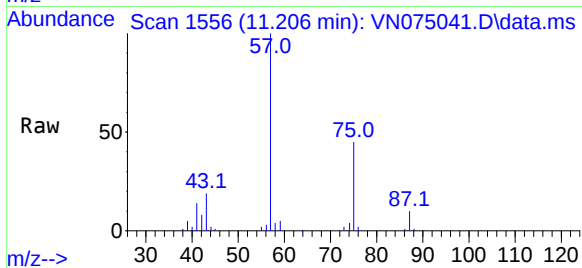
LIDEN-GAS-PIPELINE

Tgt Ion: 76 Resp: 1327

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 8.225 ug/l

RT: 11.200 min Scan# 1555

Delta R.T. -0.000 min

Lab File: VN075041.D

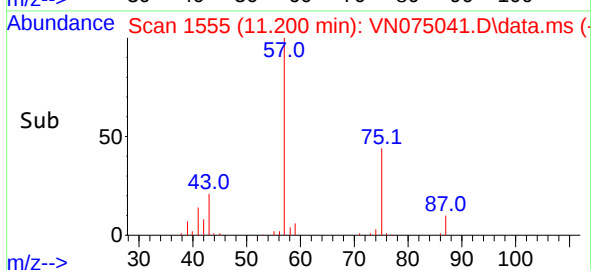
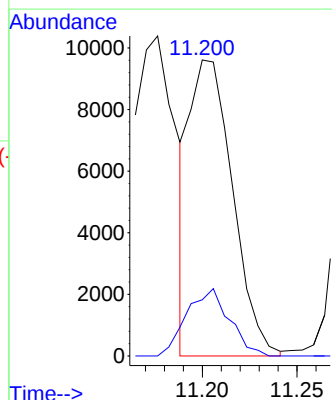
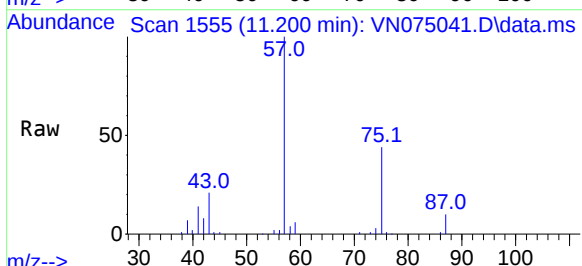
Acq: 27 Oct 2022 15:19

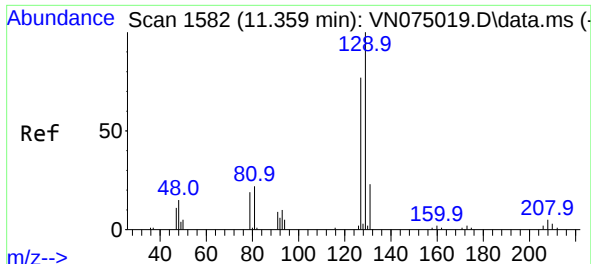
Tgt Ion: 43 Resp: 15162

Ion Ratio Lower Upper

43 100

58 22.6 29.6 88.8#

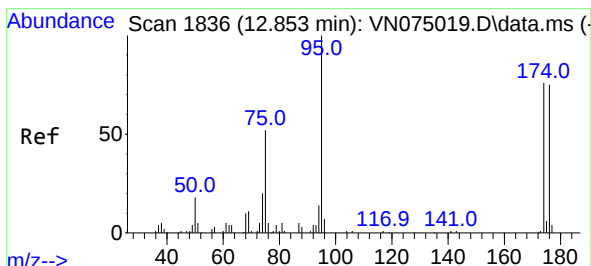
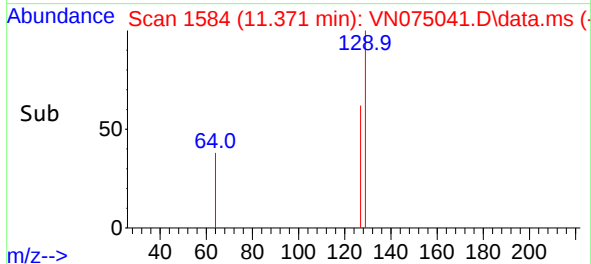
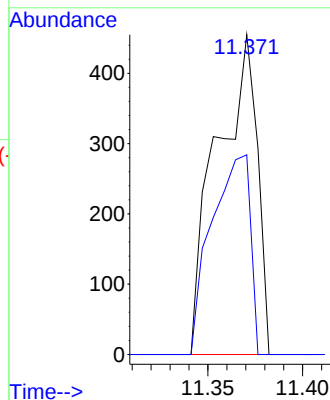
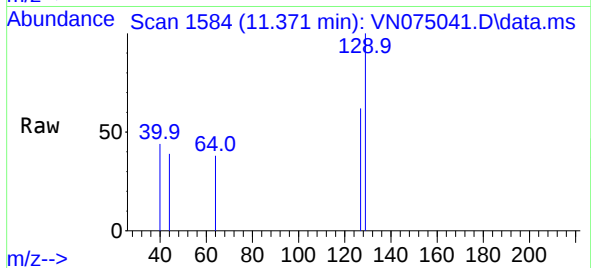




#60
Dibromochloromethane
Concen: 0.355 ug/l
RT: 11.371 min Scan# 11
Delta R.T. 0.011 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

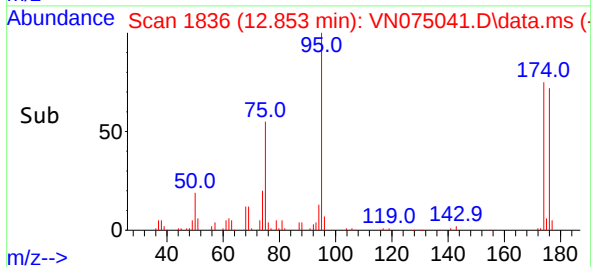
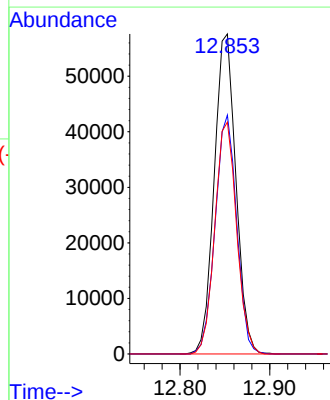
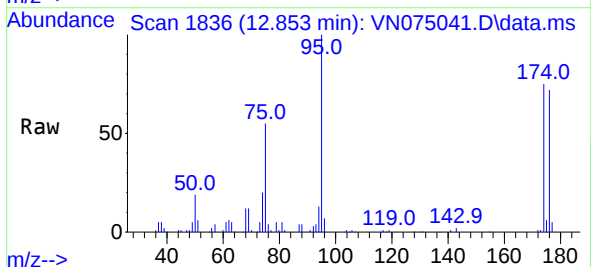
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE

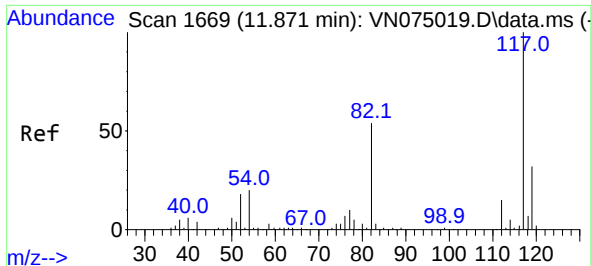
Tgt Ion:129 Resp: 672
Ion Ratio Lower Upper
129 100
127 59.8 38.6 115.8



#62
4-Bromofluorobenzene
Concen: 49.580 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.000 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion: 95 Resp: 96571
Ion Ratio Lower Upper
95 100
174 73.9 0.0 147.4
176 72.7 0.0 142.2

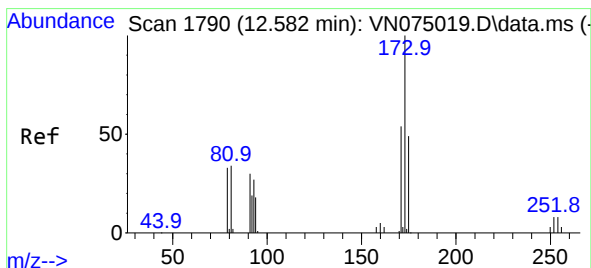
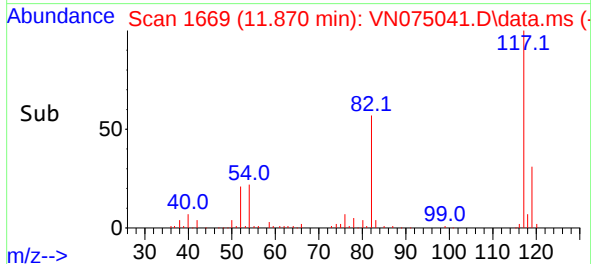
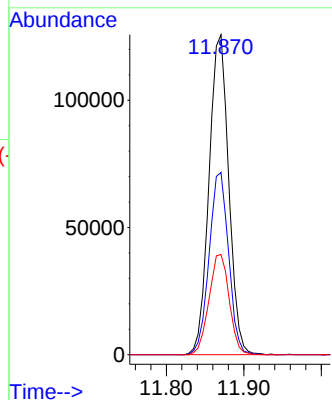
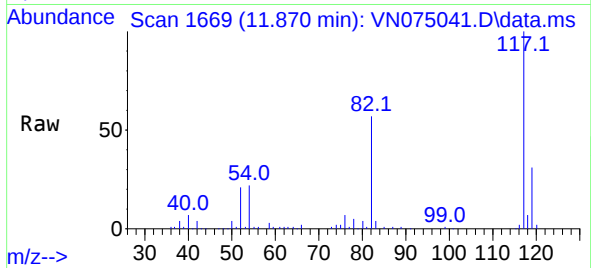




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.870 min Scan# 1170
Delta R.T. -0.001 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

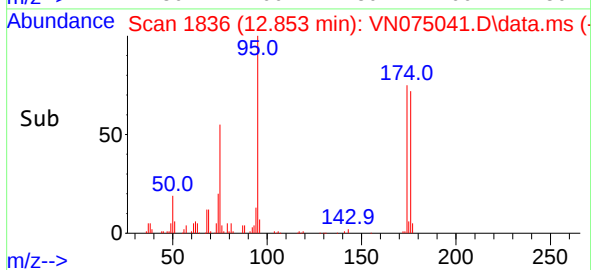
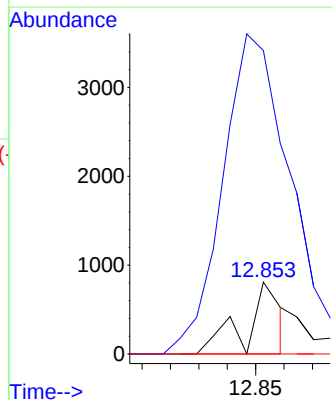
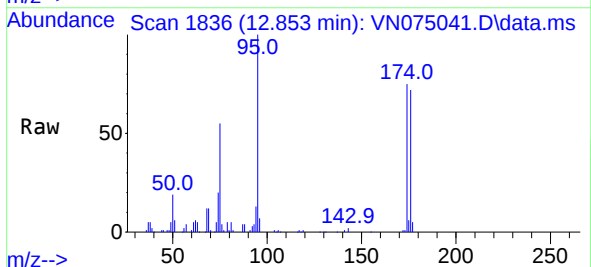
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE

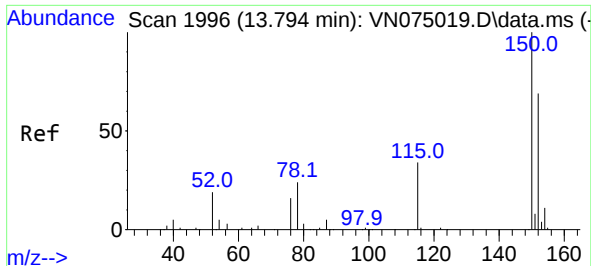
Tgt Ion:117 Resp: 222167
Ion Ratio Lower Upper
117 100
82 57.0 43.1 64.7
119 31.3 25.5 38.3



#71
Bromoform
Concen: 0.525 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.271 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion:173 Resp: 692
Ion Ratio Lower Upper
173 100
175 700.6 24.6 74.0#
254 0.0 0.0 0.0

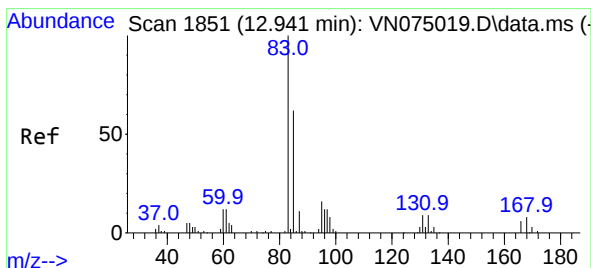
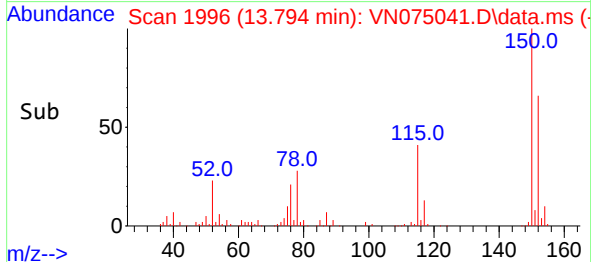
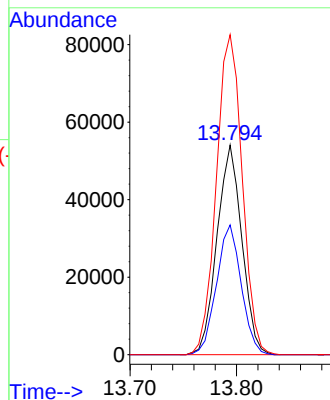
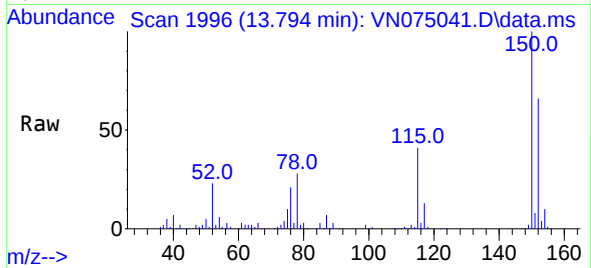




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

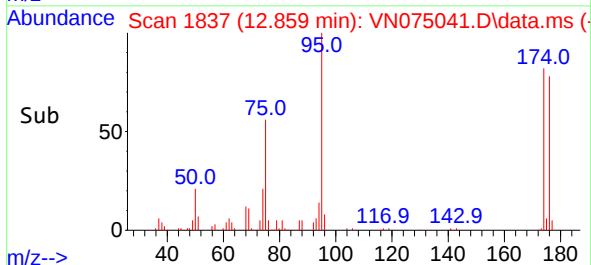
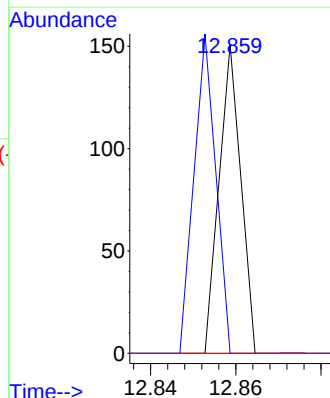
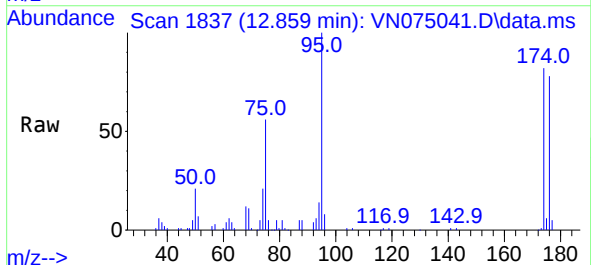
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE

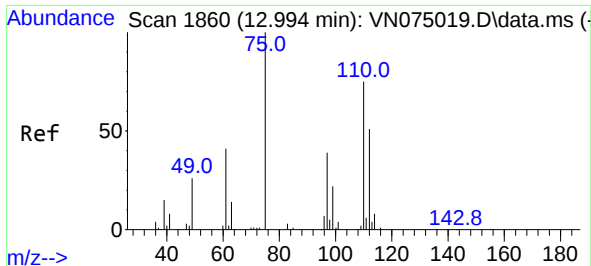
Tgt Ion:152 Resp: 87652
Ion Ratio Lower Upper
152 100
115 61.5 30.2 90.6
150 158.7 0.0 348.4



#75
1,1,2,2-Tetrachloroethane
Concen: Below Cal
RT: 12.859 min Scan# 1837
Delta R.T. -0.082 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion: 83 Resp: 53
Ion Ratio Lower Upper
83 100
131 103.8 5.1 15.3#
85 0.0 31.6 94.7#

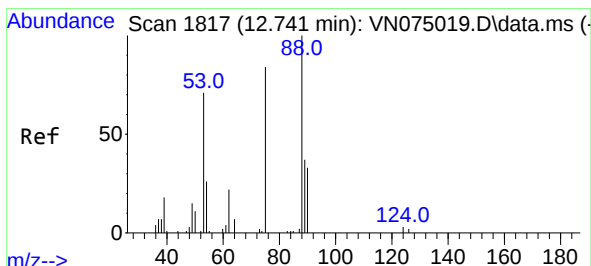
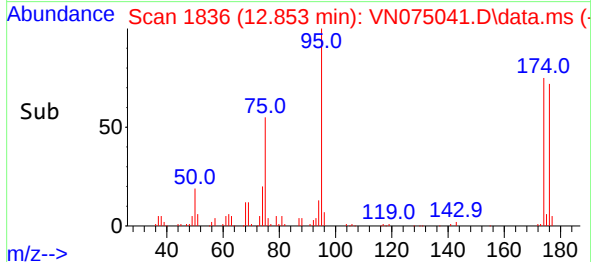
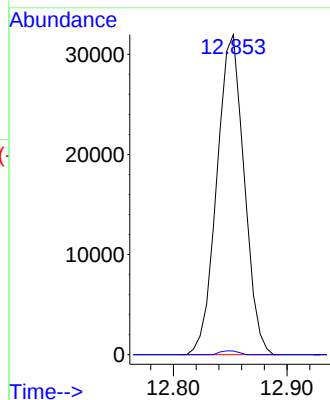
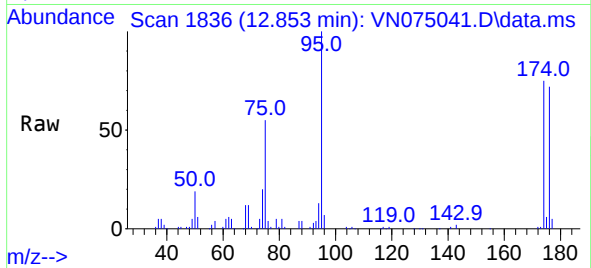




#76
1,2,3-Trichloropropane
Concen: 28.724 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. -0.141 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

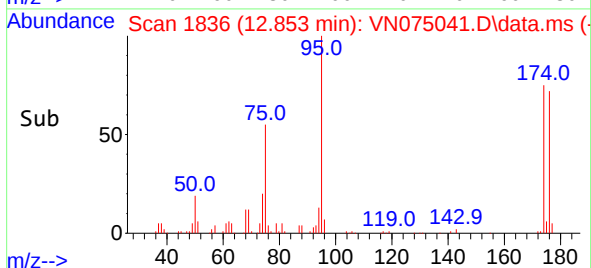
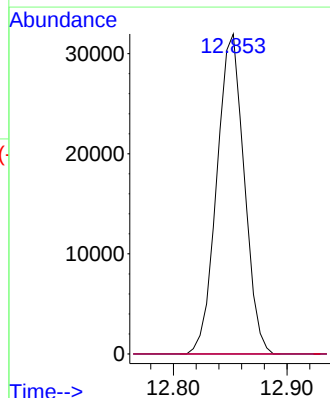
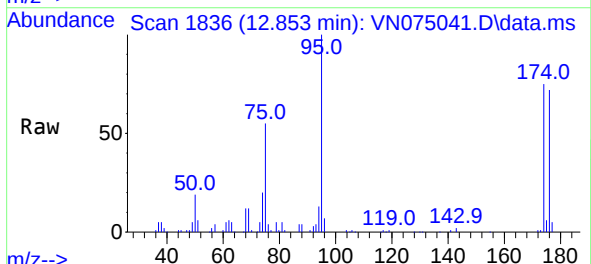
Instrument :
MSVOA_N
ClientSampleId :
LIDEN-GAS-PIPELINE

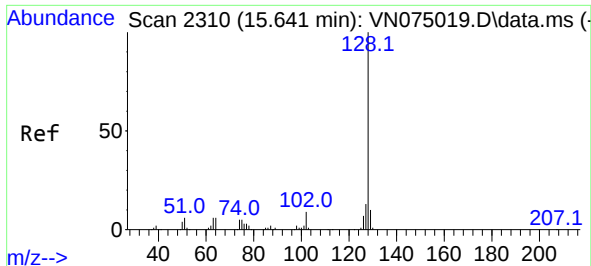
Tgt Ion: 75 Resp: 53458
Ion Ratio Lower Upper
75 100
77 0.8 75.6 226.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 73.734 ug/l
RT: 12.853 min Scan# 1836
Delta R.T. 0.112 min
Lab File: VN075041.D
Acq: 27 Oct 2022 15:19

Tgt Ion: 75 Resp: 53458
Ion Ratio Lower Upper
75 100
53 0.0 78.5 117.7#
89 0.0 37.7 56.5#





#95

Naphthalene

Concen: 2.817 ug/l

RT: 15.647 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN075041.D

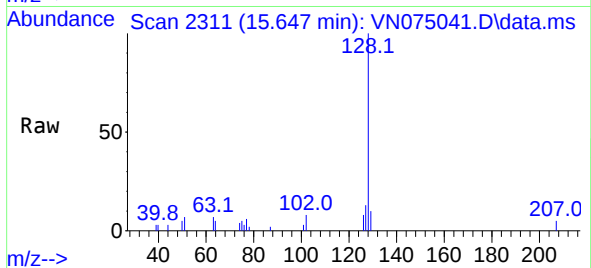
Acq: 27 Oct 2022 15:19

Instrument :

MSVOA_N

ClientSampleId :

LIDEN-GAS-PIPELINE



Tgt Ion:128 Resp: 14057

Ion Ratio Lower Upper

128 100

127 13.3 10.4 15.6

129 10.8 8.6 12.8

