

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042924\
 Data File : VN081909.D
 Acq On : 29 Apr 2024 13:08
 Operator : JC\MD
 Sample : P2286-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 30 04:35:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

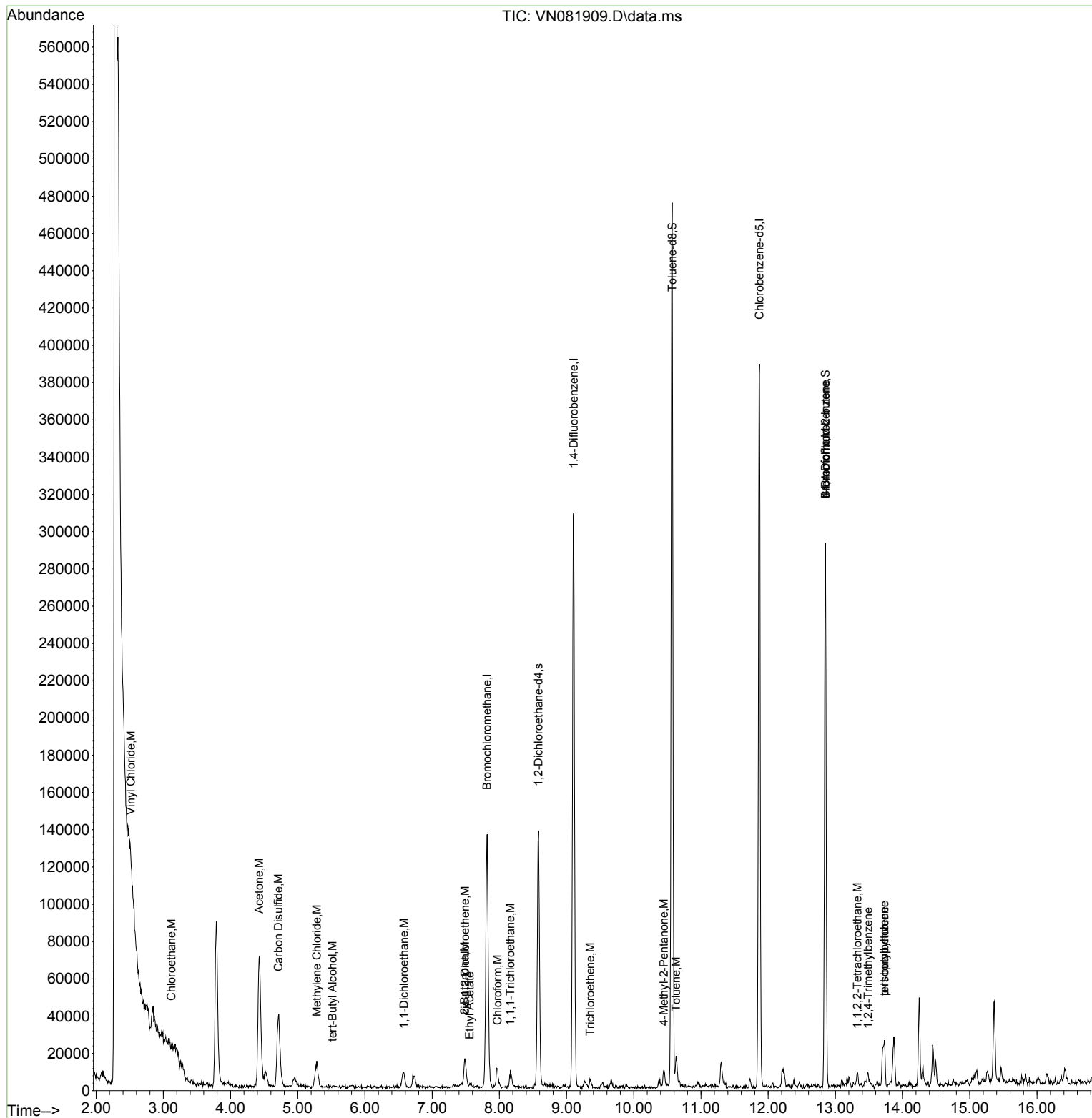
Internal Standards						
1) Bromochloromethane	7.818	128	44832	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	261771	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	217524	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	108862	29.002	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.667%
60) 4-Bromofluorobenzene	12.853	95	103685	28.642	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	95.467%
63) Toluene-d8	10.571	98	316493	30.637	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.133%
Target Compounds						
					Qvalue	
4) Vinyl Chloride	2.518	62	1172	0.420	ug/l #	1
6) Chloroethane	3.118	64	1546	0.979	ug/l #	41
15) Acetone	4.424	58	42030	119.951	ug/l	84
16) Carbon Disulfide	4.712	76	2781	0.367	ug/l #	86
18) Methylene Chloride	5.283	84	5864	1.884	ug/l #	45
21) 1,1-Dichloroethane	6.583	63	11627	2.066	ug/l	96
22) cis-1,2-Dichloroethene	7.488	96	5543	1.597	ug/l #	53
23) tert-Butyl Alcohol	5.518	59	369	0.573	ug/l #	100
25) Chloroform	7.971	83	9010	1.664	ug/l	100
30) 2-Butanone	7.483	43	5058	2.518	ug/l #	90
32) 1,1,1-Trichloroethane	8.165	97	3595	0.802	ug/l #	84
37) Trichloroethene	9.353	130	800	0.263	ug/l #	50
43) Ethyl Acetate	7.559	43	1289	0.294	ug/l #	69
56) Bromoform	12.853	173	427	0.232	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	7737	1.832	ug/l #	81
62) Toluene	10.629	91	10555	0.862	ug/l	99
71) 1,1,2,2-Tetrachloroethane	13.329	83	1235	0.343	ug/l #	31
77) t-1,4-Dichloro-2-butene	12.853	75	58073	38.802	ug/l #	12
79) tert-butylbenzene	13.729	119	12734	1.462	ug/l	70
80) 1,2,4-Trimethylbenzene	13.488	105	4491	0.442	ug/l	91
82) p-Isopropyltoluene	13.729	119	12734	1.319	ug/l	88

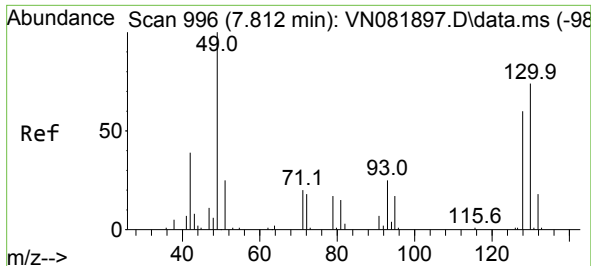
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 27 04:37:27 2024
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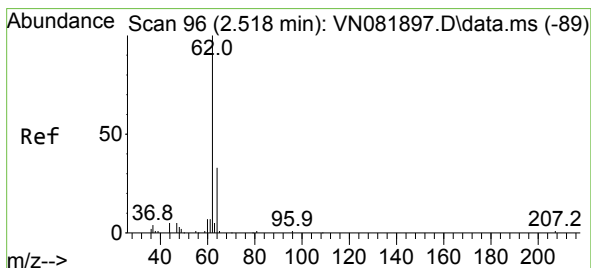
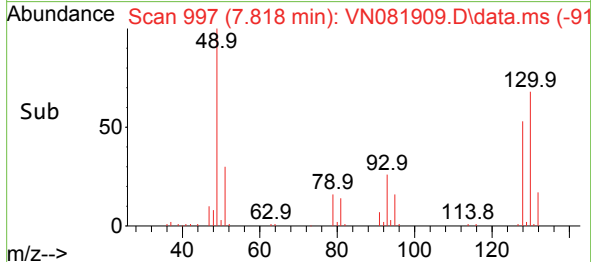
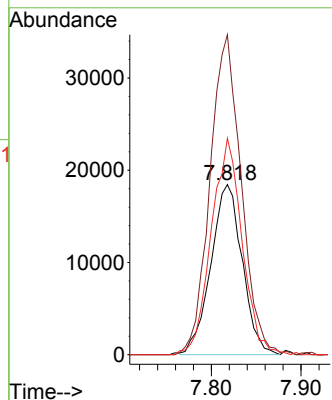
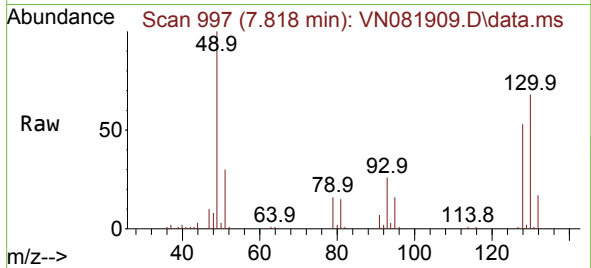




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

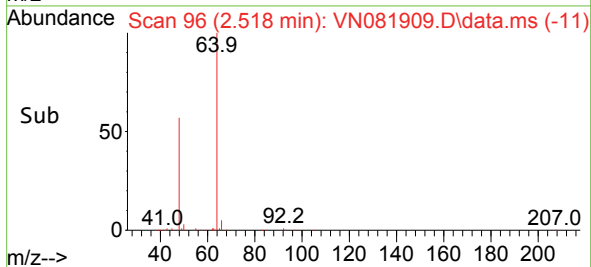
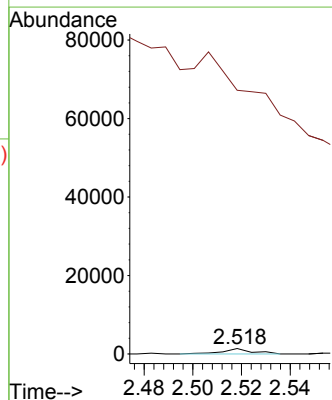
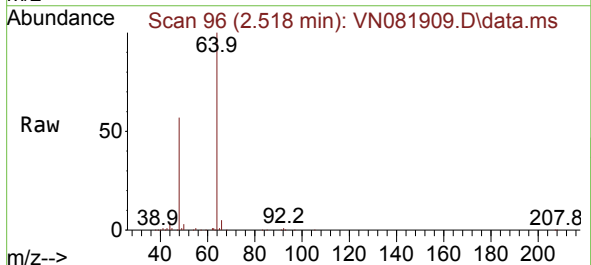
Instrument :
MSVOA_N
ClientSampleId :

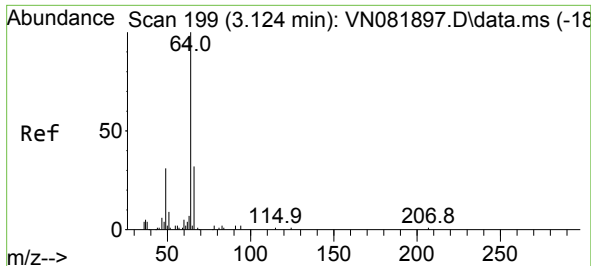
Tgt Ion:128 Resp: 44832
Ion Ratio Lower Upper
128 100
49 186.6 0.0 403.7
130 124.6 0.0 323.3



#4
Vinyl Chloride
Concen: 0.420 ug/l
RT: 2.518 min Scan# 96
Delta R.T. -0.000 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

Tgt Ion: 62 Resp: 1172
Ion Ratio Lower Upper
62 100
64 458.3 24.1 36.1#

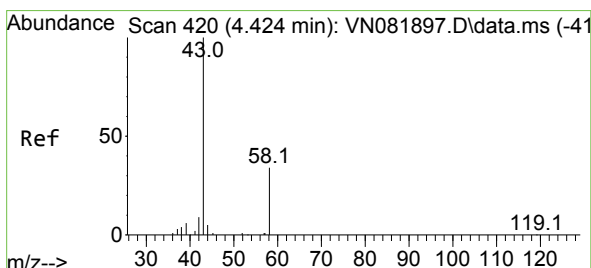
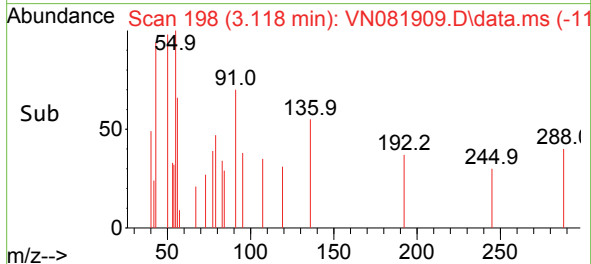
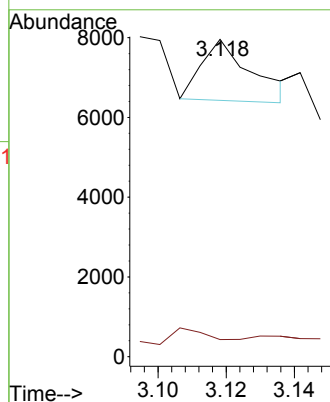
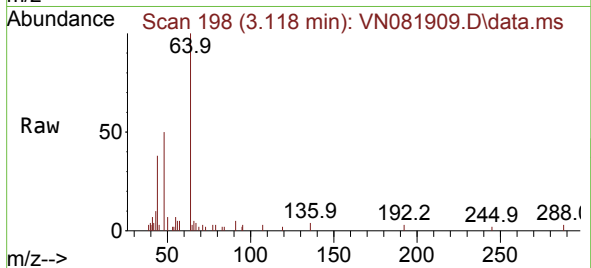




#6
Chloroethane
Concen: 0.979 ug/l
RT: 3.118 min Scan# 199
Delta R.T. -0.006 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

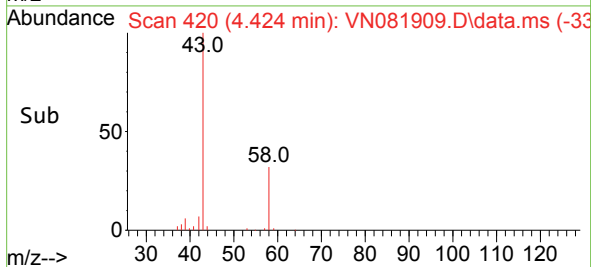
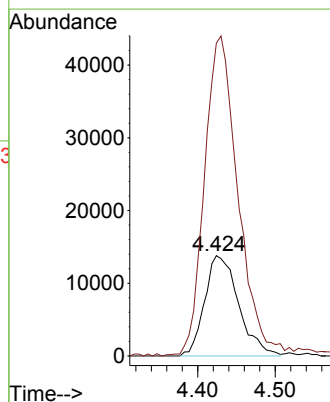
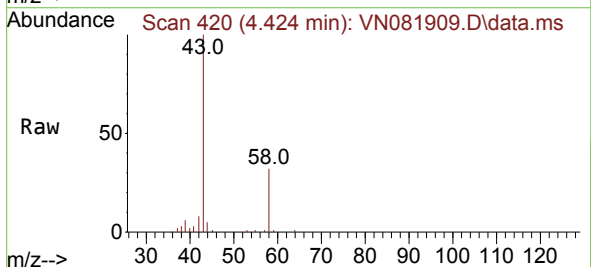
Instrument :
MSVOA_N
ClientSampleId :

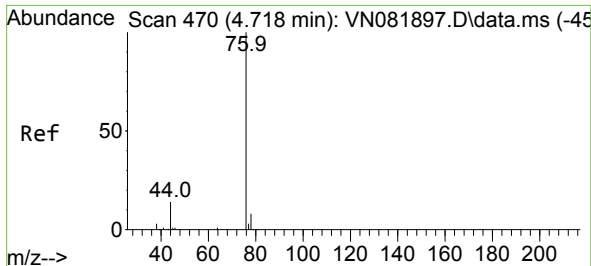
Tgt Ion: 64 Resp: 1546
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#



#15
Acetone
Concen: 119.951 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

Tgt Ion: 58 Resp: 42030
Ion Ratio Lower Upper
58 100
43 309.7 223.1 334.7

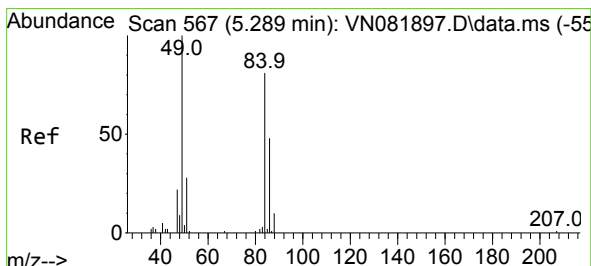
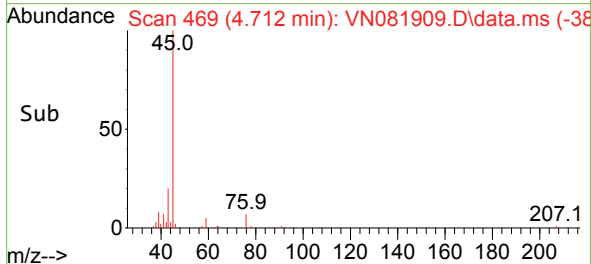
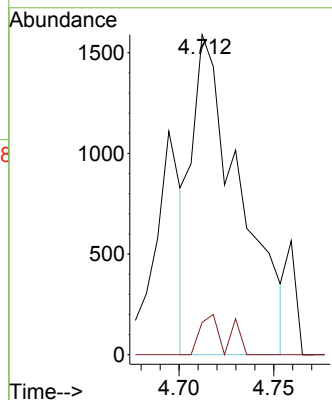
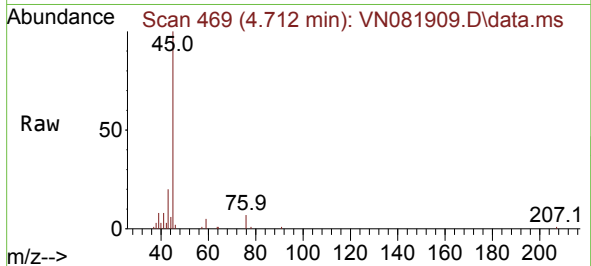




#16
Carbon Disulfide
Concen: 0.367 ug/l
RT: 4.712 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

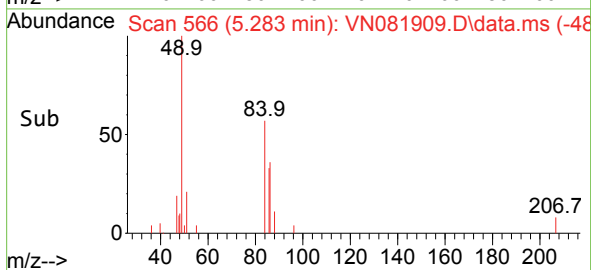
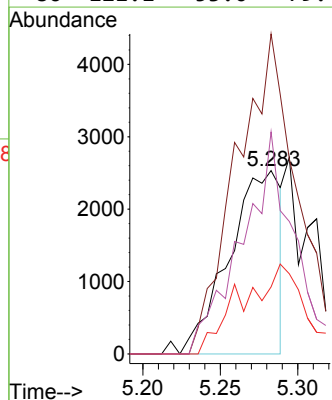
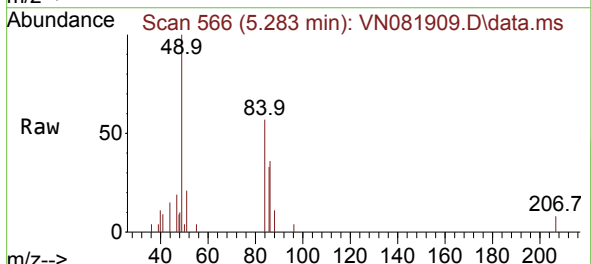
Instrument :
MSVOA_N
ClientSampleId :

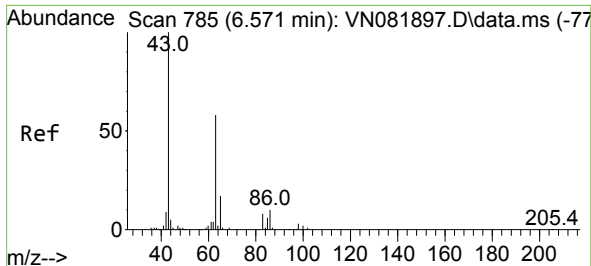
Tgt Ion: 76 Resp: 2781
Ion Ratio Lower Upper
76 100
78 12.9 6.3 9.5#



#18
Methylene Chloride
Concen: 1.884 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.006 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

Tgt Ion: 84 Resp: 5864
Ion Ratio Lower Upper
84 100
49 174.5 86.0 129.0#
51 36.6 30.0 45.0
86 121.1 53.0 79.4#





#21

1,1-Dichloroethane

Concen: 2.066 ug/l

RT: 6.583 min Scan# 71

Delta R.T. 0.012 min

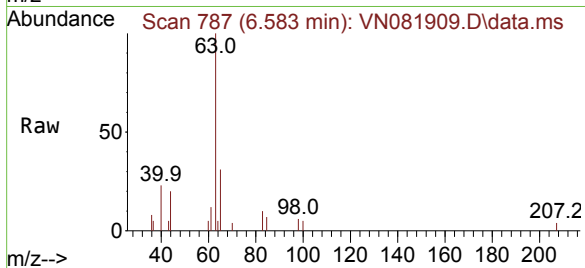
Lab File: VN081909.D

Acq: 29 Apr 2024 13:08

Instrument :

MSVOA_N

ClientSampleId :



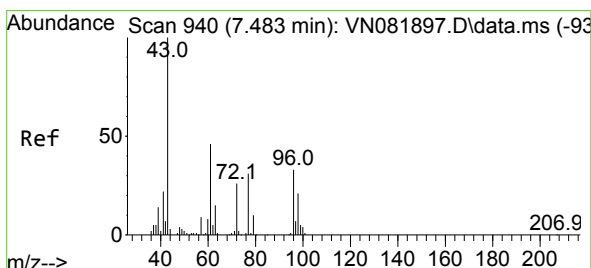
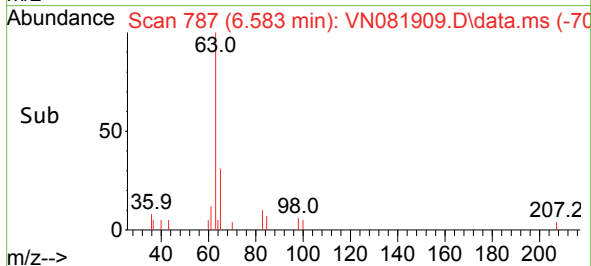
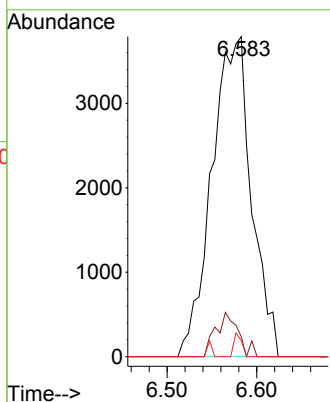
Tgt Ion: 63 Resp: 11627

Ion Ratio Lower Upper

63 100

98 6.3 4.1 12.3

100 5.0 3.0 9.0



#22

cis-1,2-Dichloroethene

Concen: 1.597 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN081909.D

Acq: 29 Apr 2024 13:08

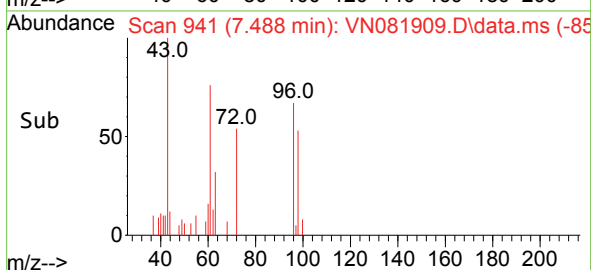
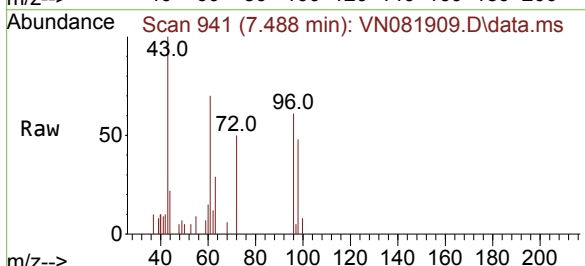
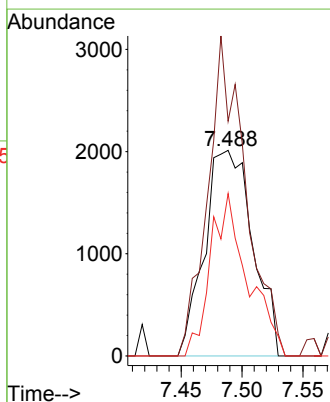
Tgt Ion: 96 Resp: 5543

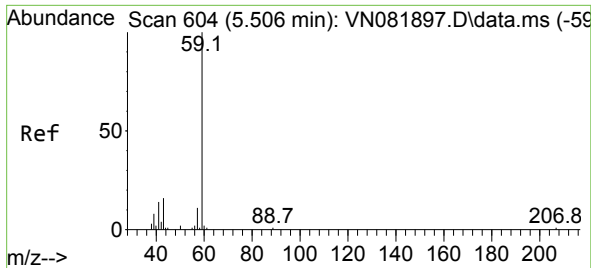
Ion Ratio Lower Upper

96 100

61 68.8 113.5 170.3#

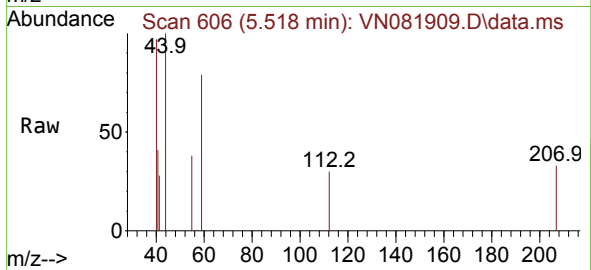
98 49.4 52.0 78.0#



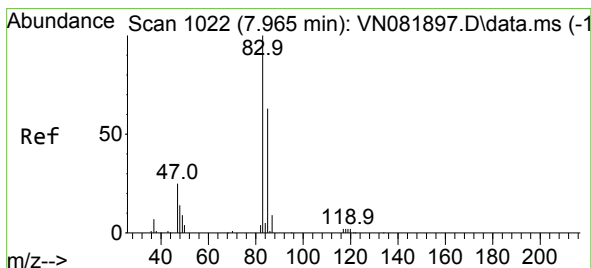
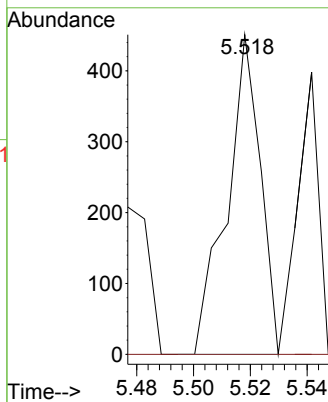
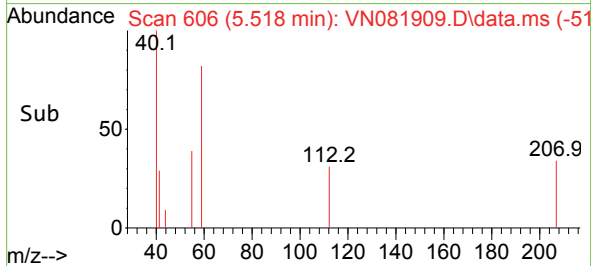


#23
tert-Butyl Alcohol
Concen: 0.573 ug/l
RT: 5.518 min Scan# 604
Delta R.T. 0.012 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

Instrument :
MSVOA_N
ClientSampleId :

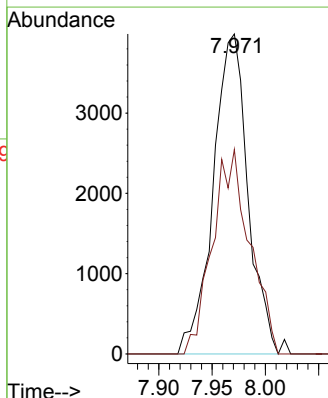
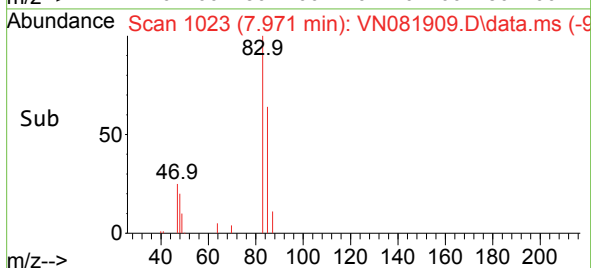
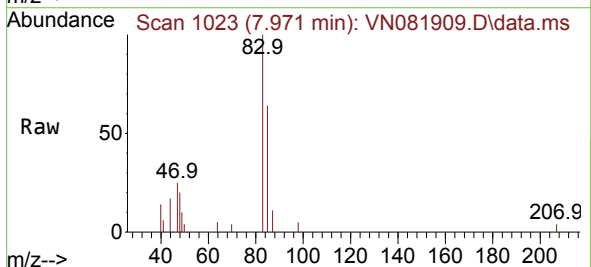


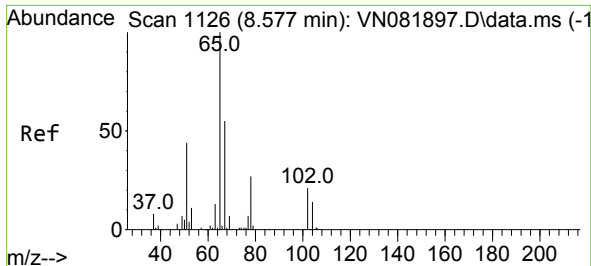
Tgt Ion: 59 Resp: 369
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.664 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

Tgt Ion: 83 Resp: 9010
Ion Ratio Lower Upper
83 100
85 63.9 50.9 76.3





#27

1,2-Dichloroethane-d4

Concen: 29.002 ug/l

RT: 8.583 min Scan# 1127

Delta R.T. 0.006 min

Lab File: VN081909.D

Acq: 29 Apr 2024 13:08

Instrument :

MSVOA_N

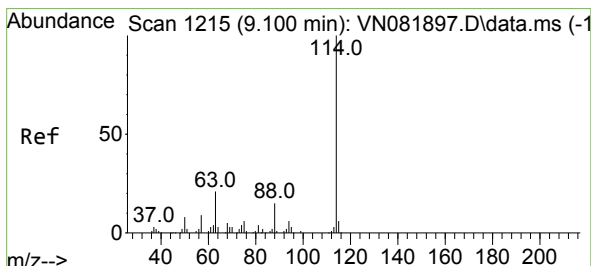
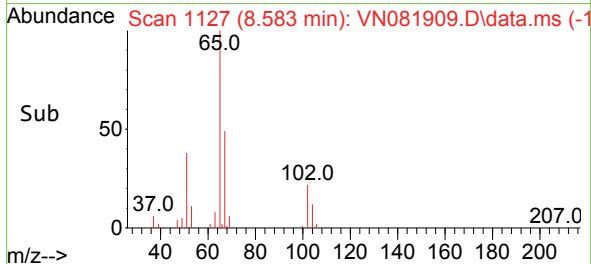
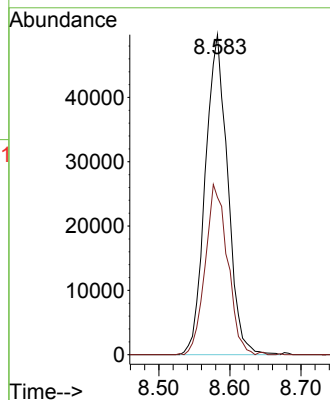
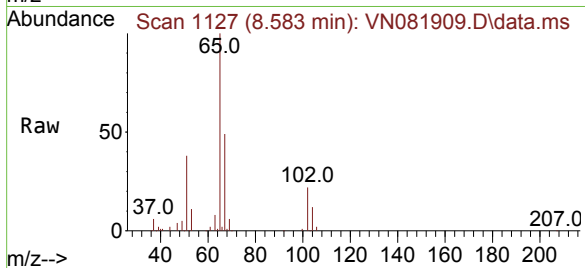
ClientSampleId :

Tgt Ion: 65 Resp: 108862

Ion Ratio Lower Upper

65 100

67 53.2 43.2 64.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. 0.006 min

Lab File: VN081909.D

Acq: 29 Apr 2024 13:08

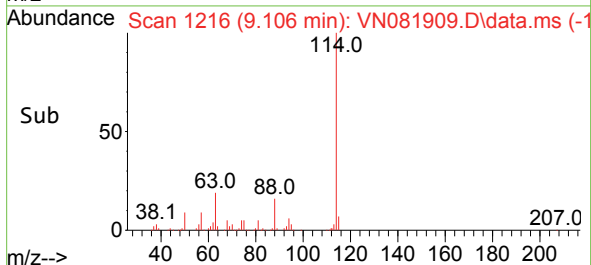
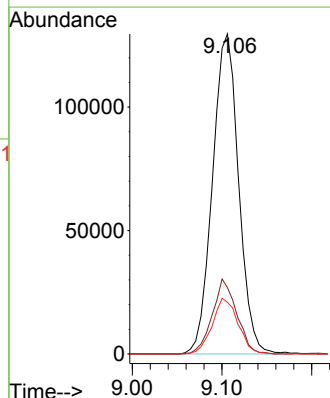
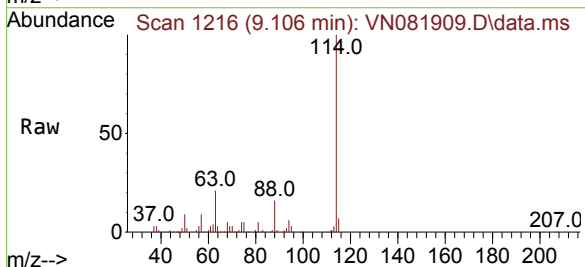
Tgt Ion: 114 Resp: 261771

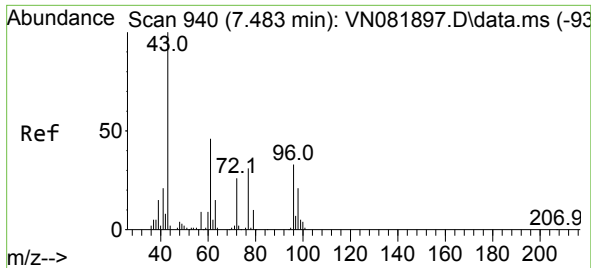
Ion Ratio Lower Upper

114 100

63 21.9 15.9 23.9

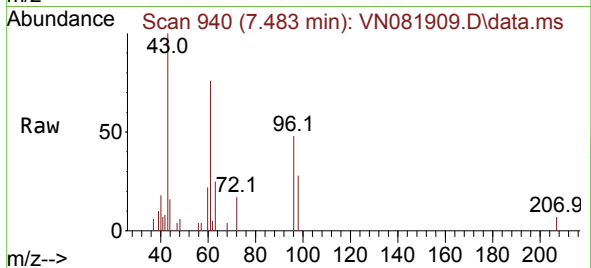
88 17.2 12.7 19.1



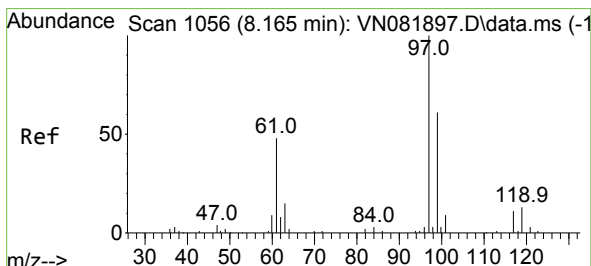
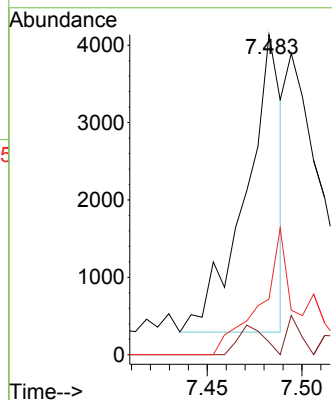
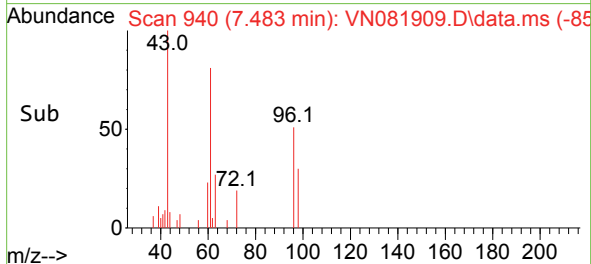


#30
2-Butanone
Concen: 2.518 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

Instrument :
MSVOA_N
ClientSampleId :

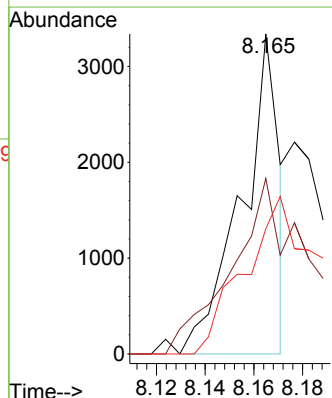
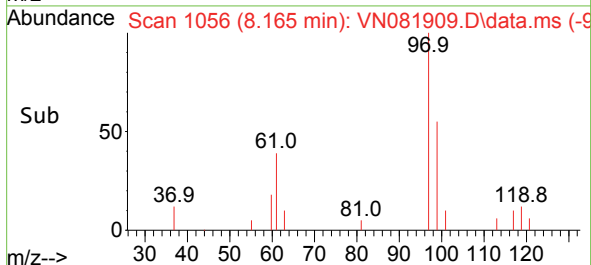
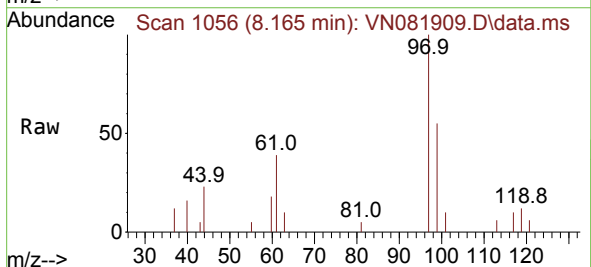


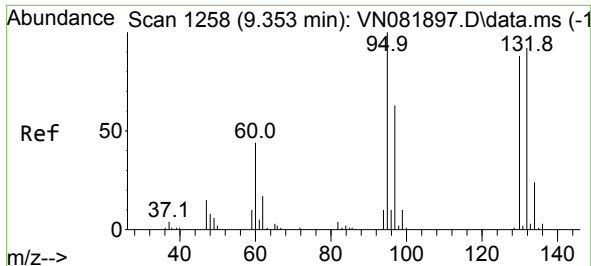
Tgt Ion: 43 Resp: 5058
Ion Ratio Lower Upper
43 100
57 5.1 6.7 10.1#
72 35.7 24.0 36.0



#32
1,1,1-Trichloroethane
Concen: 0.802 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

Tgt Ion: 97 Resp: 3595
Ion Ratio Lower Upper
97 100
99 68.5 51.0 76.4
61 23.5 33.8 50.8#





#37

Trichloroethene

Concen: 0.263 ug/l

RT: 9.353 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN081909.D

Acq: 29 Apr 2024 13:08

Instrument :

MSVOA_N

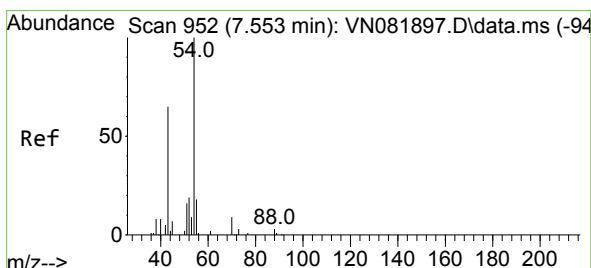
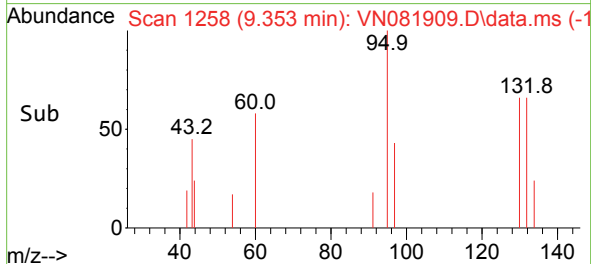
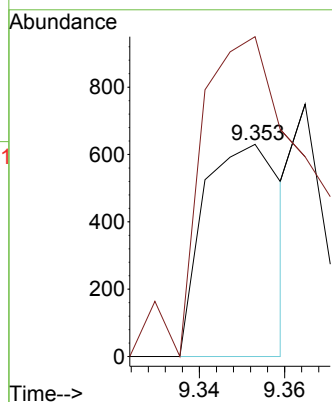
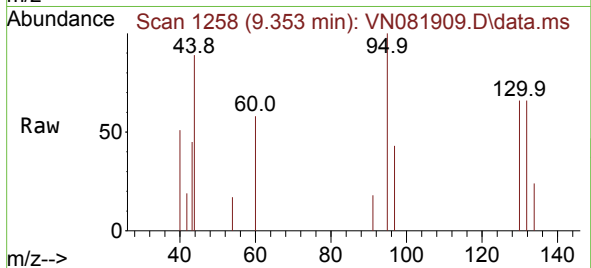
ClientSampleId :

Tgt Ion:130 Resp: 800

Ion Ratio Lower Upper

130 100

95 150.8 80.2 120.4#



#43

Ethyl Acetate

Concen: 0.294 ug/l

RT: 7.559 min Scan# 953

Delta R.T. 0.006 min

Lab File: VN081909.D

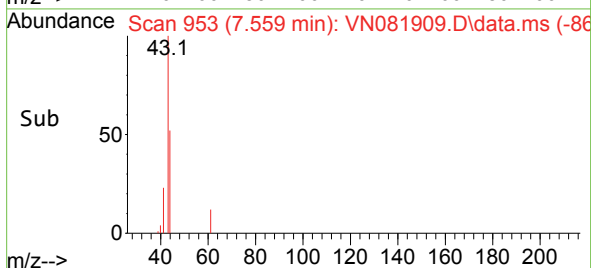
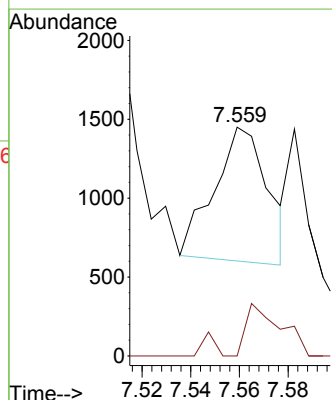
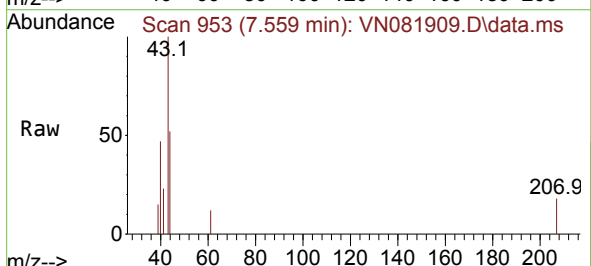
Acq: 29 Apr 2024 13:08

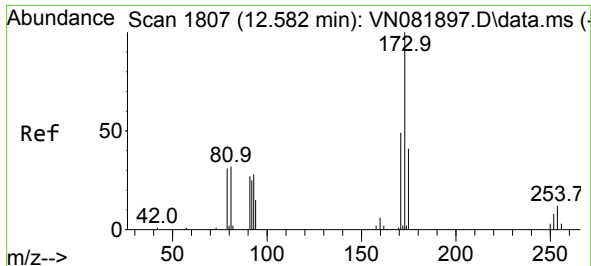
Tgt Ion: 43 Resp: 1289

Ion Ratio Lower Upper

43 100

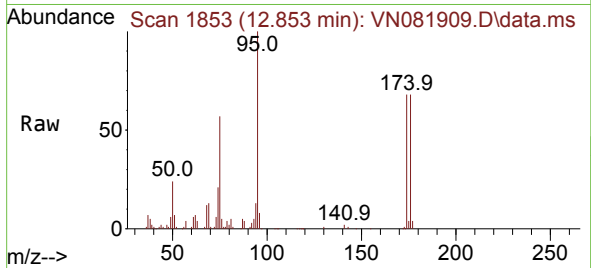
45 25.5 10.6 15.8#



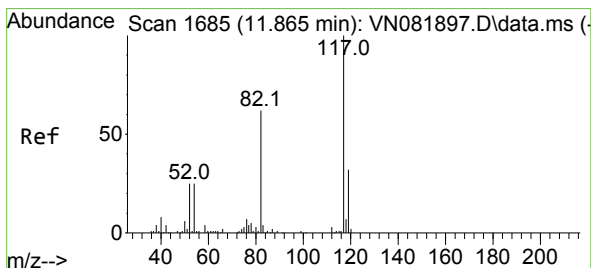
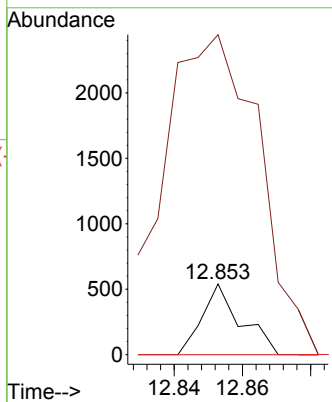
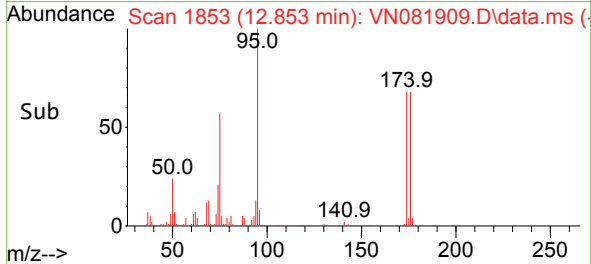


#56
Bromoform
Concen: 0.232 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.270 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

Instrument :
MSVOA_N
ClientSampleId :

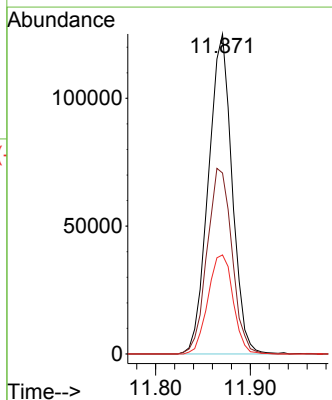
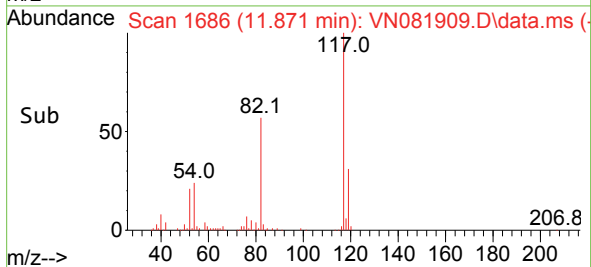
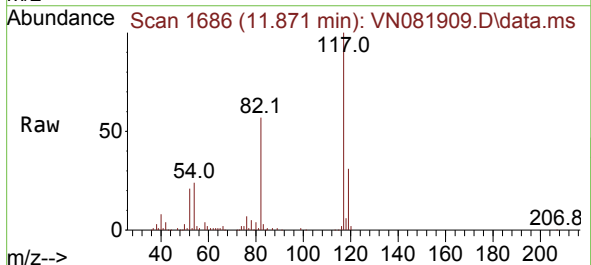


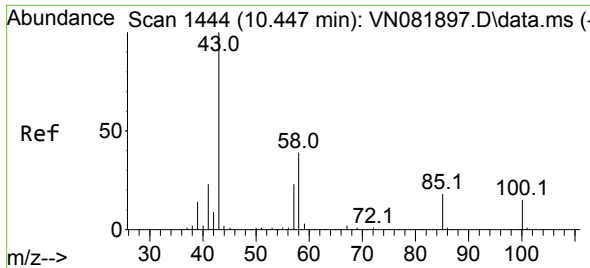
Tgt Ion:173 Resp: 427
Ion Ratio Lower Upper
173 100
175 1136.1 40.0 60.0#
254 0.0 8.3 12.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

Tgt Ion:117 Resp: 217524
Ion Ratio Lower Upper
117 100
82 60.8 46.6 69.8
119 32.8 25.4 38.2

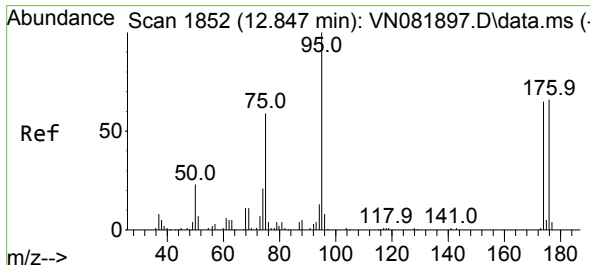
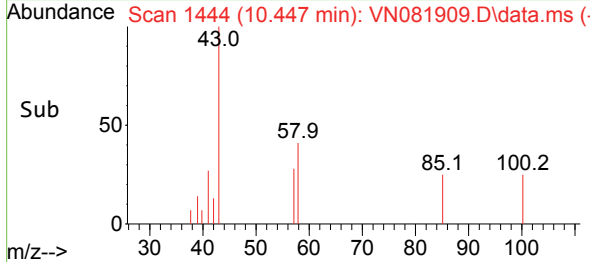
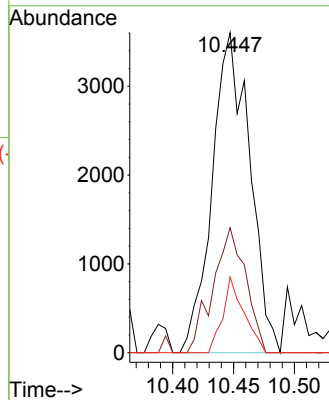
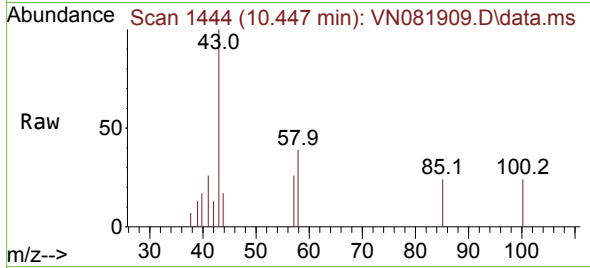




#58
 4-Methyl-2-Pentanone
 Concen: 1.832 ug/l
 RT: 10.447 min Scan# 1444
 Delta R.T. -0.000 min
 Lab File: VN081909.D
 Acq: 29 Apr 2024 13:08

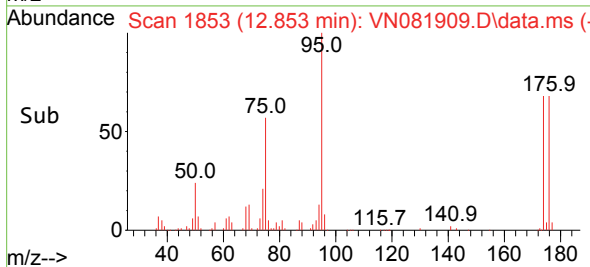
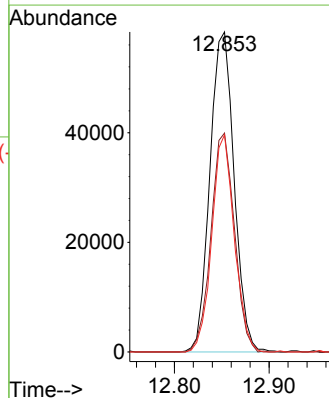
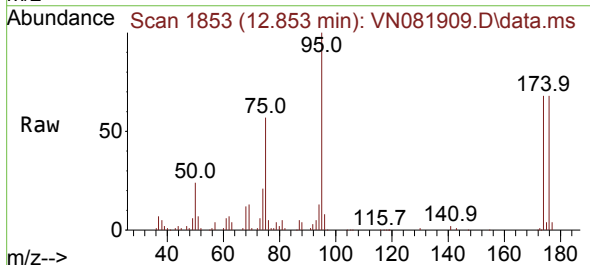
Instrument :
 MSVOA_N
 ClientSampleId :

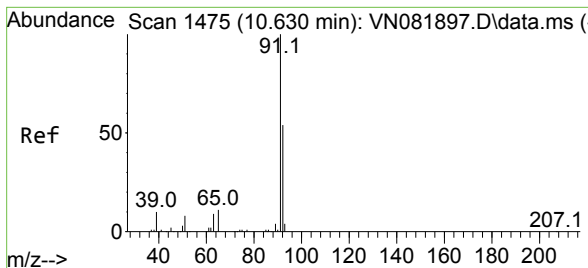
Tgt Ion: 43	Resp: 7737
Ion Ratio	Lower Upper
43 100	
58 34.2	36.5 54.7#
85 13.4	19.5 29.3#



#60
 4-Bromofluorobenzene
 Concen: 28.642 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. 0.006 min
 Lab File: VN081909.D
 Acq: 29 Apr 2024 13:08

Tgt Ion: 95	Resp: 103685
Ion Ratio	Lower Upper
95 100	
174 66.3	60.5 90.7
176 63.1	57.8 86.6





#62

Toluene

Concen: 0.862 ug/l

RT: 10.629 min Scan# 1475

Delta R.T. -0.000 min

Lab File: VN081909.D

Acq: 29 Apr 2024 13:08

Instrument :

MSVOA_N

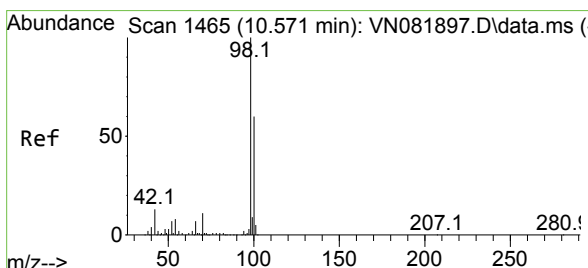
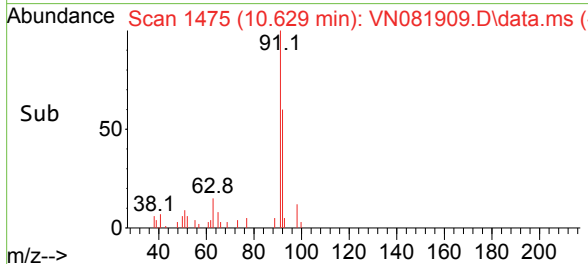
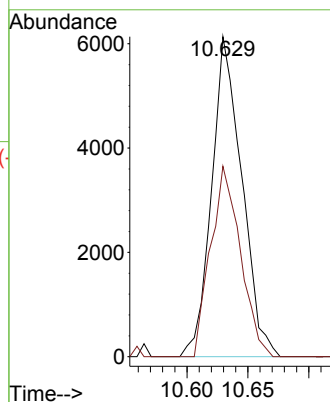
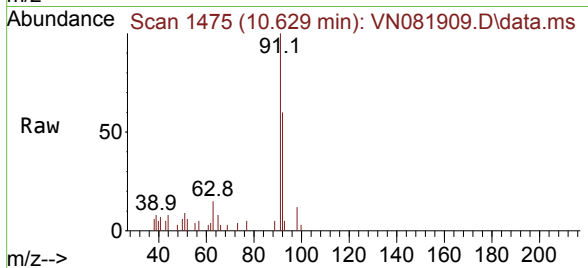
ClientSampleId :

Tgt Ion: 91 Resp: 10555

Ion Ratio Lower Upper

91 100

92 58.9 46.5 69.7



#63

Toluene-d8

Concen: 30.637 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN081909.D

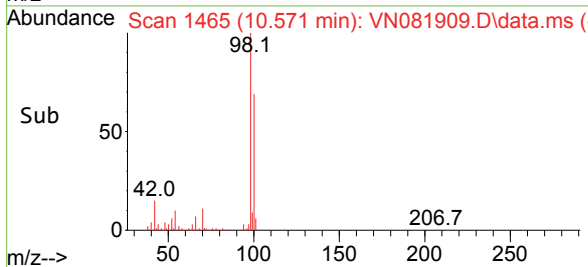
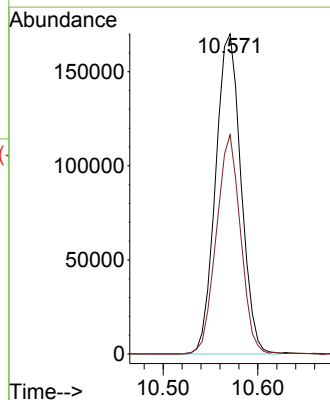
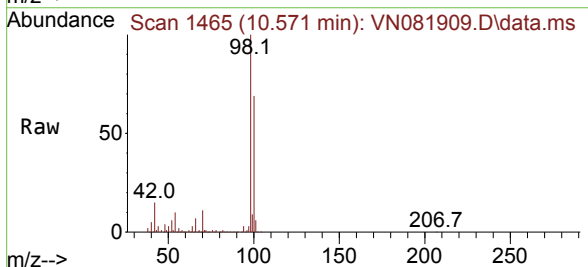
Acq: 29 Apr 2024 13:08

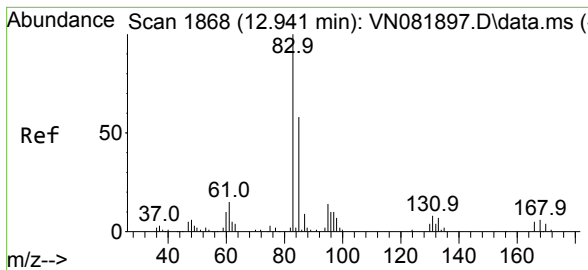
Tgt Ion: 98 Resp: 316493

Ion Ratio Lower Upper

98 100

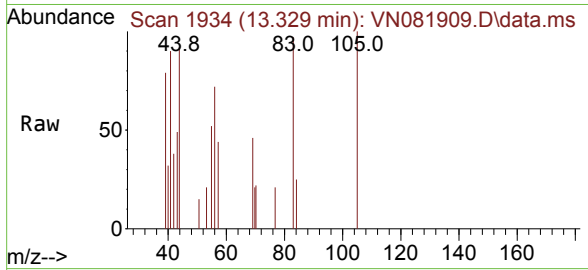
100 65.2 52.7 79.1



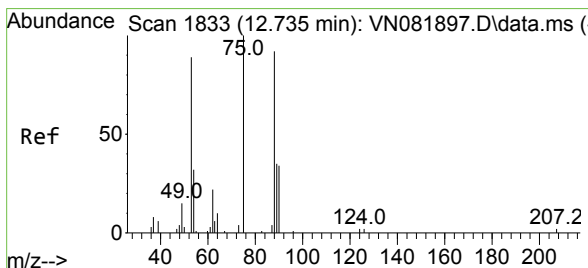
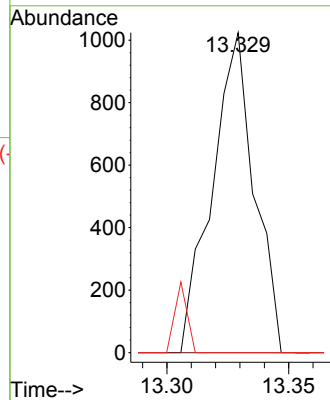
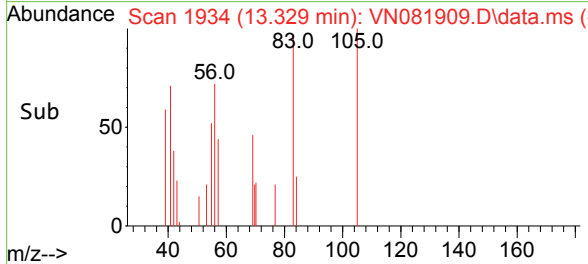


#71
1,1,2,2-Tetrachloroethane
Concen: 0.343 ug/l
RT: 13.329 min Scan# 1934
Delta R.T. 0.388 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08

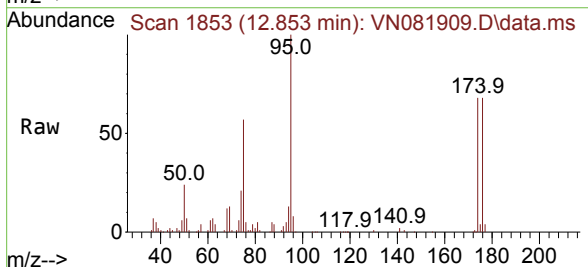
Instrument :
MSVOA_N
ClientSampleId :



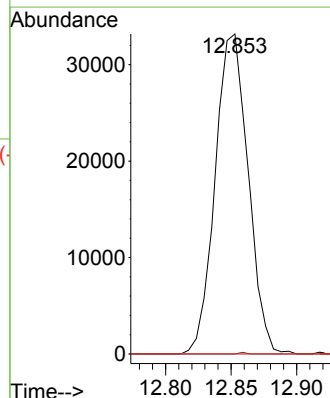
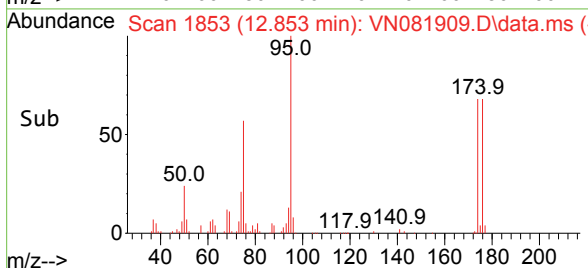
Tgt Ion: 83 Resp: 1235
Ion Ratio Lower Upper
83 100
131 0.0 5.2 15.6#
85 5.1 32.3 96.8#

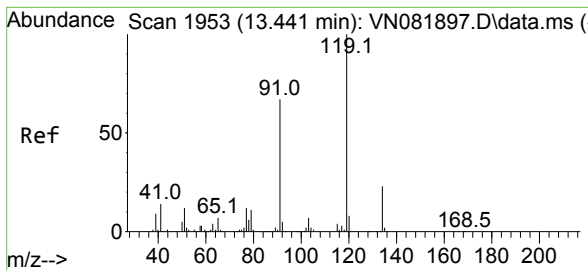


#77
t-1,4-Dichloro-2-butene
Concen: 38.802 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.118 min
Lab File: VN081909.D
Acq: 29 Apr 2024 13:08



Tgt Ion: 75 Resp: 58073
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#





#79

tert-butylbenzene

Concen: 1.462 ug/l

RT: 13.729 min Scan# 20

Delta R.T. 0.288 min

Lab File: VN081909.D

Acq: 29 Apr 2024 13:08

Instrument :

MSVOA_N

ClientSampleId :

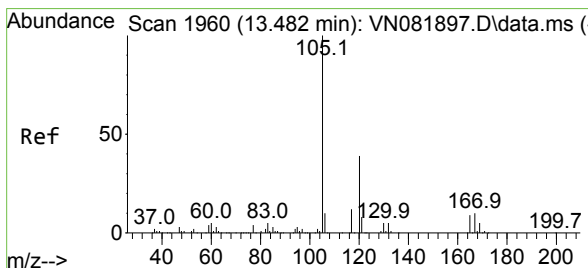
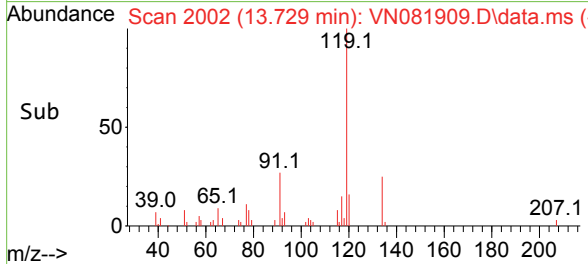
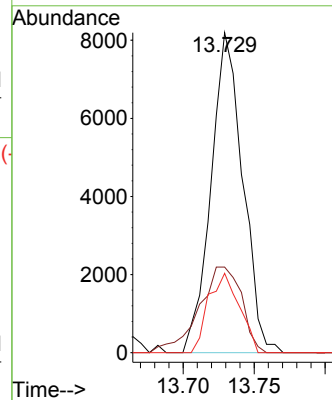
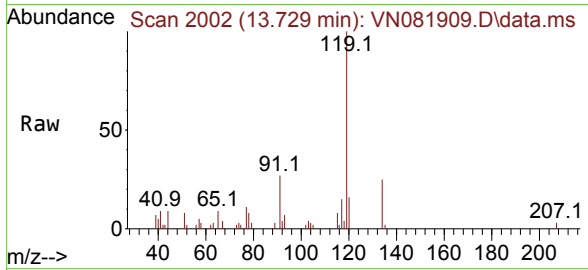
Tgt Ion:119 Resp: 12734

Ion Ratio Lower Upper

119 100

91 35.9 0.0 138.8

134 24.1 0.0 48.6



#80

1,2,4-Trimethylbenzene

Concen: 0.442 ug/l

RT: 13.488 min Scan# 1961

Delta R.T. 0.006 min

Lab File: VN081909.D

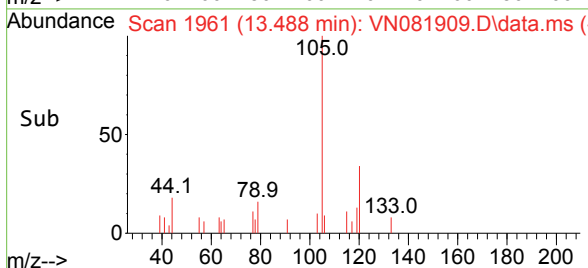
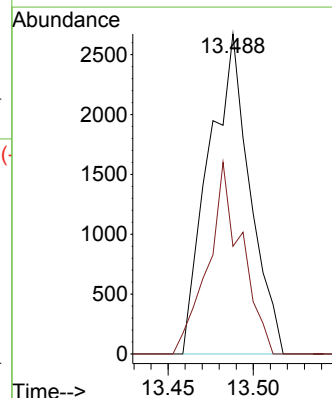
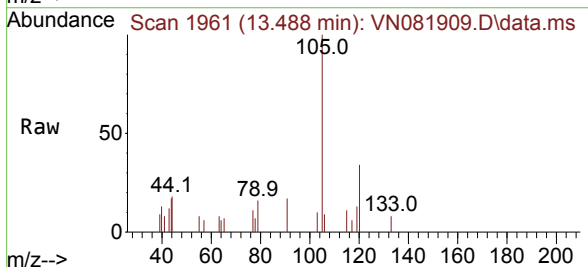
Acq: 29 Apr 2024 13:08

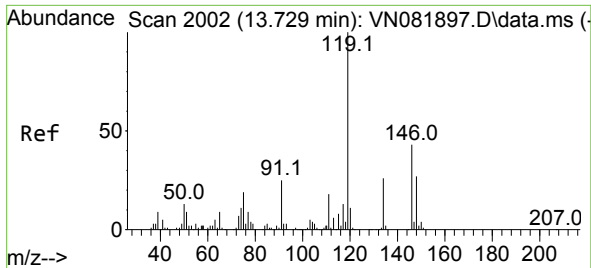
Tgt Ion:105 Resp: 4491

Ion Ratio Lower Upper

105 100

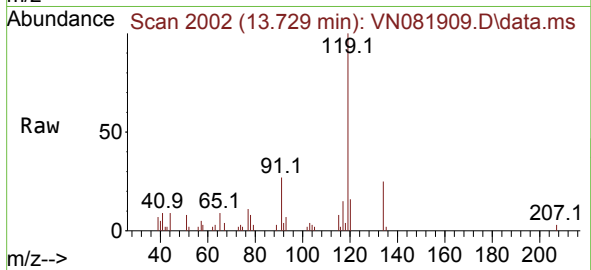
120 48.9 0.0 86.8





#82
 p-Isopropyltoluene
 Concen: 1.319 ug/l
 RT: 13.729 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN081909.D
 Acq: 29 Apr 2024 13:08

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion:	119	Resp:	12734
Ion	Ratio	Lower	Upper
119	100		
134	24.1	0.0	49.2
91	35.9	0.0	48.8

