

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080322\
 Data File : VN073717.D
 Acq On : 03 Aug 2022 17:28
 Operator : JC\MD
 Sample : N3972-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPN-9

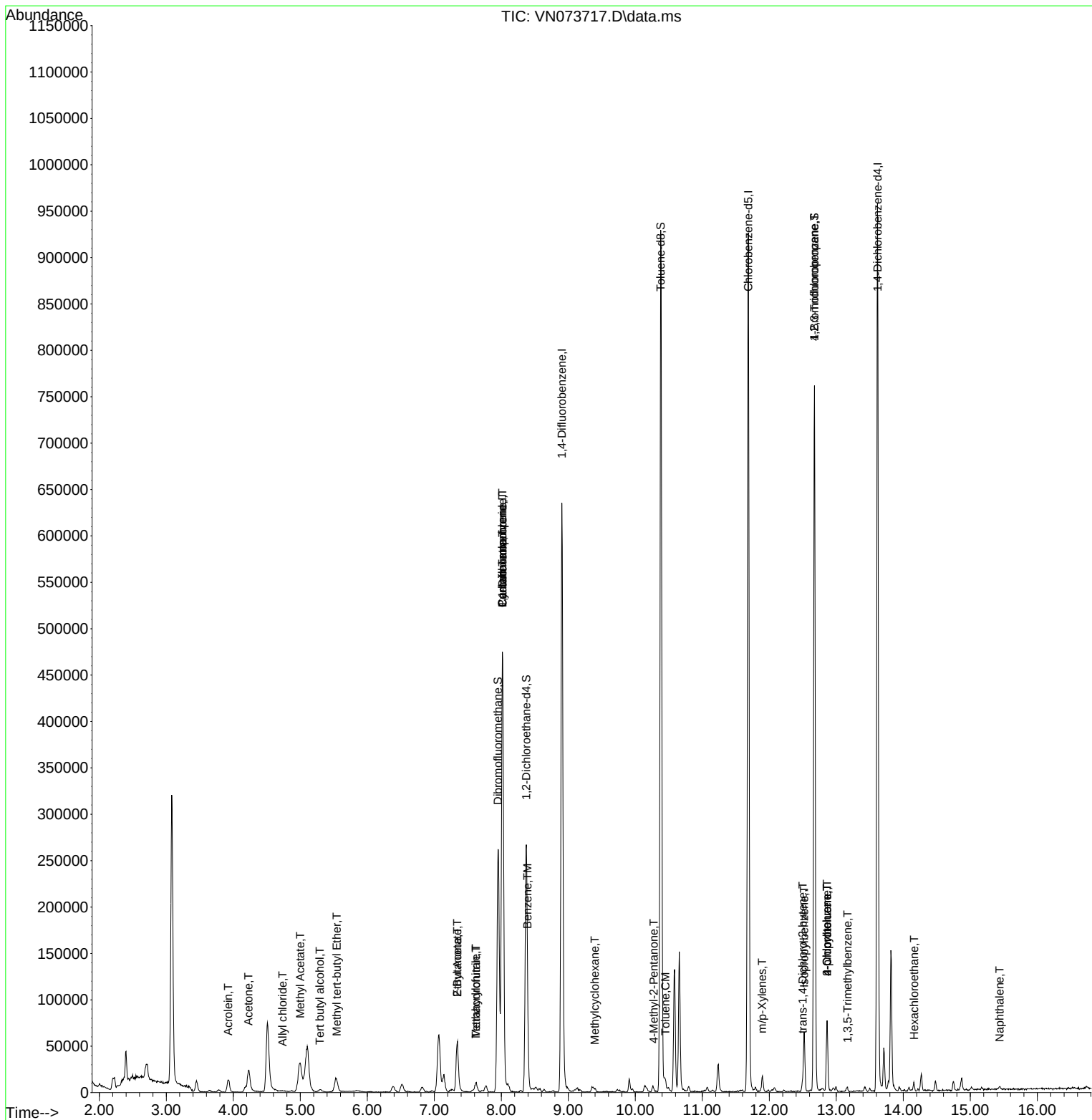
Quant Time: Aug 04 05:36:32 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 29 02:20:25 2022
 Response via : Initial Calibration

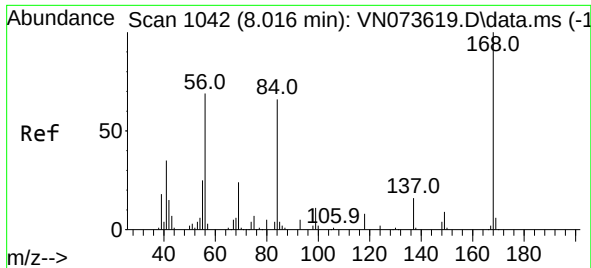
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.016	168	355960	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	575082	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	556275	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.616	152	264824	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.375	65	216121	49.821	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.640%
35) Dibromofluoromethane	7.951	113	196445	54.400	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	108.800%
50) Toluene-d8	10.380	98	654532	46.060	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.120%
62) 4-Bromofluorobenzene	12.674	95	248724	51.988	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.980%
Target Compounds						
					Qvalue	
3) Chloromethane	2.269	50	855	Below Cal	#	85
6) Chloroethane	2.952	64	2001	Below Cal	#	42
11) Tert butyl alcohol	5.293	59	4352	4.652	ug/l #	72
13) Acrolein	3.922	56	459	0.495	ug/l #	1
14) Allyl chloride	4.734	41	1247	0.231	ug/l #	24
16) Acetone	4.228	43	45598	19.570	ug/l	99
18) Methyl Acetate	4.998	43	33912	5.850	ug/l #	48
19) Methyl tert-butyl Ether	5.545	73	2435	0.211	ug/l #	1
20) Methylene Chloride	5.016	84	1189	Below Cal	#	65
25) 2-Butanone	7.345	43	86456	23.894	ug/l #	45
29) Tetrahydrofuran	7.622	42	7358	3.216	ug/l	94
31) Cyclohexane	8.016	56	23129	3.581	ug/l #	68
36) 1,1-Dichloropropene	8.016	75	26297	5.109	ug/l #	50
37) Ethyl Acetate	7.345	43	86456	12.755	ug/l	99
38) Carbon Tetrachloride	8.016	117	34118	6.527	ug/l #	18
39) Methylcyclohexane	9.398	83	2163	0.352	ug/l	91
40) Benzene	8.392	78	21894	1.310	ug/l	96
41) Methacrylonitrile	7.622	41	4883	1.592	ug/l #	41
51) 4-Methyl-2-Pentanone	10.275	43	1735	0.264	ug/l #	60
52) Toluene	10.451	92	4587	0.449	ug/l	99
68) m/p-Xylenes	11.892	106	5107	0.672	ug/l	97
73) Isopropylbenzene	12.522	105	38264	1.974	ug/l	100
76) 1,2,3-Trichloropropane	12.674	75	129839	25.162	ug/l #	1
78) n-propylbenzene	12.863	91	60685	2.782	ug/l	97
79) 2-Chlorotoluene	12.863	91	60685	4.458	ug/l #	40
80) 1,3,5-Trimethylbenzene	13.169	105	3714	0.233	ug/l	71
81) trans-1,4-Dichloro-2-b...	12.498	75	4813	2.355	ug/l #	10
82) 4-Chlorotoluene	12.863	91	60685	4.703	ug/l #	40
90) Hexachloroethane	14.163	117	651	0.213	ug/l #	9
95) Naphthalene	15.439	128	3260	0.217	ug/l #	90

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

Quant Time: Aug 04 05:36:32 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N072822W.M
Quant Title : SW846 8260
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Response via : Initial Calibration

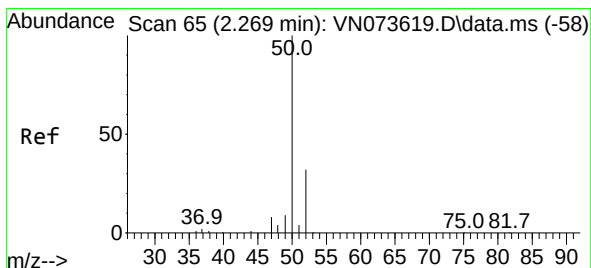
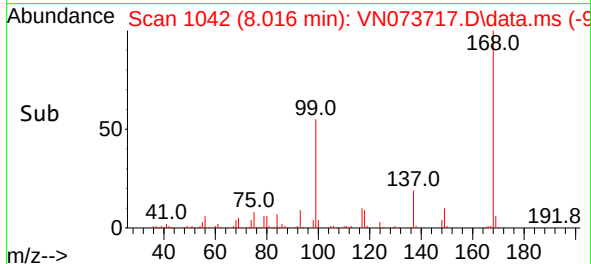
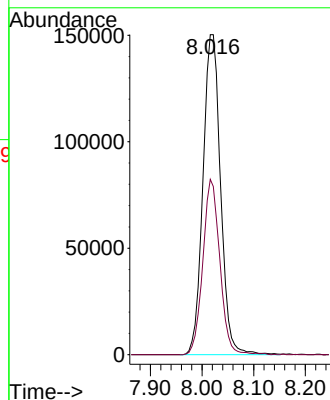
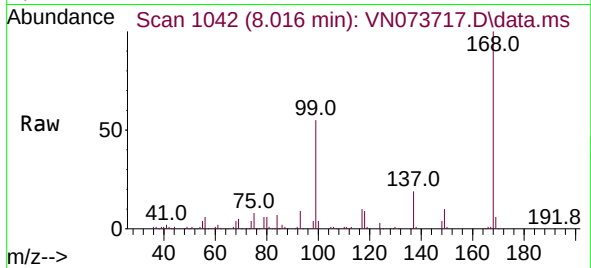




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

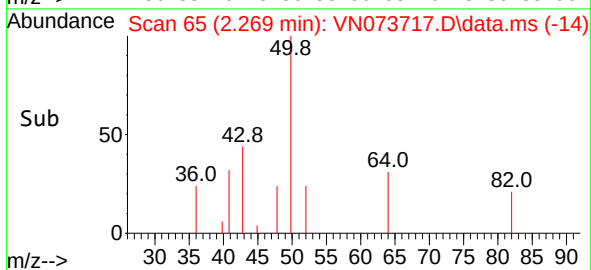
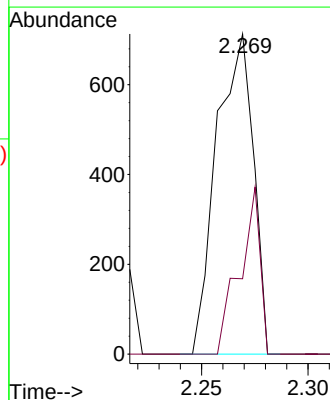
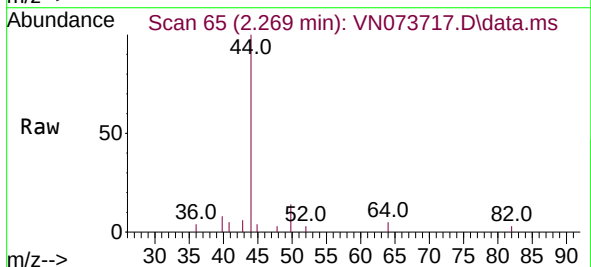
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

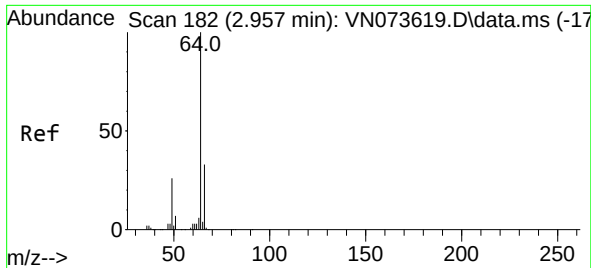
Tgt Ion:168 Resp: 355960
Ion Ratio Lower Upper
168 100
99 54.8 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 50 Resp: 855
Ion Ratio Lower Upper
50 100
52 23.6 25.7 38.5#

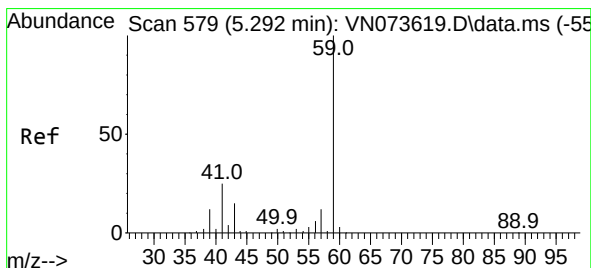
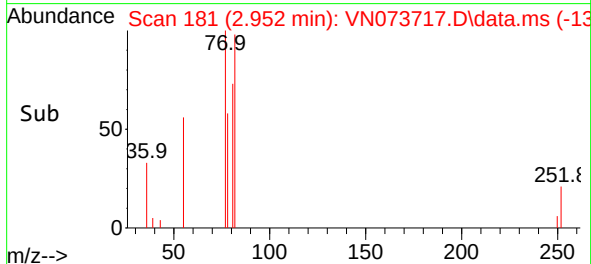
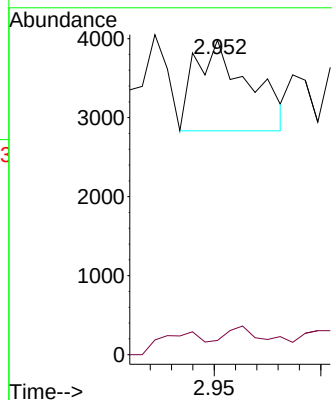
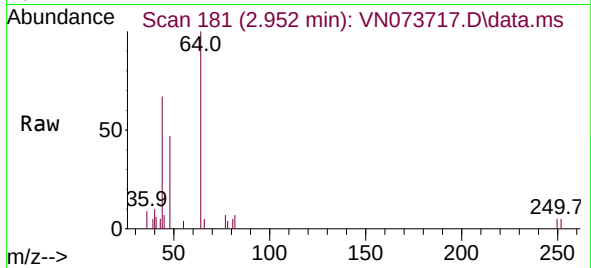




#6
Chloroethane
Concen: Below Cal
RT: 2.952 min Scan# 11
Delta R.T. -0.005 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

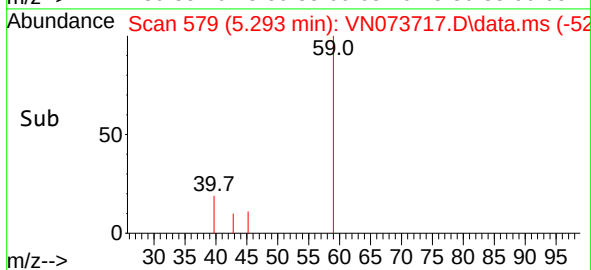
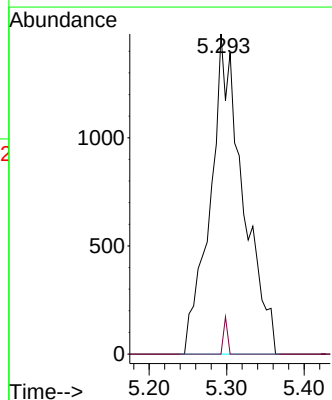
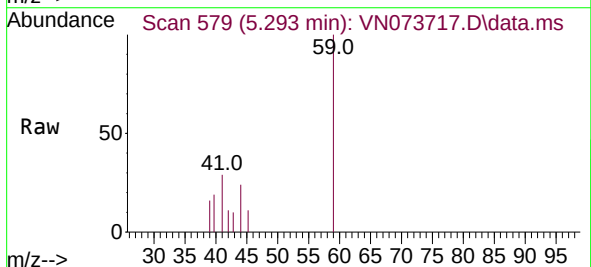
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

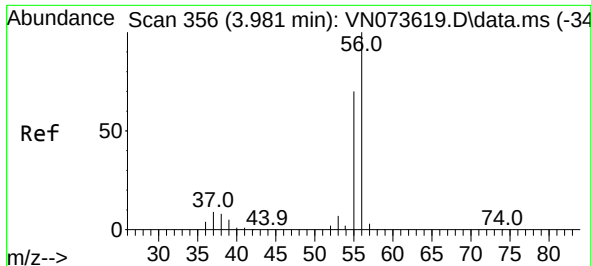
Tgt Ion: 64 Resp: 2001
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 4.652 ug/l
RT: 5.293 min Scan# 579
Delta R.T. 0.001 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 59 Resp: 4352
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#13

Acrolein

Concen: 0.495 ug/l

RT: 3.922 min Scan# 34

Delta R.T. -0.059 min

Lab File: VN073717.D

Acq: 03 Aug 2022 17:28

Instrument :

MSVOA_N

ClientSampleId :

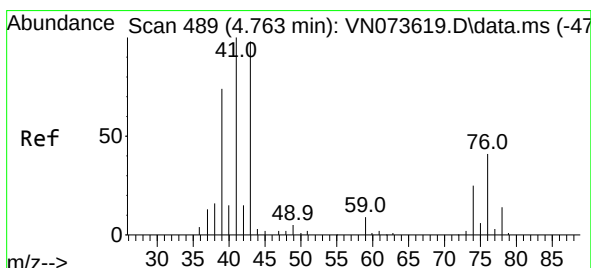
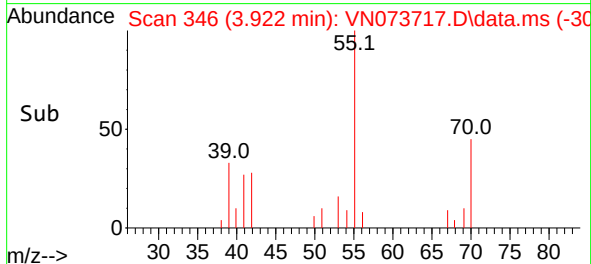
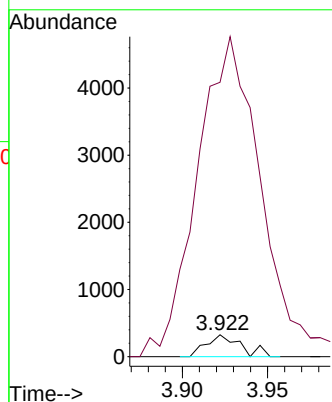
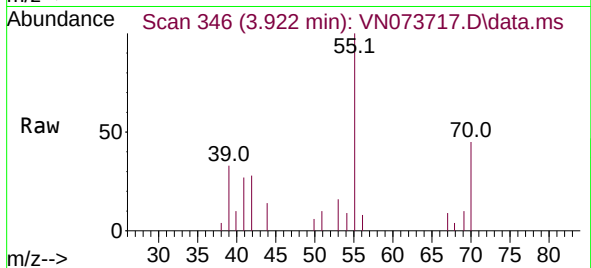
SPN-9

Tgt Ion: 56 Resp: 459

Ion Ratio Lower Upper

56 100

55 2693.9 54.8 82.2#



#14

Allyl chloride

Concen: 0.231 ug/l

RT: 4.734 min Scan# 484

Delta R.T. -0.029 min

Lab File: VN073717.D

Acq: 03 Aug 2022 17:28

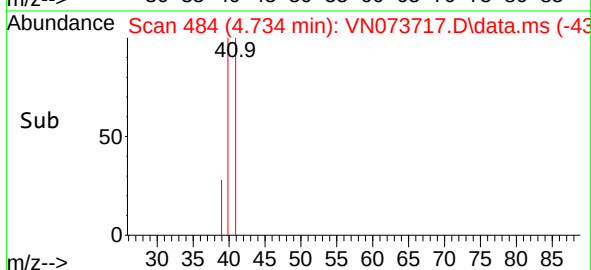
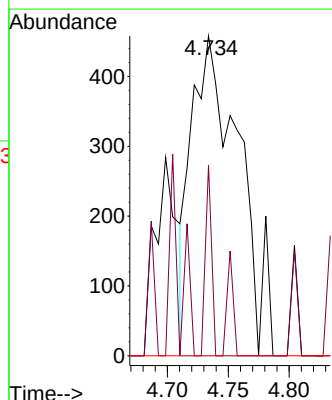
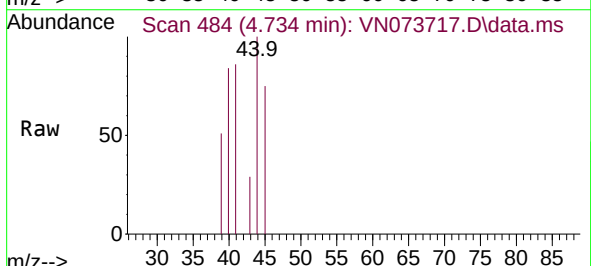
Tgt Ion: 41 Resp: 1247

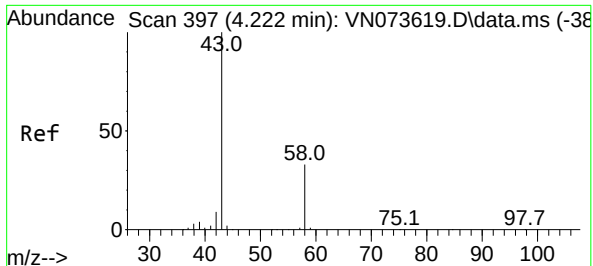
Ion Ratio Lower Upper

41 100

39 0.0 53.2 79.8#

76 0.0 29.9 44.9#

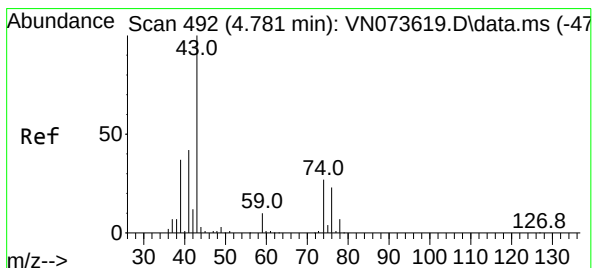
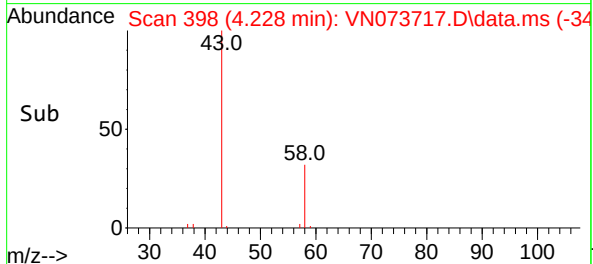
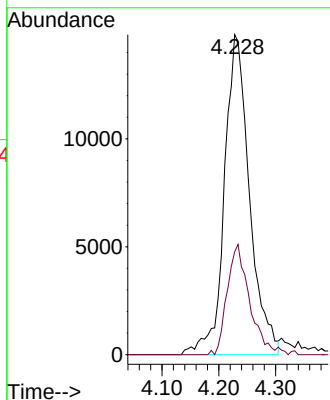
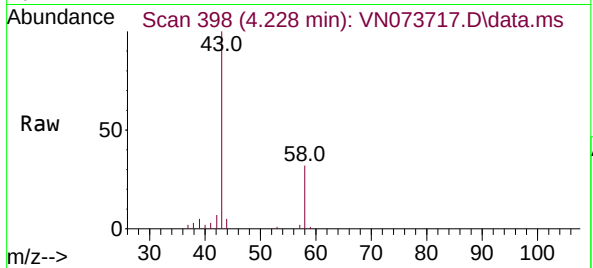




#16
Acetone
Concen: 19.570 ug/l
RT: 4.228 min Scan# 397
Delta R.T. 0.006 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

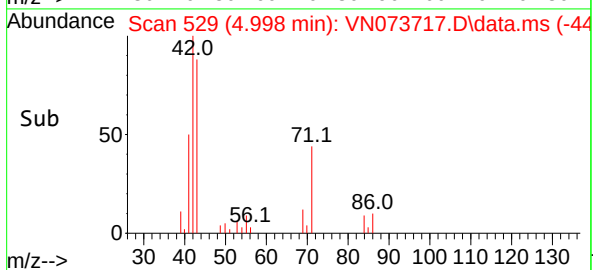
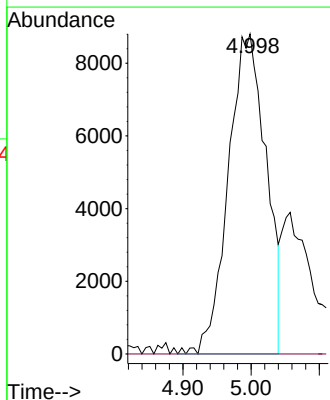
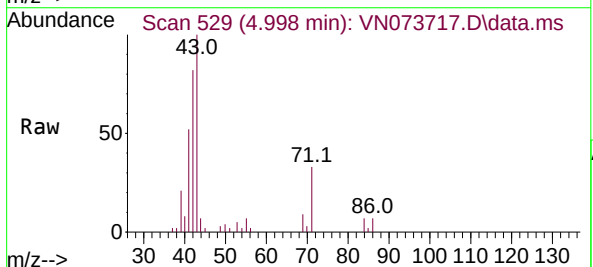
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

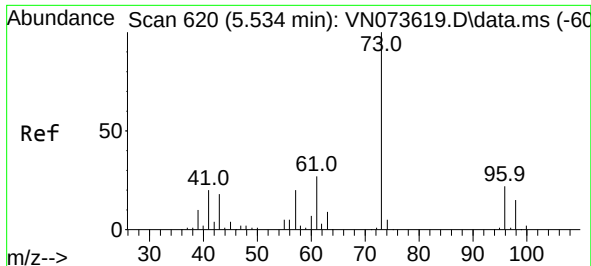
Tgt Ion: 43 Resp: 45598
Ion Ratio Lower Upper
43 100
58 32.1 26.0 39.0



#18
Methyl Acetate
Concen: 5.850 ug/l
RT: 4.998 min Scan# 529
Delta R.T. 0.218 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 43 Resp: 33912
Ion Ratio Lower Upper
43 100
74 0.0 21.6 32.4#

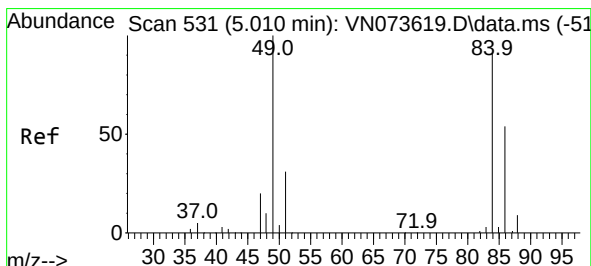
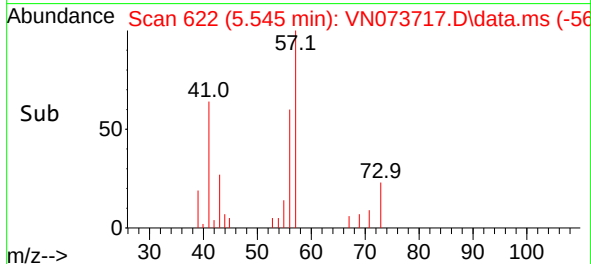
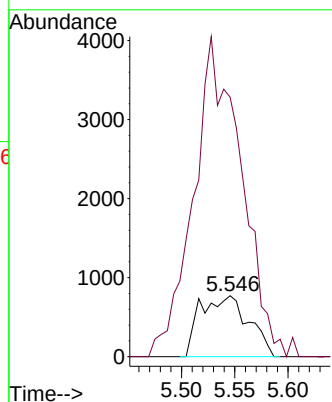
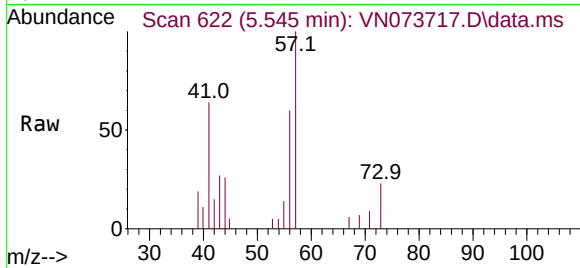




#19
Methyl tert-butyl Ether
Concen: 0.211 ug/l
RT: 5.545 min Scan# 61
Delta R.T. 0.012 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

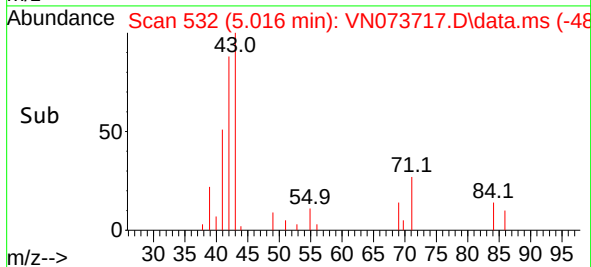
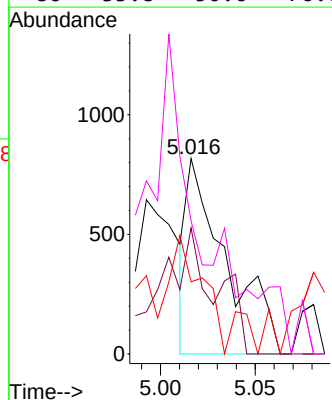
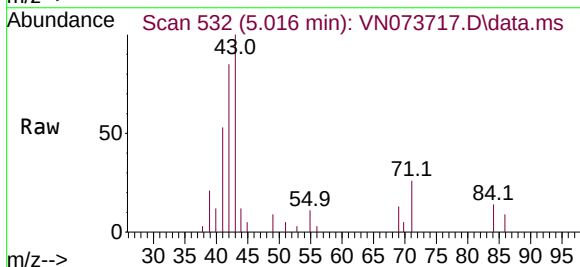
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ClientSampleId :
SPN-9

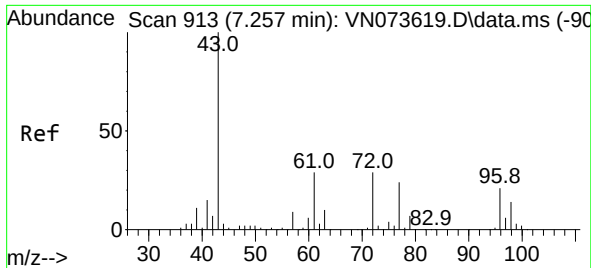
Tgt Ion: 73 Resp: 2435
Ion Ratio Lower Upper
73 100
57 397.1 17.6 26.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 5.016 min Scan# 532
Delta R.T. 0.006 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 84 Resp: 1189
Ion Ratio Lower Upper
84 100
49 64.5 88.3 132.5#
51 37.0 28.2 42.2
86 33.8 50.6 76.0#

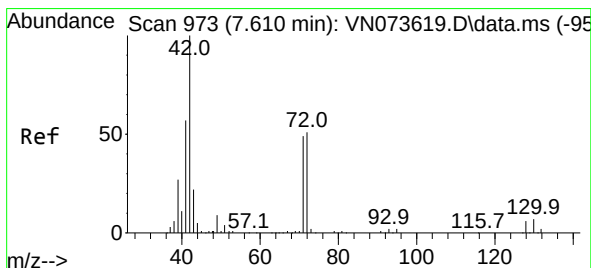
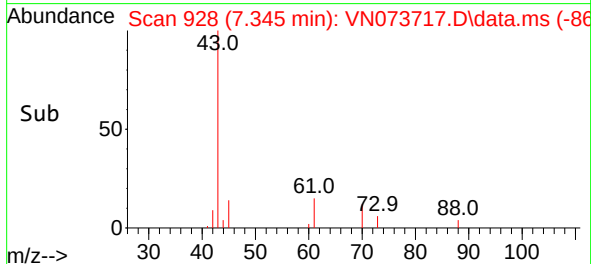
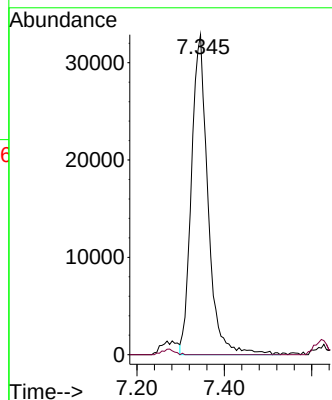
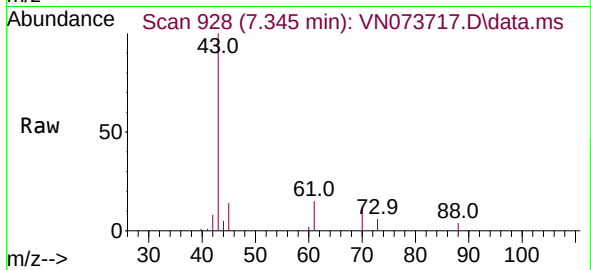




#25
2-Butanone
Concen: 23.894 ug/l
RT: 7.345 min Scan# 913
Delta R.T. 0.088 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

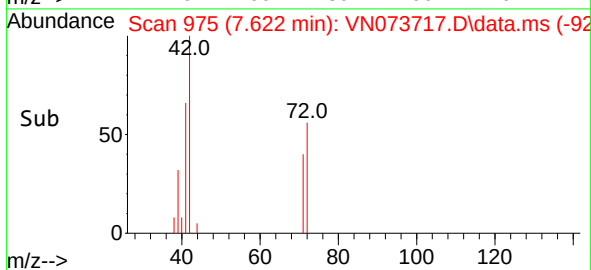
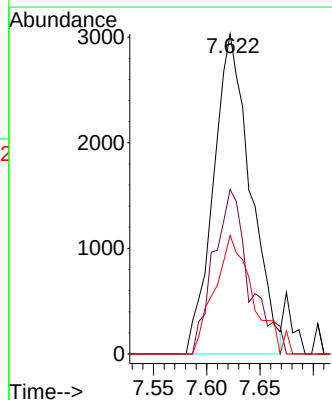
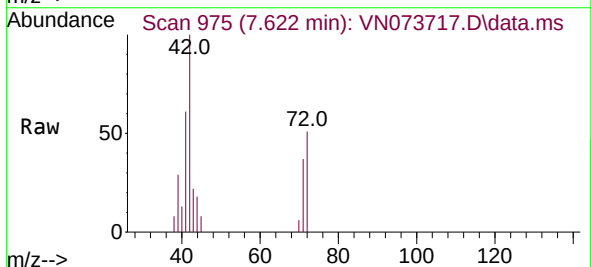
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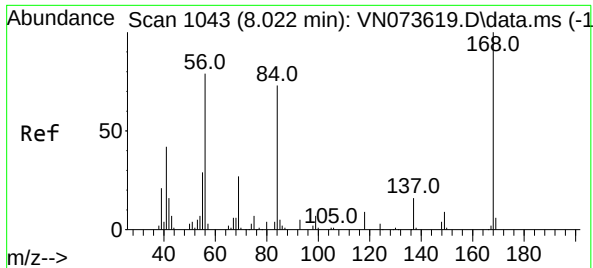
Tgt Ion: 43 Resp: 86456
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#



#29
Tetrahydrofuran
Concen: 3.216 ug/l
RT: 7.622 min Scan# 975
Delta R.T. 0.012 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 42 Resp: 7358
Ion Ratio Lower Upper
42 100
72 49.8 39.7 59.5
71 38.1 36.6 55.0

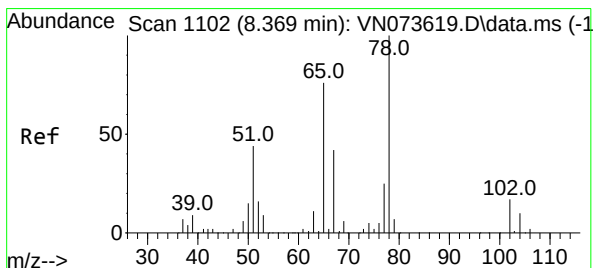
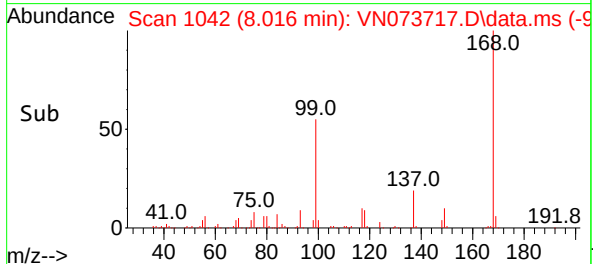
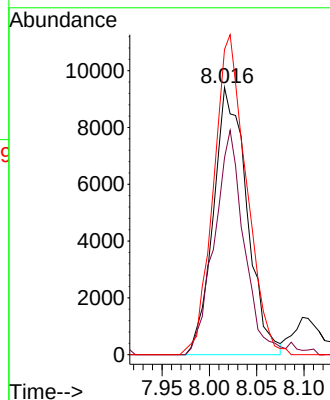
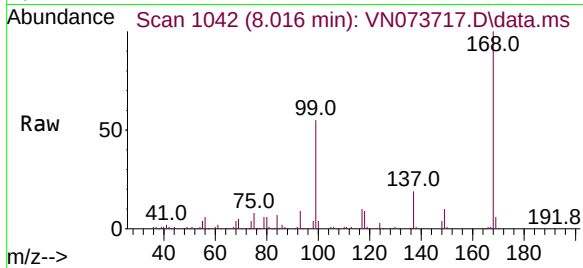




#31
Cyclohexane
Concen: 3.581 ug/l
RT: 8.016 min Scan# 1103
Delta R.T. -0.006 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

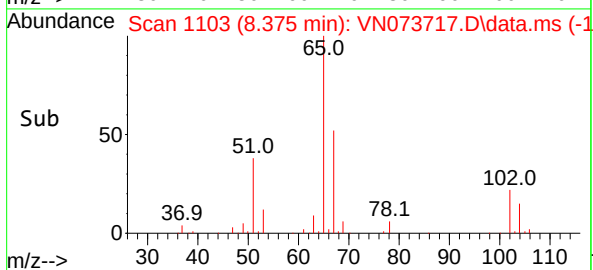
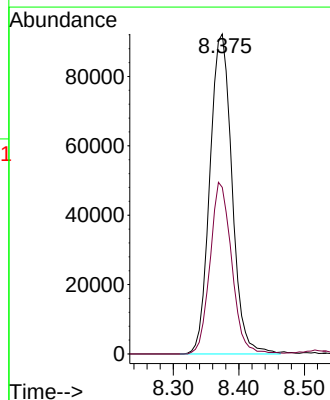
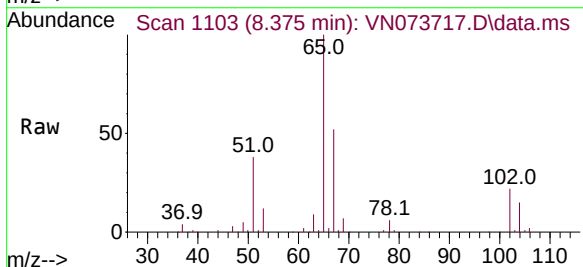
Instrument :
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ClientSampleId :
SPN-9

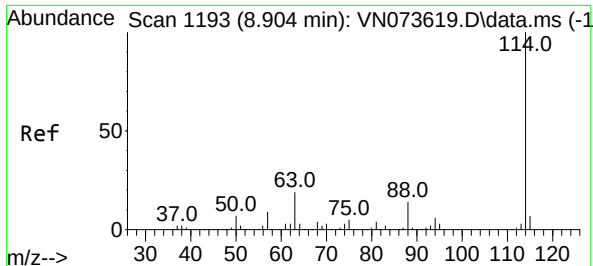
Tgt Ion: 56 Resp: 23129
Ion Ratio Lower Upper
56 100
69 73.7 27.8 41.8#
84 114.3 76.9 115.3



#33
1,2-Dichloroethane-d4
Concen: 49.821 ug/l
RT: 8.375 min Scan# 1103
Delta R.T. 0.006 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 65 Resp: 216121
Ion Ratio Lower Upper
65 100
67 52.5 0.0 104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. 0.000 min

Lab File: VN073717.D

Acq: 03 Aug 2022 17:28

Instrument :

MSVOA_N

ClientSampleId :

SPN-9

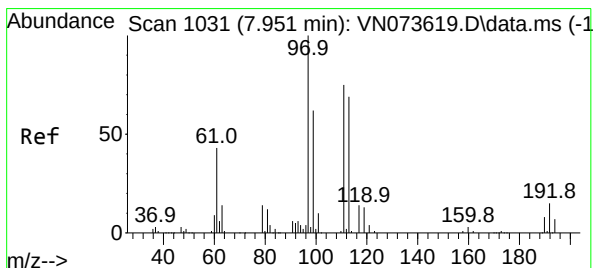
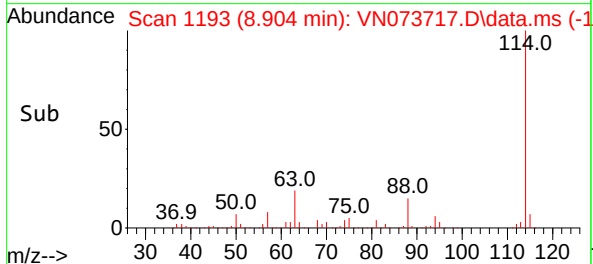
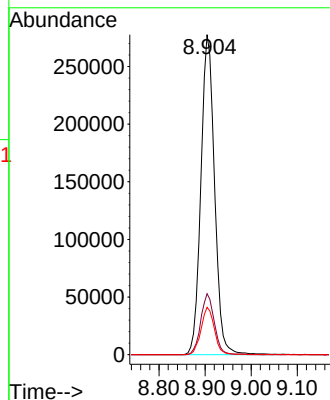
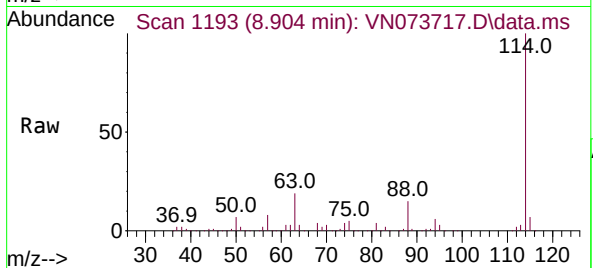
Tgt Ion:114 Resp: 575082

Ion Ratio Lower Upper

114 100

63 19.0 0.0 40.0

88 14.8 0.0 32.6



#35

Dibromofluoromethane

Concen: 54.400 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. 0.000 min

Lab File: VN073717.D

Acq: 03 Aug 2022 17:28

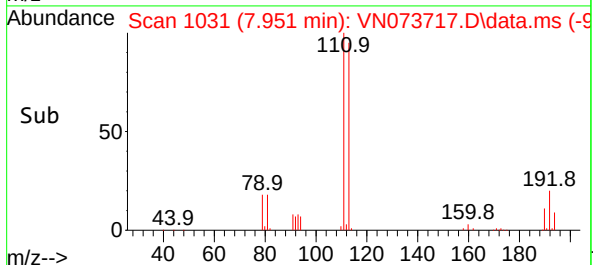
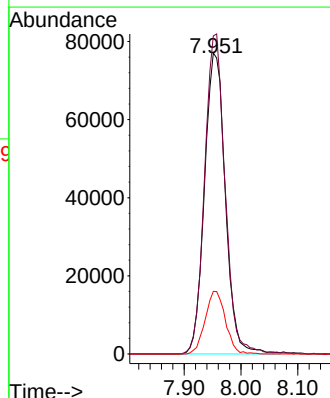
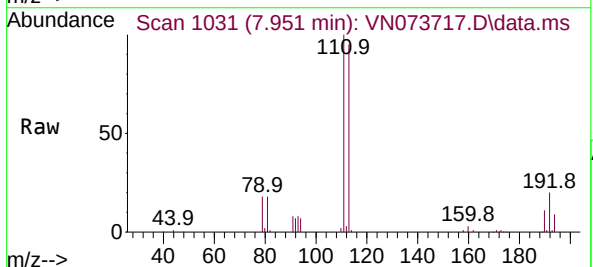
Tgt Ion:113 Resp: 196445

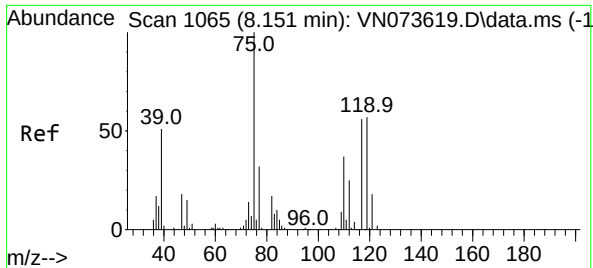
Ion Ratio Lower Upper

113 100

111 104.2 81.4 122.0

192 20.2 17.0 25.6

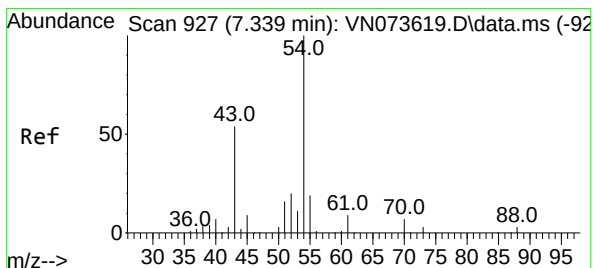
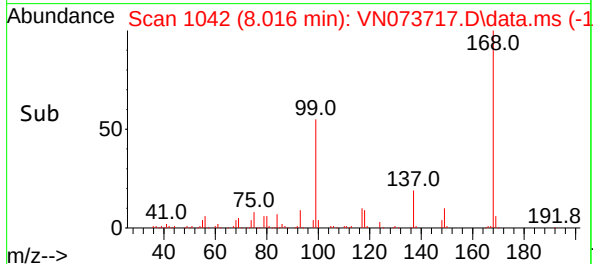
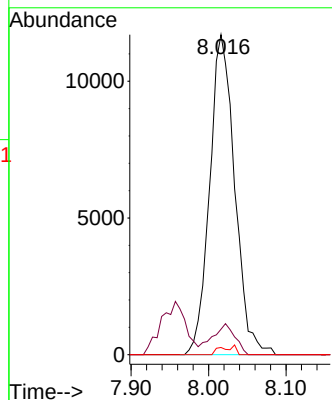
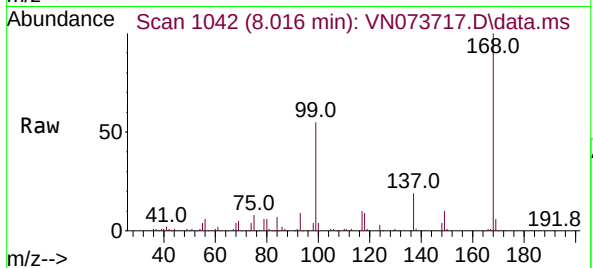




#36
1,1-Dichloropropene
Concen: 5.109 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.135 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

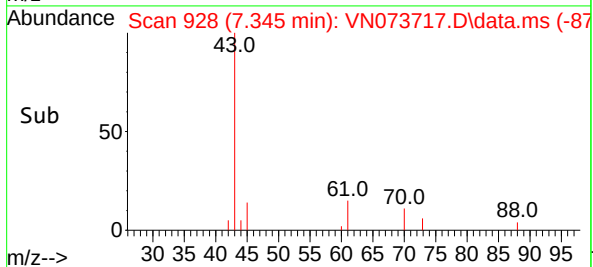
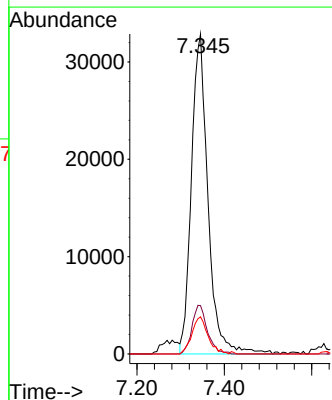
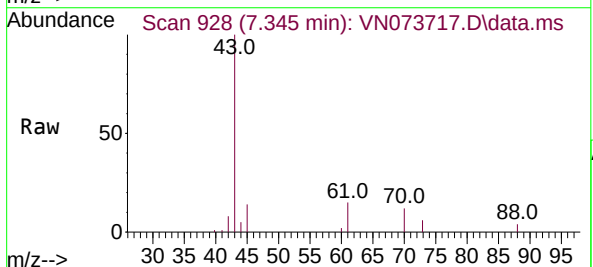
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

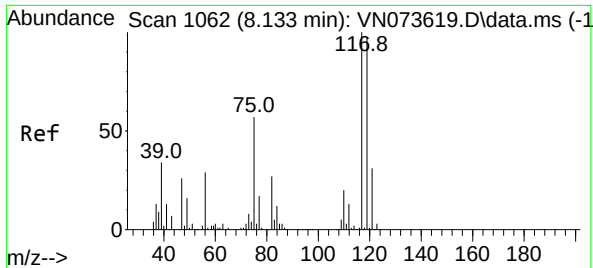
Tgt Ion: 75 Resp: 26297
Ion Ratio Lower Upper
75 100
110 8.8 18.3 54.8#
77 1.7 25.1 37.7#



#37
Ethyl Acetate
Concen: 12.755 ug/l
RT: 7.345 min Scan# 928
Delta R.T. 0.006 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 43 Resp: 86456
Ion Ratio Lower Upper
43 100
61 14.1 11.8 17.6
70 11.3 9.3 13.9

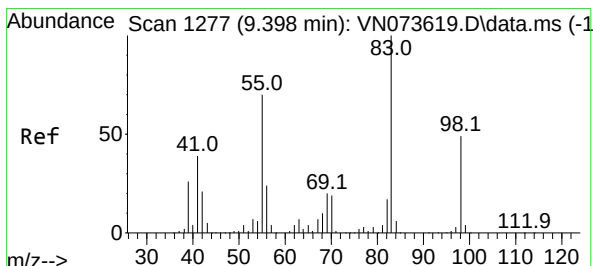
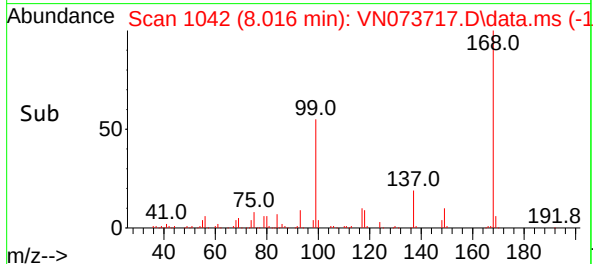
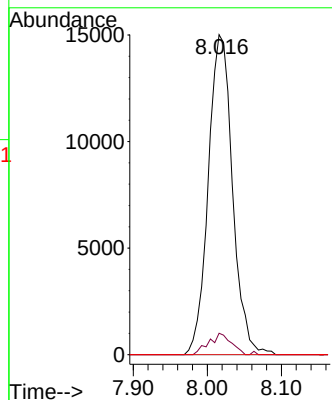
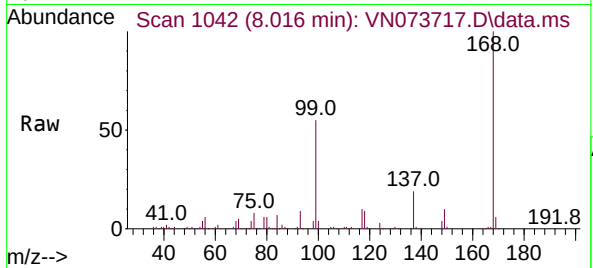




#38
Carbon Tetrachloride
Concen: 6.527 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

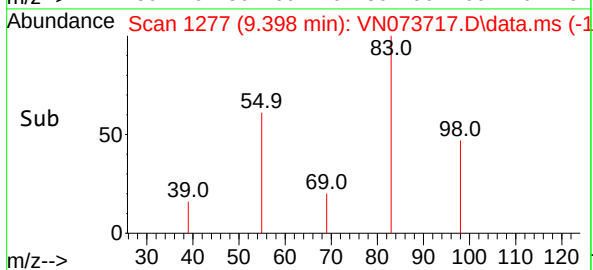
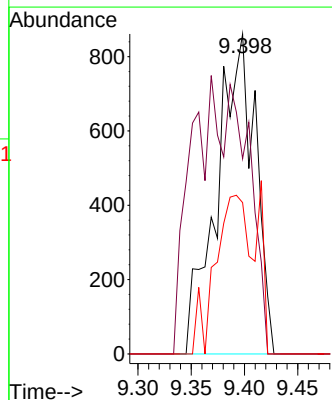
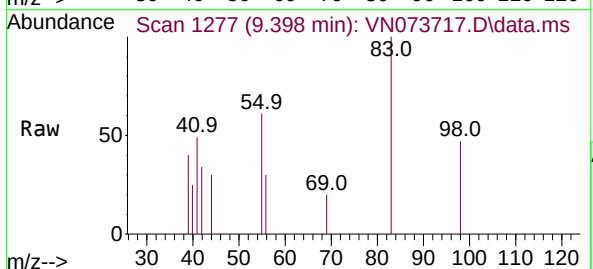
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

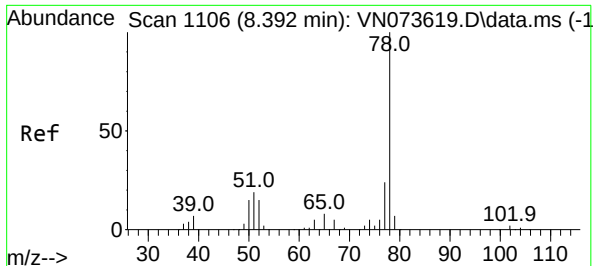
Tgt Ion:117 Resp: 34118
Ion Ratio Lower Upper
117 100
119 6.7 75.8 113.8#
121 0.0 24.6 37.0#



#39
Methylcyclohexane
Concen: 0.352 ug/l
RT: 9.398 min Scan# 1277
Delta R.T. 0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 83 Resp: 2163
Ion Ratio Lower Upper
83 100
55 61.0 57.8 86.8
98 47.3 39.4 59.2

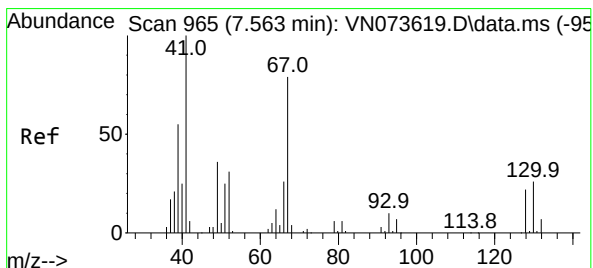
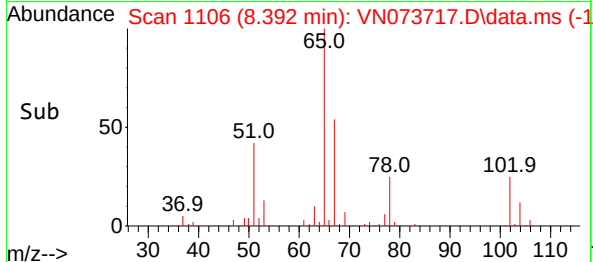
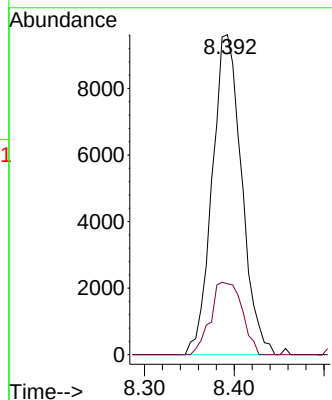
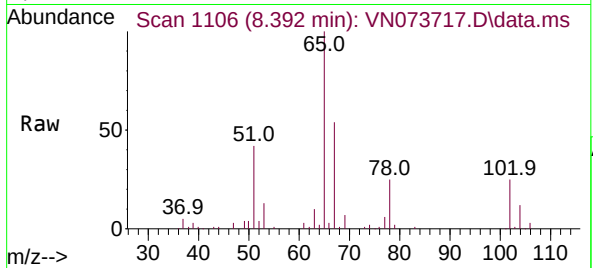




#40
Benzene
Concen: 1.310 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. 0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

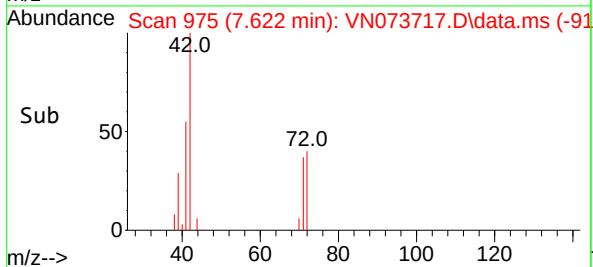
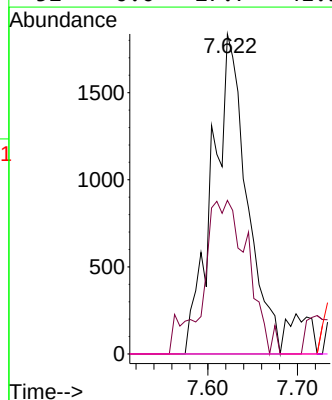
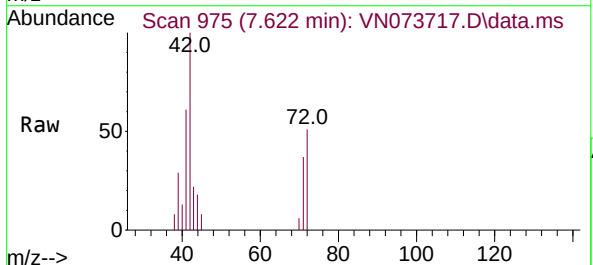
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

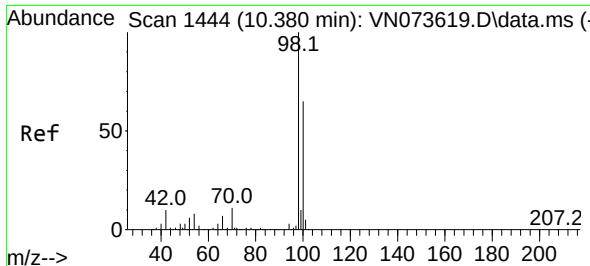
Tgt Ion: 78 Resp: 21894
Ion Ratio Lower Upper
78 100
77 22.2 19.4 29.0



#41
Methacrylonitrile
Concen: 1.592 ug/l
RT: 7.622 min Scan# 975
Delta R.T. 0.059 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 41 Resp: 4883
Ion Ratio Lower Upper
41 100
39 63.0 48.6 73.0
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#

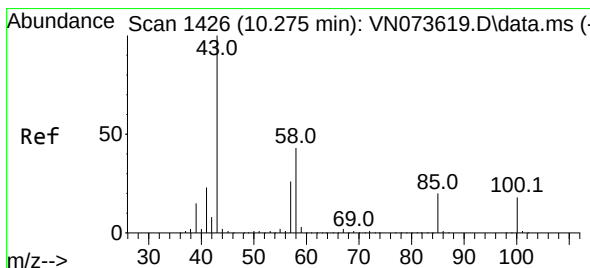
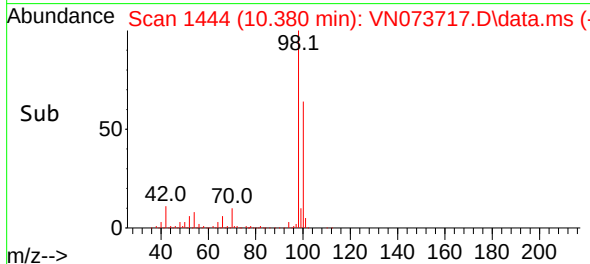
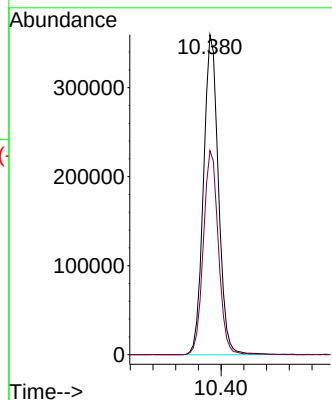
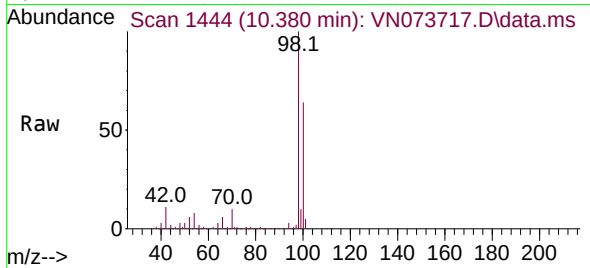




#50
Toluene-d8
Concen: 46.060 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

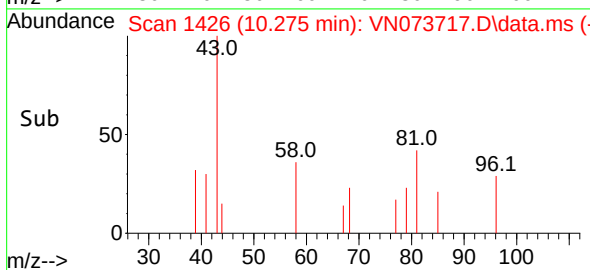
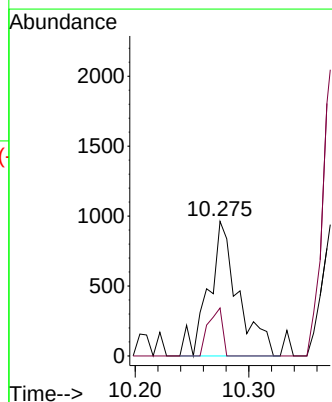
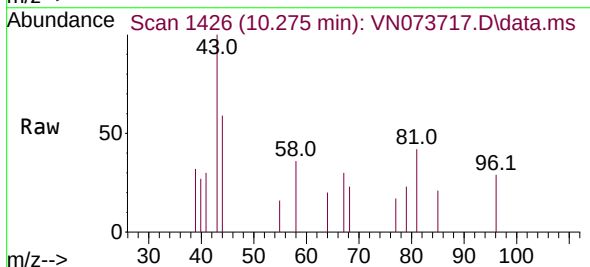
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

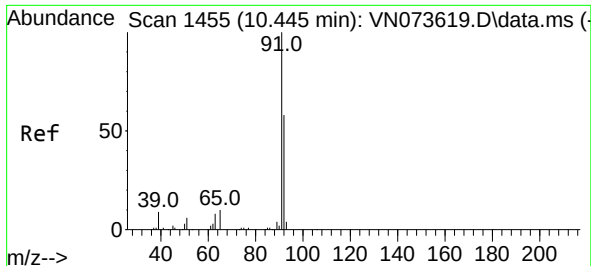
Tgt Ion: 98 Resp: 654532
Ion Ratio Lower Upper
98 100
100 64.3 52.6 78.8



#51
4-Methyl-2-Pentanone
Concen: 0.264 ug/l
RT: 10.275 min Scan# 1426
Delta R.T. -0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 43 Resp: 1735
Ion Ratio Lower Upper
43 100
58 17.1 34.1 51.1#

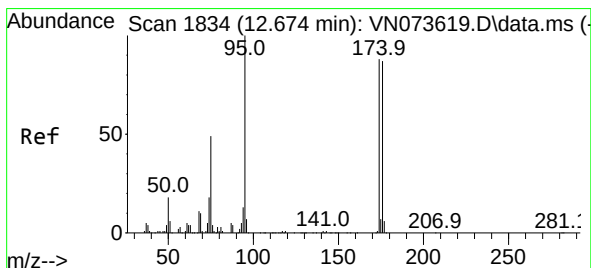
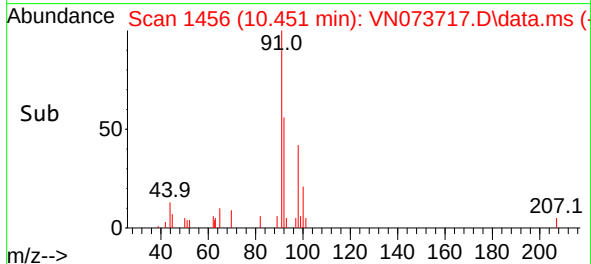
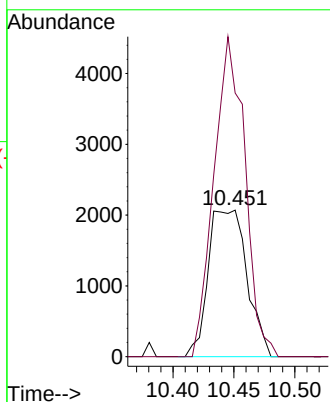
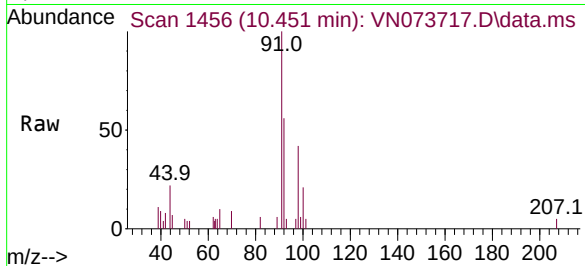




#52
Toluene
Concen: 0.449 ug/l
RT: 10.451 min Scan# 1455
Delta R.T. 0.006 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

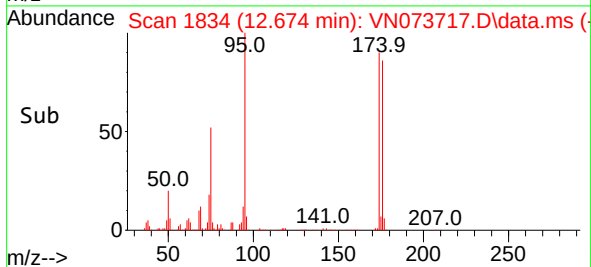
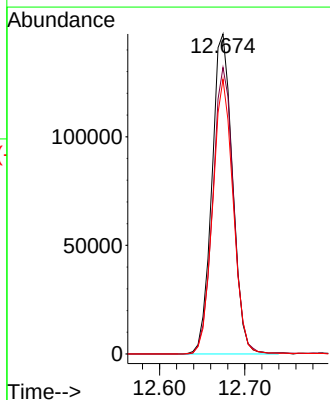
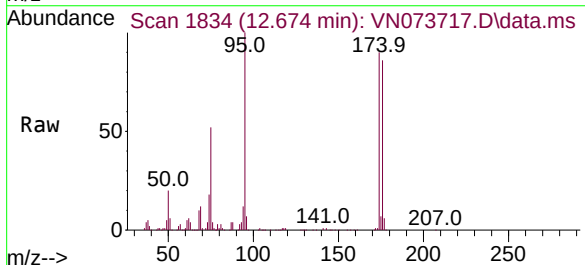
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

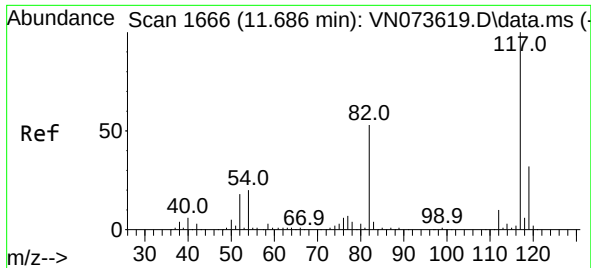
Tgt Ion: 92 Resp: 4587
Ion Ratio Lower Upper
92 100
91 175.0 138.6 207.8



#62
4-Bromofluorobenzene
Concen: 51.988 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 95 Resp: 248724
Ion Ratio Lower Upper
95 100
174 89.4 0.0 167.6
176 85.3 0.0 163.4

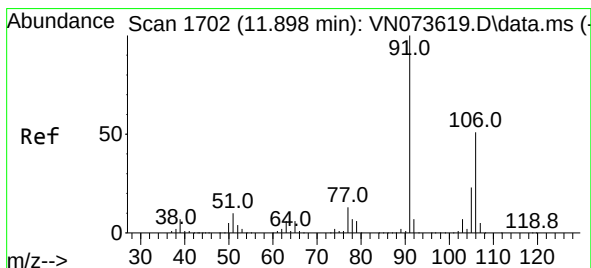
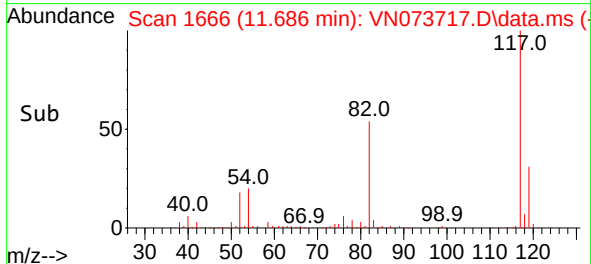
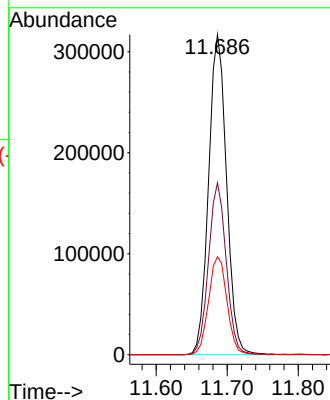
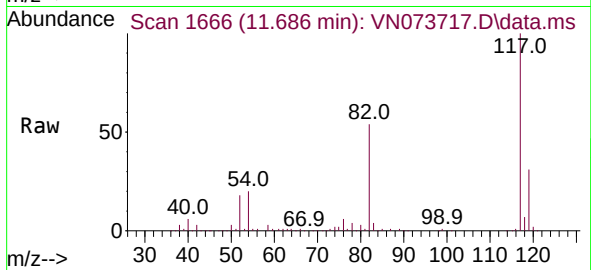




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

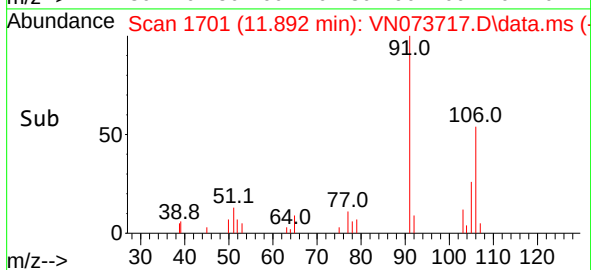
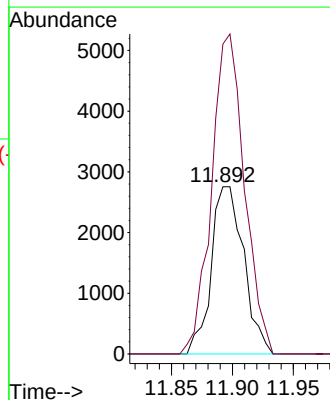
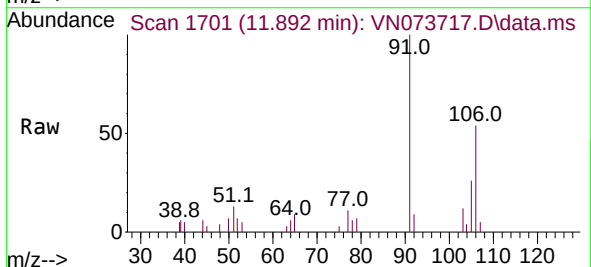
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

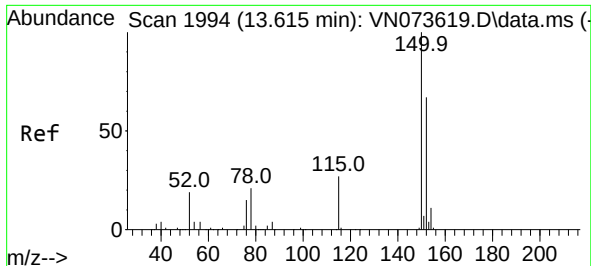
Tgt Ion:117 Resp: 556275
Ion Ratio Lower Upper
117 100
82 53.7 44.2 66.2
119 30.6 25.4 38.0



#68
m/p-Xylenes
Concen: 0.672 ug/l
RT: 11.892 min Scan# 1701
Delta R.T. -0.006 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion:106 Resp: 5107
Ion Ratio Lower Upper
106 100
91 194.1 158.9 238.3

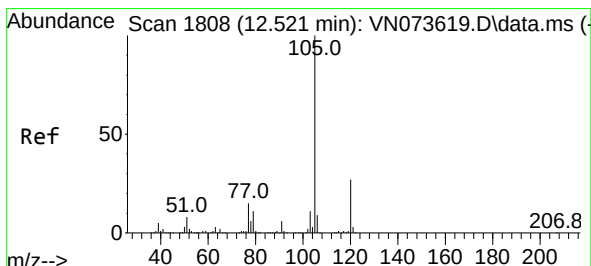
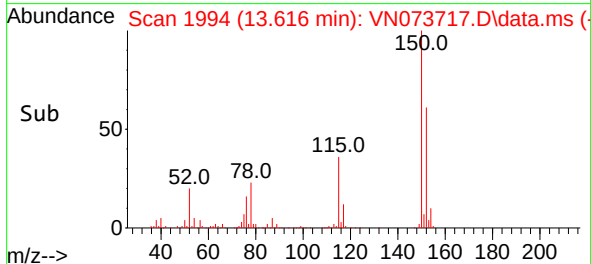
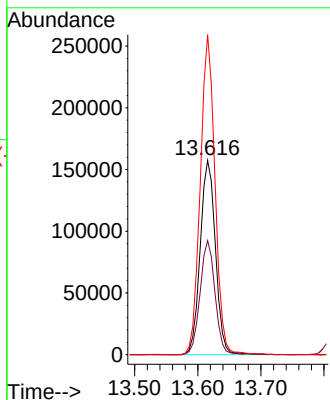
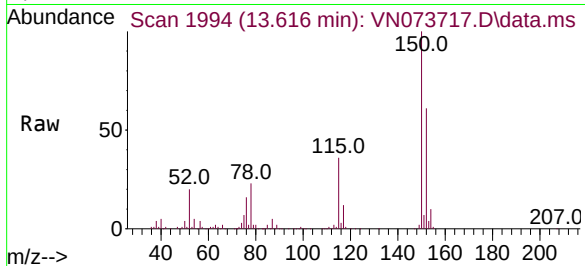




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.616 min Scan# 1994
Delta R.T. 0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

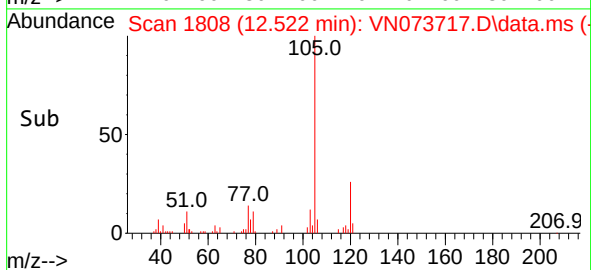
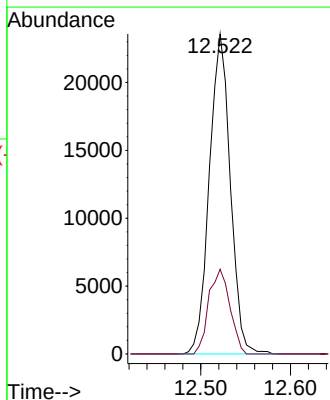
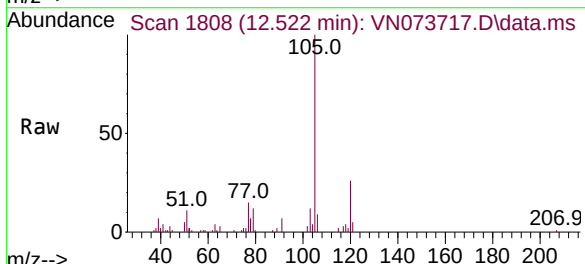
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

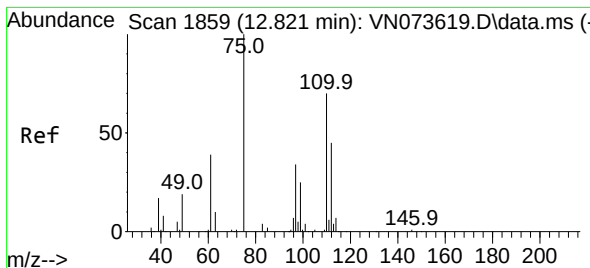
Tgt Ion:152 Resp: 264824
Ion Ratio Lower Upper
152 100
115 57.5 28.9 86.7
150 158.8 0.0 356.2



#73
Isopropylbenzene
Concen: 1.974 ug/l
RT: 12.522 min Scan# 1808
Delta R.T. 0.000 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion:105 Resp: 38264
Ion Ratio Lower Upper
105 100
120 26.7 13.5 40.4





#76

1,2,3-Trichloropropane

Concen: 25.162 ug/l

RT: 12.674 min Scan# 1834

Delta R.T. -0.147 min

Lab File: VN073717.D

Acq: 03 Aug 2022 17:28

Instrument :

MSVOA_N

ClientSampleId :

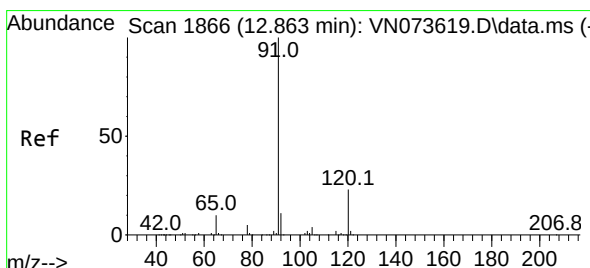
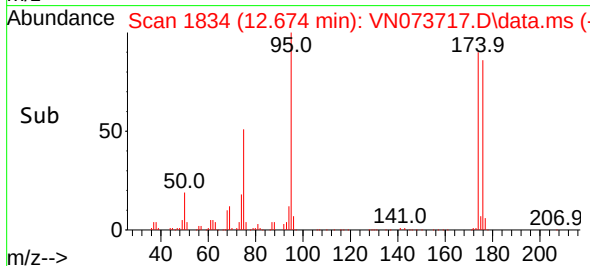
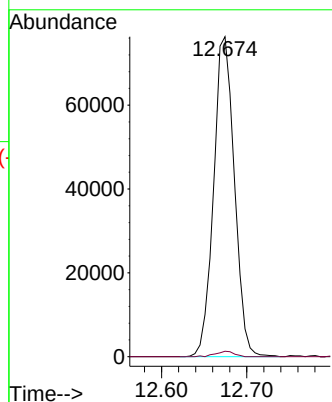
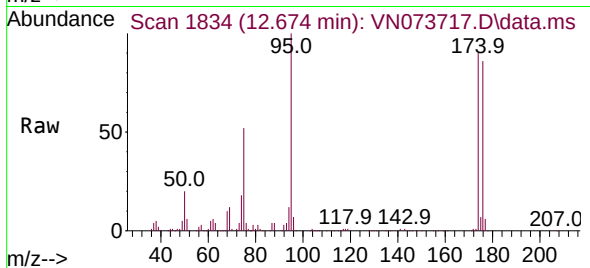
SPN-9

Tgt Ion: 75 Resp: 129839

Ion Ratio Lower Upper

75 100

77 1.5 98.5 295.5#



#78

n-propylbenzene

Concen: 2.782 ug/l

RT: 12.863 min Scan# 1866

Delta R.T. 0.000 min

Lab File: VN073717.D

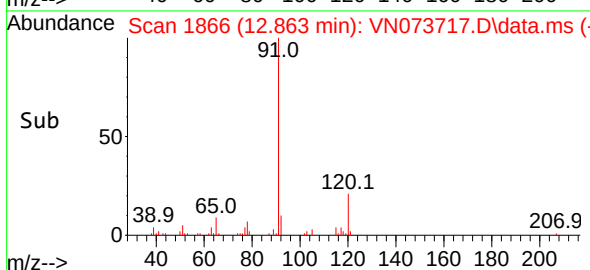
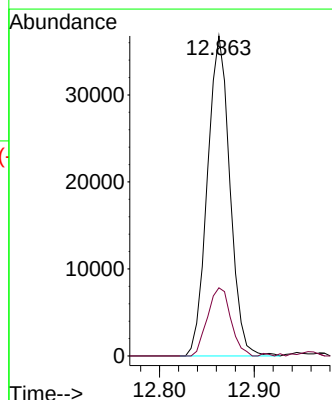
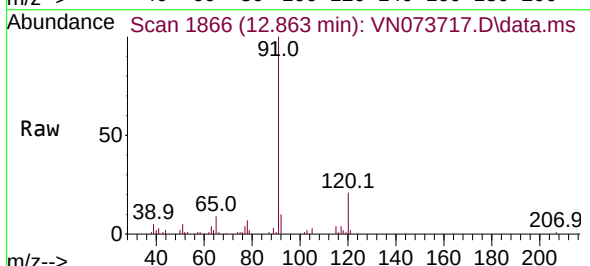
Acq: 03 Aug 2022 17:28

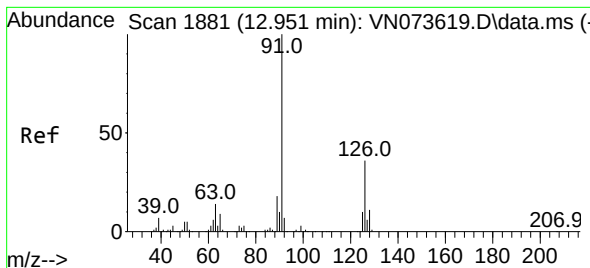
Tgt Ion: 91 Resp: 60685

Ion Ratio Lower Upper

91 100

120 22.0 11.9 35.5





#79

2-Chlorotoluene

Concen: 4.458 ug/l

RT: 12.863 min Scan# 11

Delta R.T. -0.088 min

Lab File: VN073717.D

Acq: 03 Aug 2022 17:28

Instrument :

MSVOA_N

ClientSampleId :

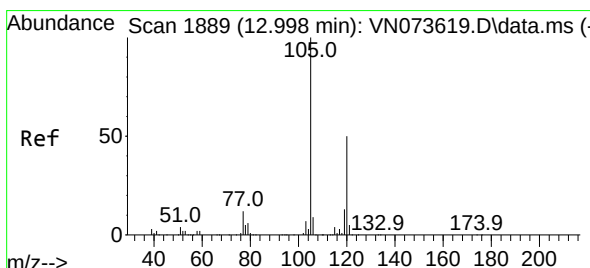
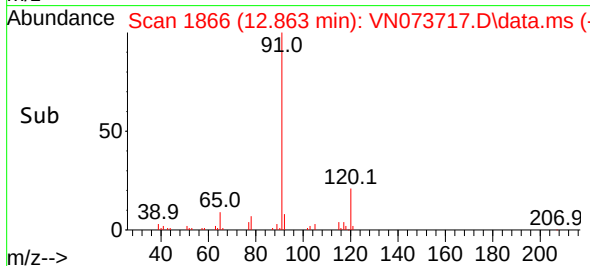
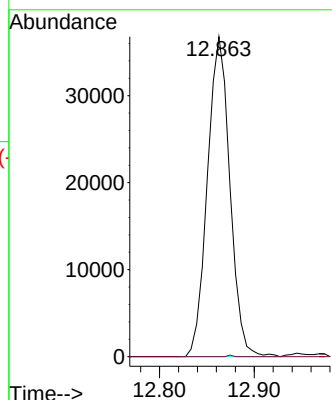
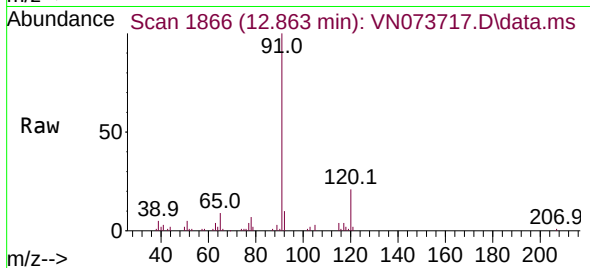
SPN-9

Tgt Ion: 91 Resp: 60685

Ion Ratio Lower Upper

91 100

126 0.1 17.3 51.9#



#80

1,3,5-Trimethylbenzene

Concen: 0.233 ug/l

RT: 13.169 min Scan# 1918

Delta R.T. 0.171 min

Lab File: VN073717.D

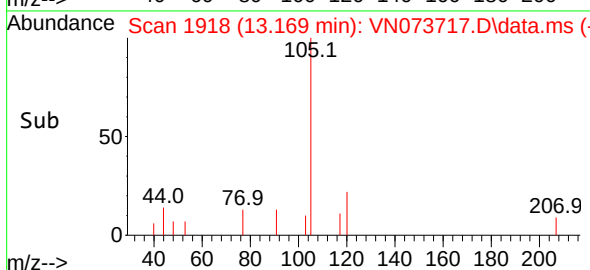
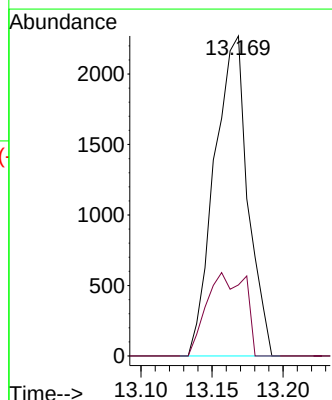
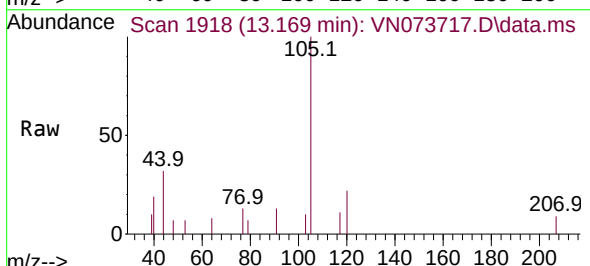
Acq: 03 Aug 2022 17:28

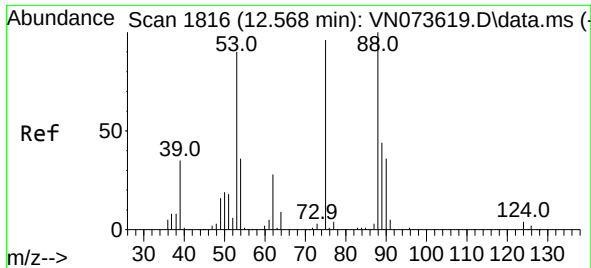
Tgt Ion: 105 Resp: 3714

Ion Ratio Lower Upper

105 100

120 29.8 24.9 74.7

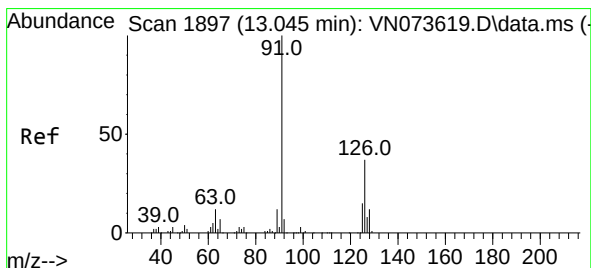
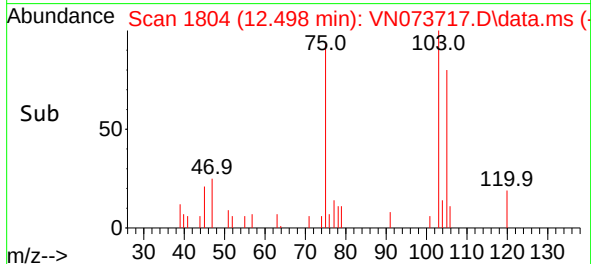
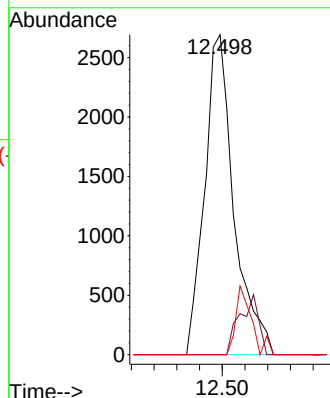
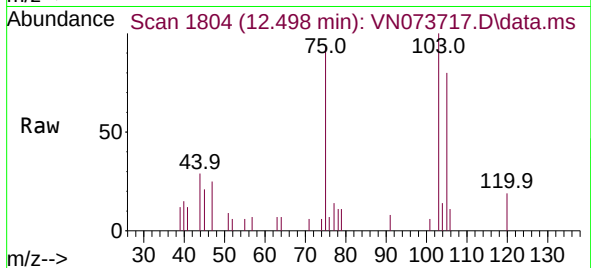




#81
trans-1,4-Dichloro-2-butene
Concen: 2.355 ug/l
RT: 12.498 min Scan# 1804
Delta R.T. -0.070 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

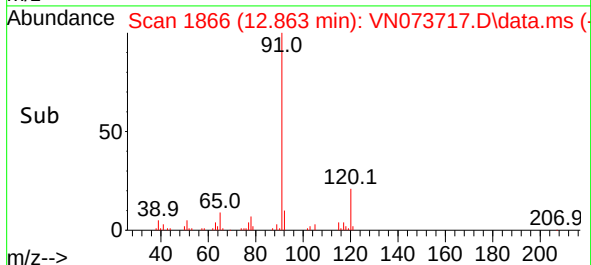
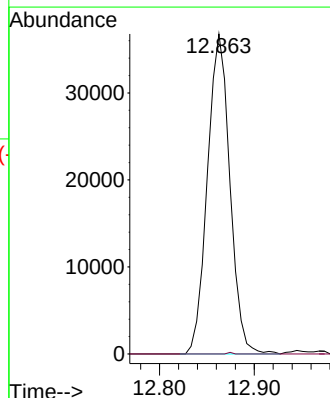
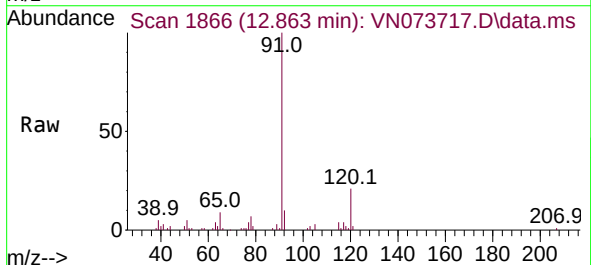
Instrument :
MSVOA_N
ClientSampleId :
SPN-9

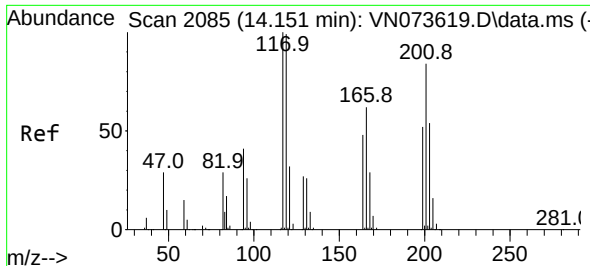
Tgt Ion: 75 Resp: 4813
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 37.2 55.8#



#82
4-Chlorotoluene
Concen: 4.703 ug/l
RT: 12.863 min Scan# 1866
Delta R.T. -0.182 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion: 91 Resp: 60685
Ion Ratio Lower Upper
91 100
126 0.1 17.2 51.6#

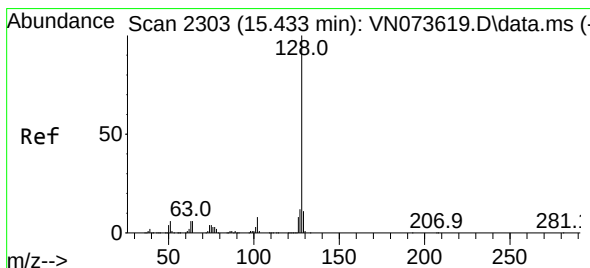
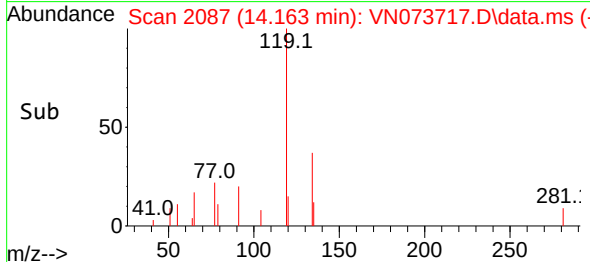
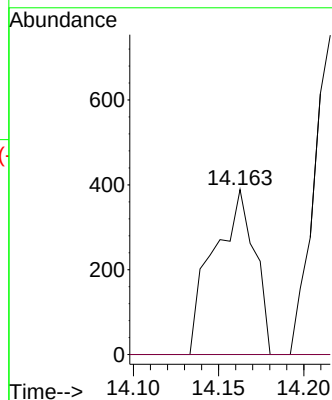
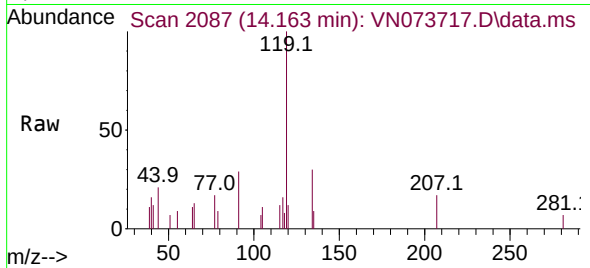




#90
Hexachloroethane
Concen: 0.213 ug/l
RT: 14.163 min Scan# 2087
Delta R.T. 0.012 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Instrument :
MSVOA_N
ClientSampleId :
SPN-9

Tgt Ion:117 Resp: 651
Ion Ratio Lower Upper
117 100
201 0.0 40.6 122.0#



#95
Naphthalene
Concen: 0.217 ug/l
RT: 15.439 min Scan# 2304
Delta R.T. 0.006 min
Lab File: VN073717.D
Acq: 03 Aug 2022 17:28

Tgt Ion:128 Resp: 3260
Ion Ratio Lower Upper
128 100
127 8.1 10.3 15.5#
129 8.1 8.6 13.0#

