

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080322\
 Data File : VN073714.D
 Acq On : 03 Aug 2022 16:14
 Operator : JC\MD
 Sample : N3972-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPN-4

Quant Time: Aug 04 05:35:29 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	347905	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	557824	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	529448	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.615	152	237556	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	211343	49.848	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.700%
35) Dibromofluoromethane	7.957	113	194649	55.570	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	111.140%
50) Toluene-d8	10.380	98	640484	46.466	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	92.940%
62) 4-Bromofluorobenzene	12.674	95	230143	49.979	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	99.960%

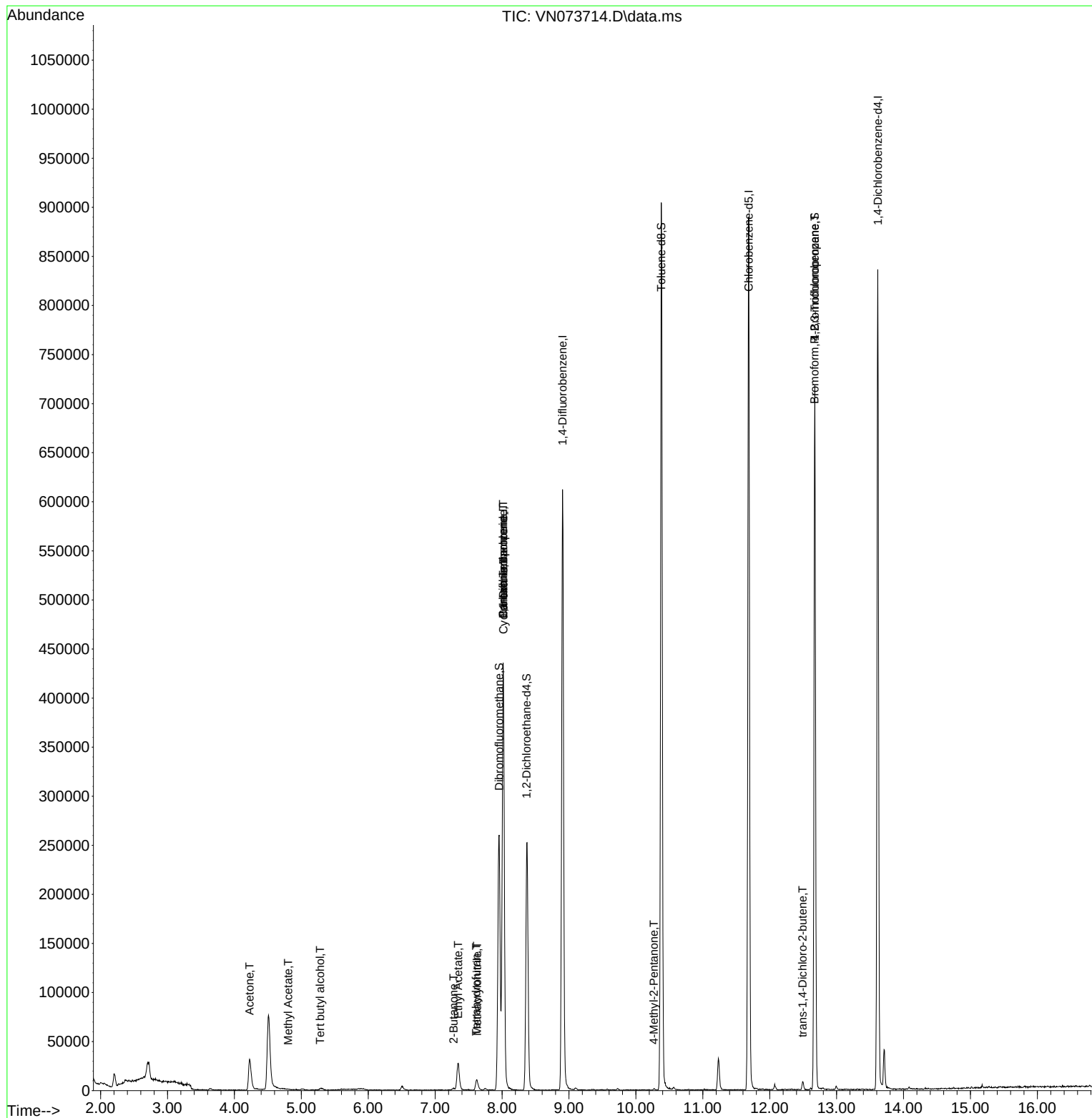
Target Compounds			Qvalue			
3) Chloromethane	2.275	50	925	Below Cal		98
6) Chloroethane	2.987	64	1189	Below Cal	#	42
11) Tert butyl alcohol	5.281	59	1058	1.157	ug/l #	87
16) Acetone	4.228	43	56611	24.860	ug/l	97
18) Methyl Acetate	4.804	43	1453	0.256	ug/l #	55
20) Methylene Chloride	5.010	84	601	Below Cal	#	68
25) 2-Butanone	7.275	43	2659	0.752	ug/l #	87
29) Tetrahydrofuran	7.616	42	8165	3.652	ug/l	93
31) Cyclohexane	8.022	56	6623	1.049	ug/l #	29
36) 1,1-Dichloropropene	8.016	75	24249	4.857	ug/l #	50
37) Ethyl Acetate	7.345	43	43776	6.658	ug/l	99
38) Carbon Tetrachloride	8.016	117	33467	6.600	ug/l #	16
41) Methacrylonitrile	7.628	41	5315	1.787	ug/l #	37
51) 4-Methyl-2-Pentanone	10.269	43	1397	0.219	ug/l #	66
71) Bromoform	12.668	173	1400	0.420	ug/l #	28
76) 1,2,3-Trichloropropane	12.674	75	118172	25.580	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.492	75	4601	2.510	ug/l #	10

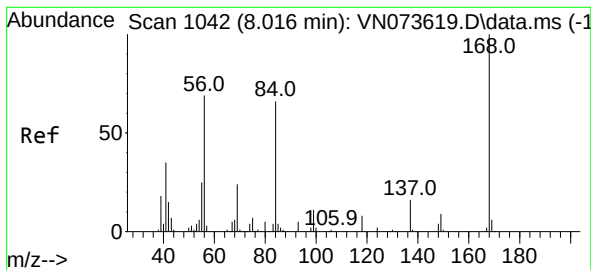
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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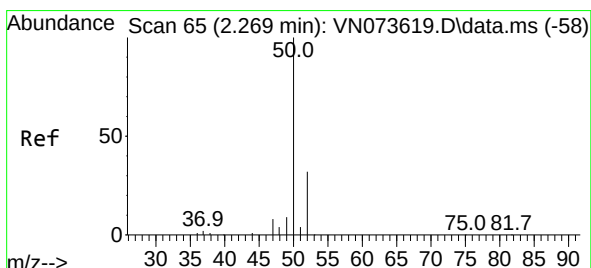
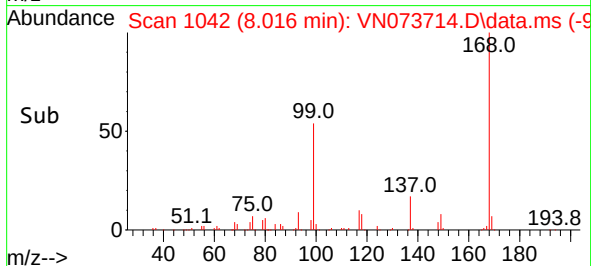
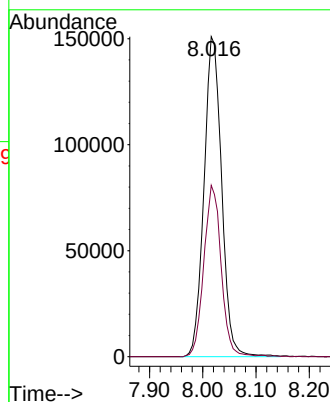
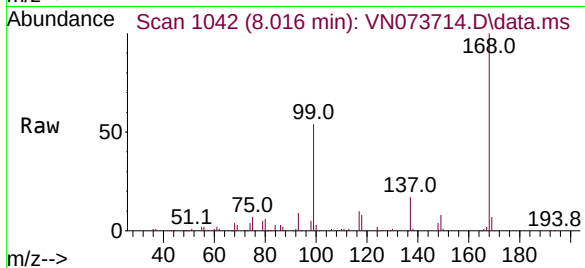




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

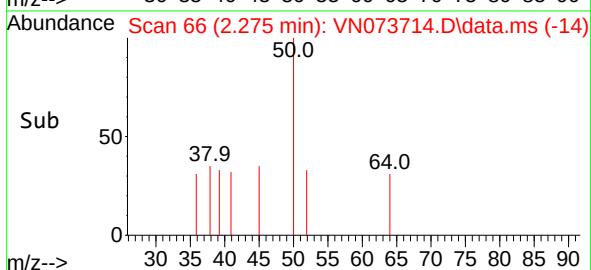
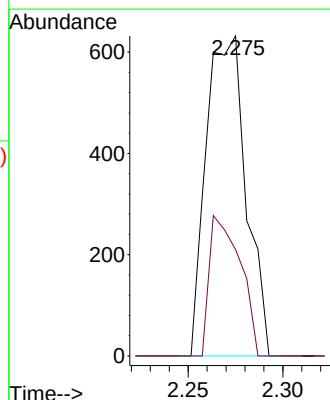
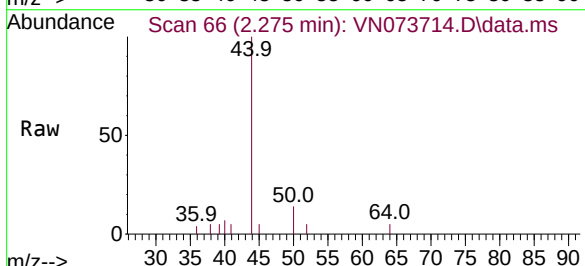
Instrument :
MSVOA_N
ClientSampleId :
SPN-4

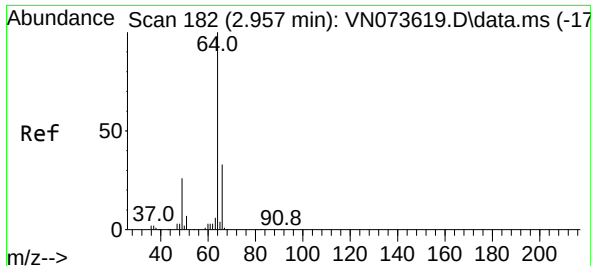
Tgt Ion:168 Resp: 347905
Ion Ratio Lower Upper
168 100
99 53.6 42.3 63.5



#3
Chloromethane
Concen: Below Cal
RT: 2.275 min Scan# 66
Delta R.T. 0.006 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

Tgt Ion: 50 Resp: 925
Ion Ratio Lower Upper
50 100
52 33.2 25.7 38.5

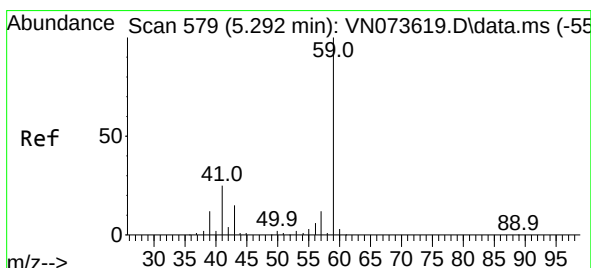
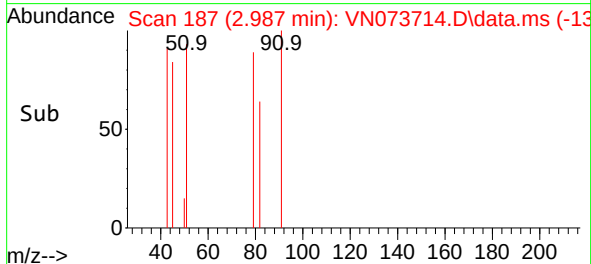
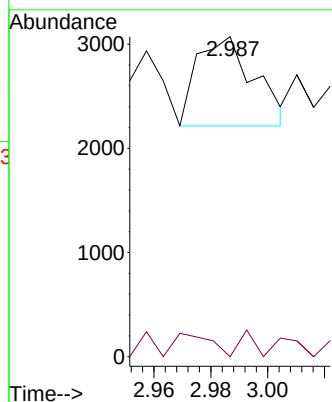
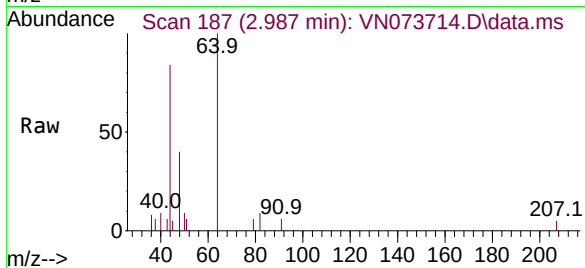




#6
Chloroethane
Concen: Below Cal
RT: 2.987 min Scan# 1189
Delta R.T. 0.030 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

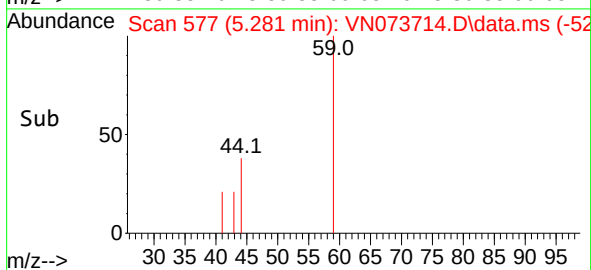
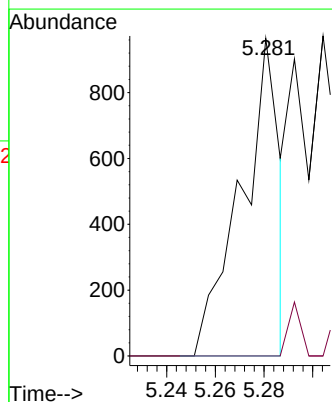
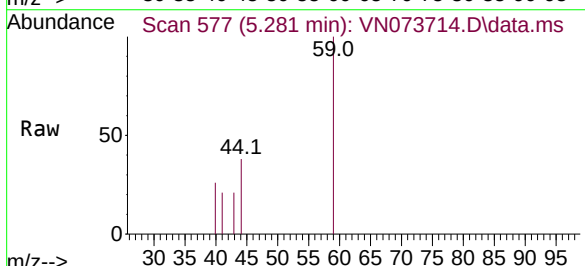
Instrument :
MSVOA_N
ClientSampleId :
SPN-4

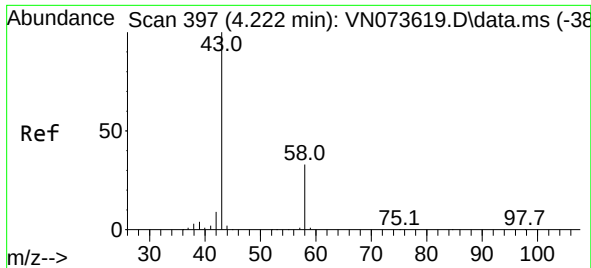
Tgt Ion: 64 Resp: 1189
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: 1.157 ug/l
RT: 5.281 min Scan# 577
Delta R.T. -0.011 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

Tgt Ion: 59 Resp: 1058
Ion Ratio Lower Upper
59 100
57 5.5 8.3 12.5#





#16

Acetone

Concen: 24.860 ug/l

RT: 4.228 min Scan# 397

Delta R.T. 0.006 min

Lab File: VN073714.D

Acq: 03 Aug 2022 16:14

Instrument :

MSVOA_N

ClientSampleId :

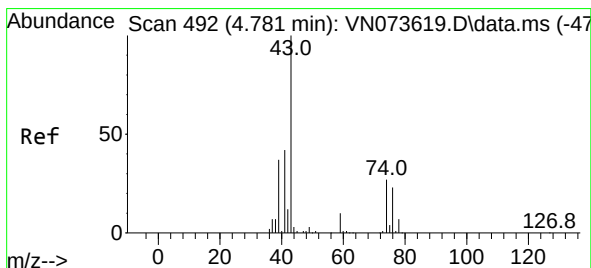
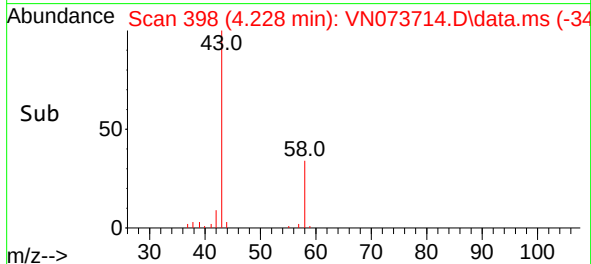
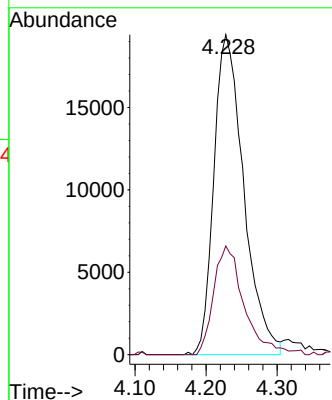
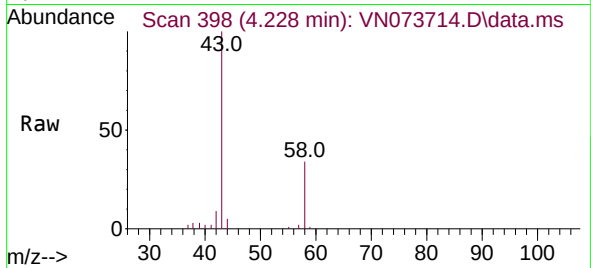
SPN-4

Tgt Ion: 43 Resp: 56611

Ion Ratio Lower Upper

43 100

58 33.9 26.0 39.0



#18

Methyl Acetate

Concen: 0.256 ug/l

RT: 4.804 min Scan# 496

Delta R.T. 0.024 min

Lab File: VN073714.D

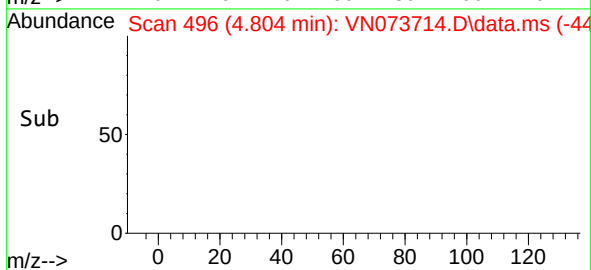
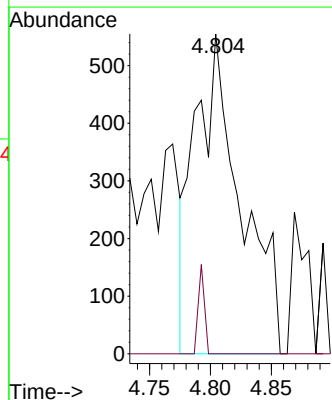
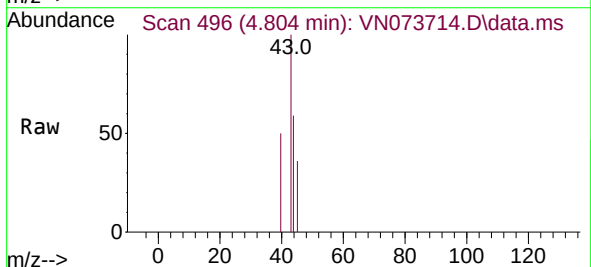
Acq: 03 Aug 2022 16:14

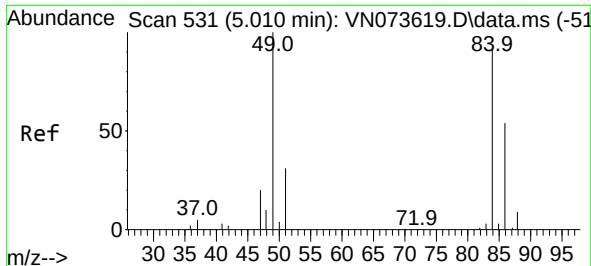
Tgt Ion: 43 Resp: 1453

Ion Ratio Lower Upper

43 100

74 3.8 21.6 32.4#

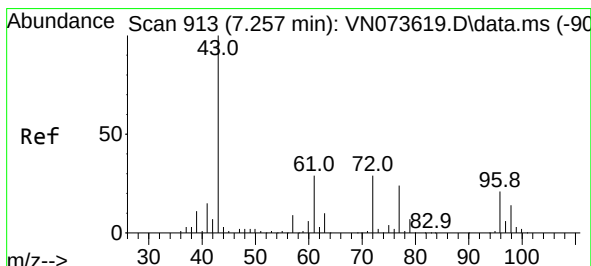
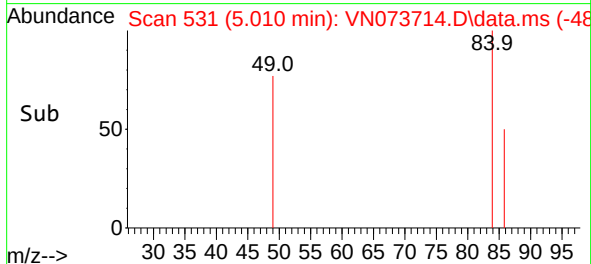
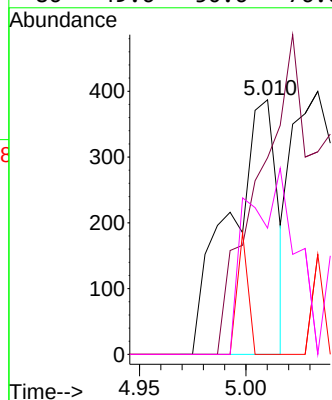
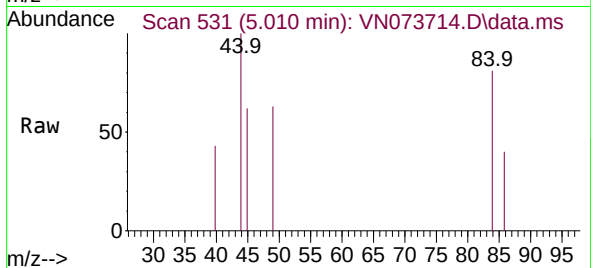




#20
Methylene Chloride
Concen: Below Cal
RT: 5.010 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

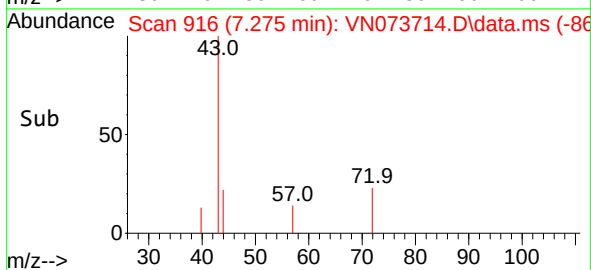
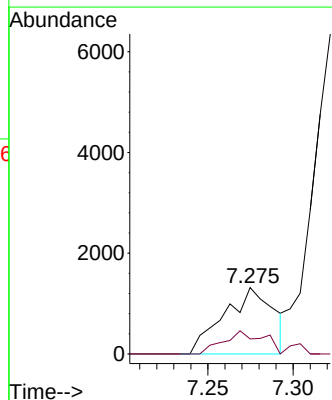
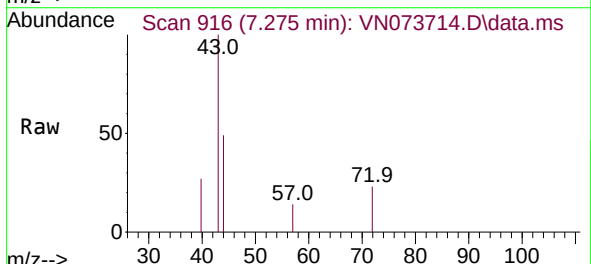
Instrument :
MSVOA_N
ClientSampleId :
SPN-4

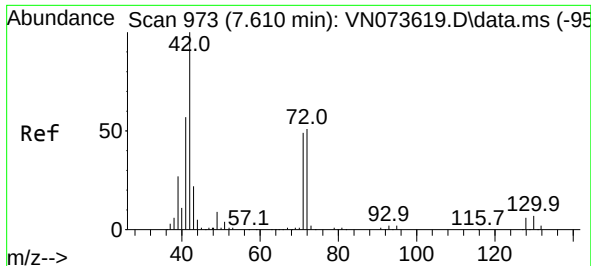
Tgt Ion: 84 Resp: 601
Ion Ratio Lower Upper
84 100
49 77.3 88.3 132.5#
51 0.0 28.2 42.2#
86 49.6 50.6 76.0#



#25
2-Butanone
Concen: 0.752 ug/l
RT: 7.275 min Scan# 916
Delta R.T. 0.018 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

Tgt Ion: 43 Resp: 2659
Ion Ratio Lower Upper
43 100
72 22.5 23.7 35.5#





#29

Tetrahydrofuran

Concen: 3.652 ug/l

RT: 7.616 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN073714.D

Acq: 03 Aug 2022 16:14

Instrument :

MSVOA_N

ClientSampleId :

SPN-4

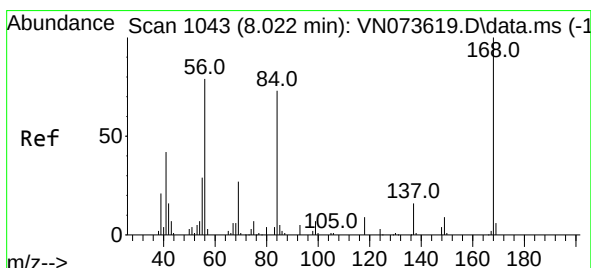
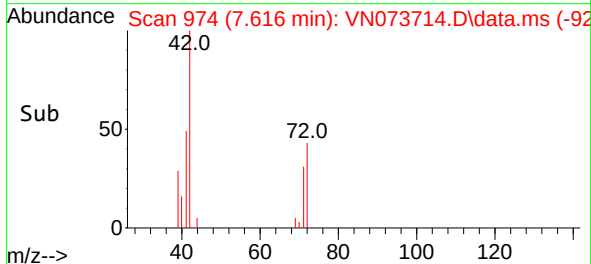
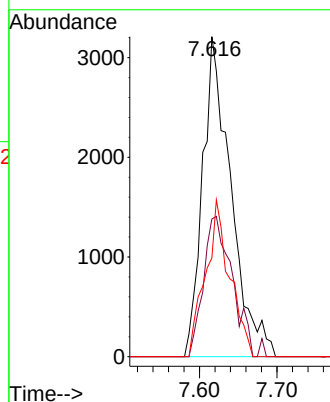
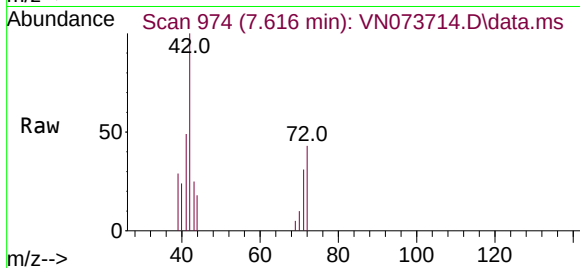
Tgt Ion: 42 Resp: 8165

Ion Ratio Lower Upper

42 100

72 44.0 39.7 59.5

71 41.8 36.6 55.0



#31

Cyclohexane

Concen: 1.049 ug/l

RT: 8.022 min Scan# 1043

Delta R.T. 0.000 min

Lab File: VN073714.D

Acq: 03 Aug 2022 16:14

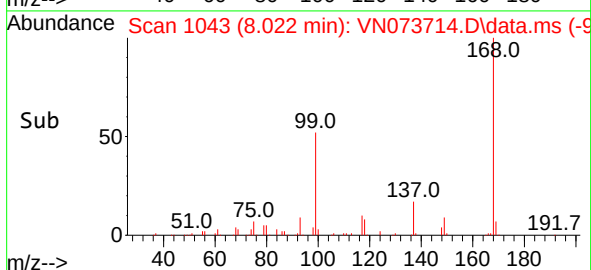
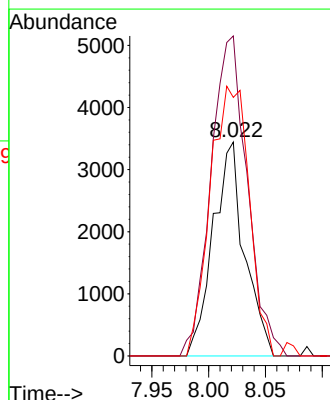
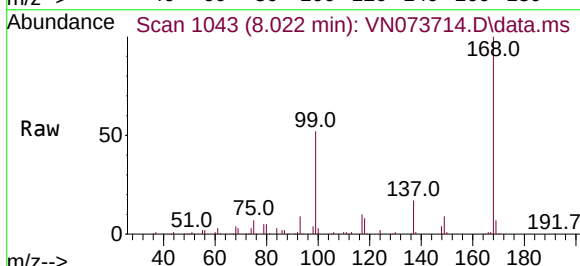
Tgt Ion: 56 Resp: 6623

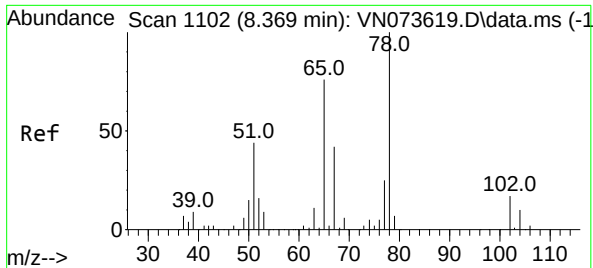
Ion Ratio Lower Upper

56 100

69 149.6 27.8 41.8#

84 120.9 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 49.848 ug/l

RT: 8.369 min Scan# 1102

Delta R.T. 0.000 min

Lab File: VN073714.D

Acq: 03 Aug 2022 16:14

Instrument :

MSVOA_N

ClientSampleId :

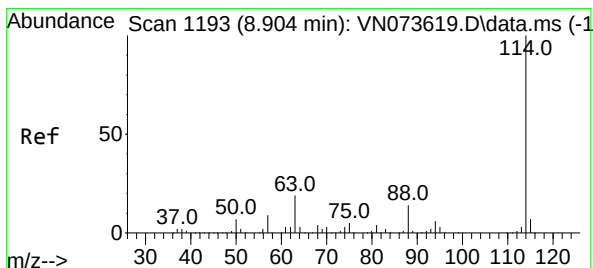
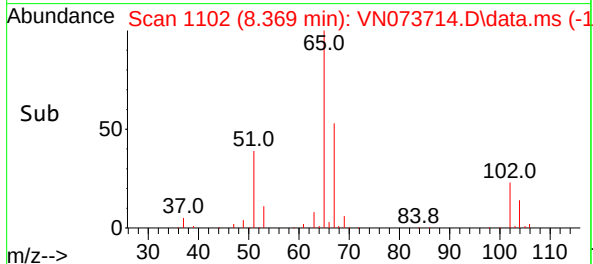
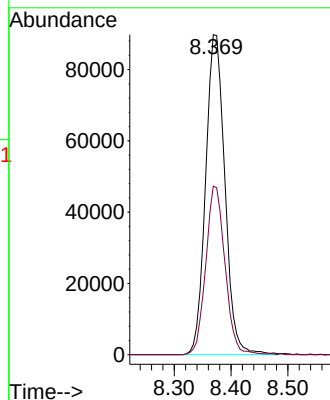
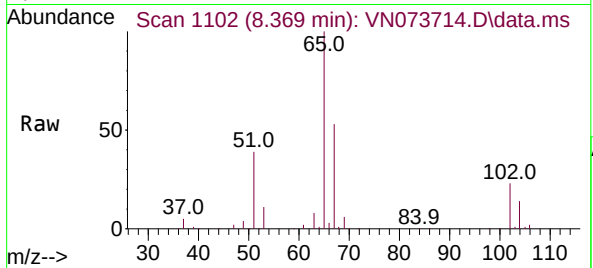
SPN-4

Tgt Ion: 65 Resp: 211343

Ion Ratio Lower Upper

65 100

67 52.6 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: VN073714.D

Acq: 03 Aug 2022 16:14

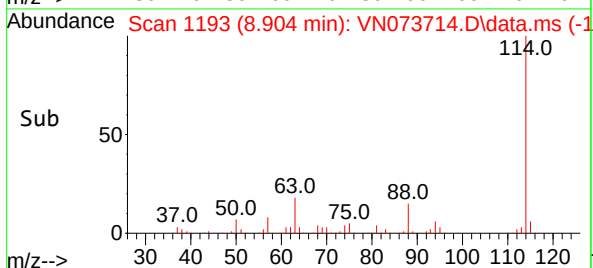
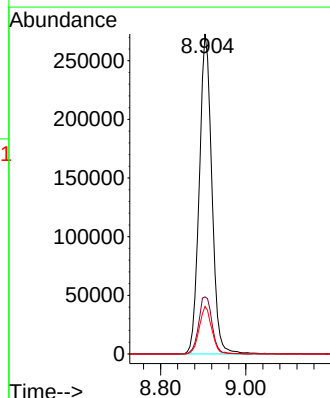
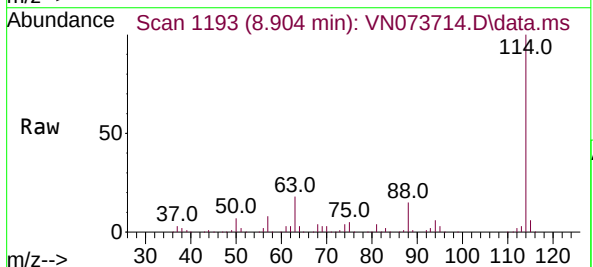
Tgt Ion: 114 Resp: 557824

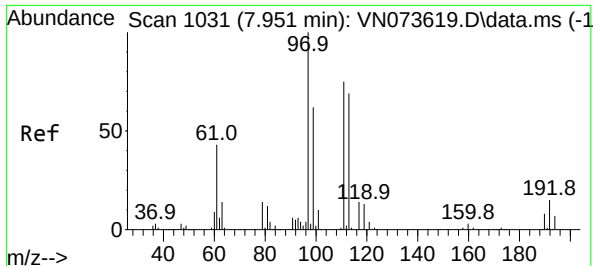
Ion Ratio Lower Upper

114 100

63 17.9 0.0 40.0

88 14.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 55.570 ug/l

RT: 7.957 min Scan# 1032

Delta R.T. 0.006 min

Lab File: VN073714.D

Acq: 03 Aug 2022 16:14

Instrument :

MSVOA_N

ClientSampleId :

SPN-4

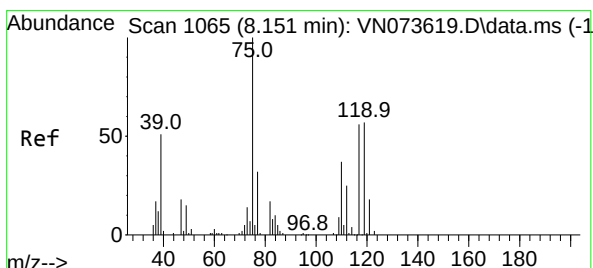
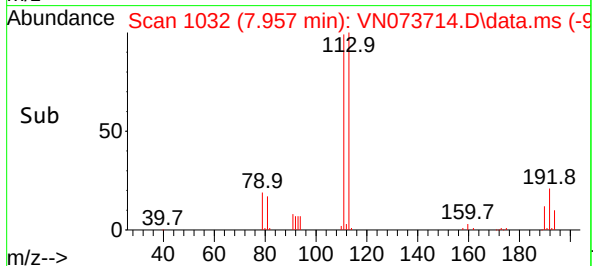
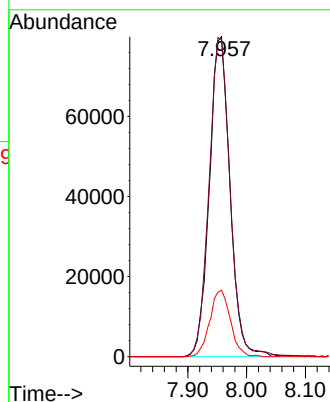
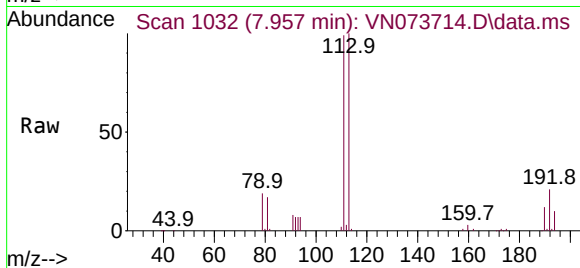
Tgt Ion:113 Resp: 194649

Ion Ratio Lower Upper

113 100

111 102.0 81.4 122.0

192 20.9 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.857 ug/l

RT: 8.016 min Scan# 1042

Delta R.T. -0.135 min

Lab File: VN073714.D

Acq: 03 Aug 2022 16:14

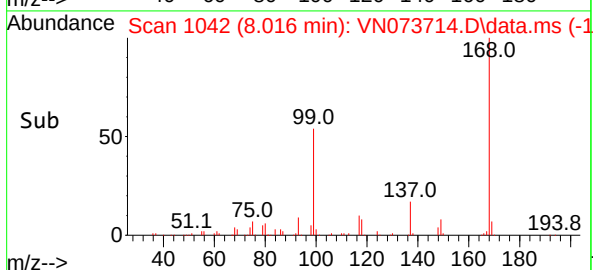
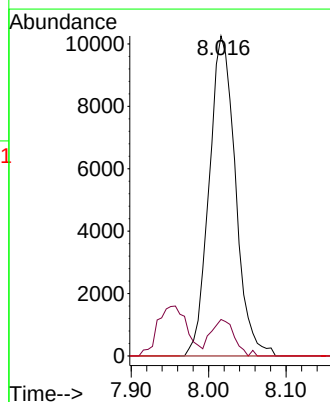
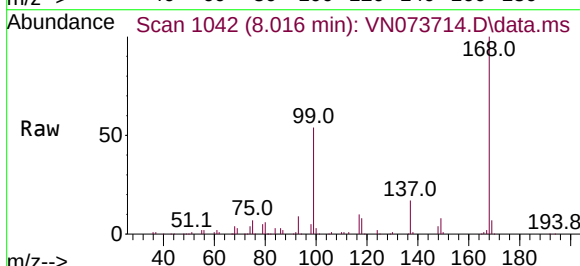
Tgt Ion: 75 Resp: 24249

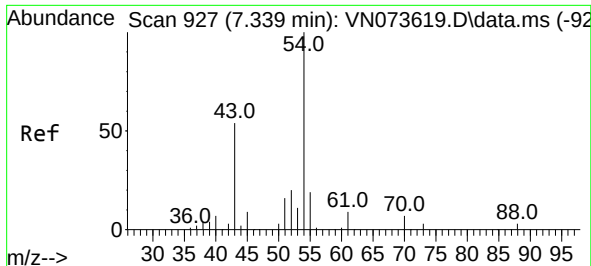
Ion Ratio Lower Upper

75 100

110 10.2 18.3 54.8#

77 0.0 25.1 37.7#

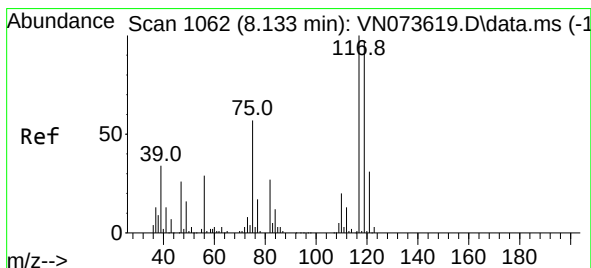
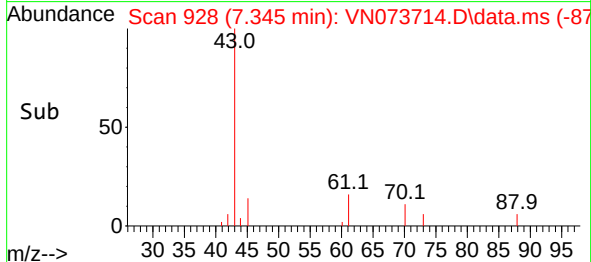
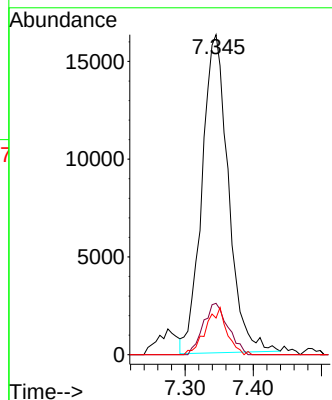
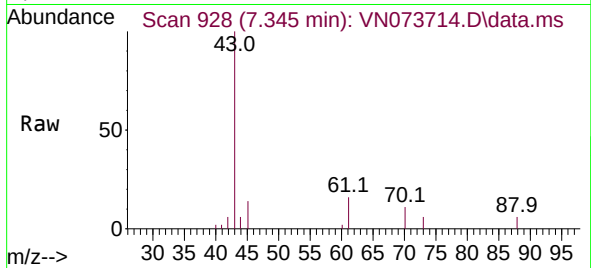




#37
Ethyl Acetate
Concen: 6.658 ug/l
RT: 7.345 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

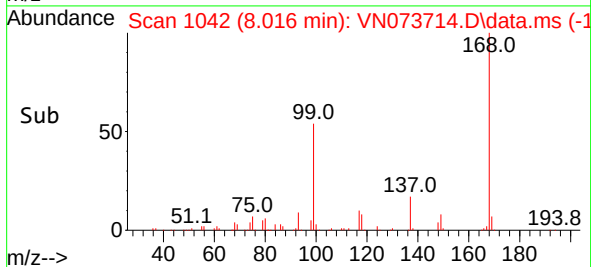
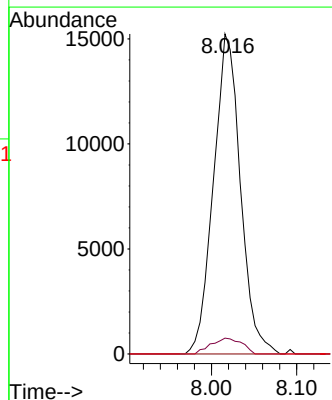
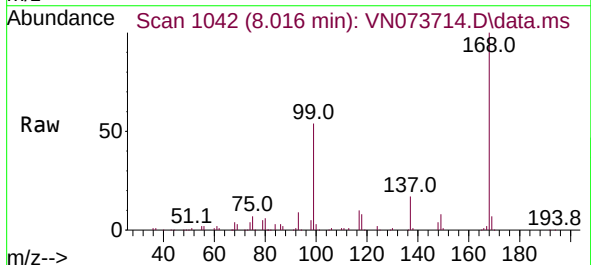
Instrument :
MSVOA_N
ClientSampleId :
SPN-4

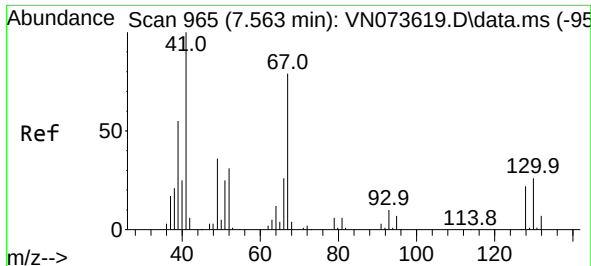
Tgt Ion: 43 Resp: 43776
Ion Ratio Lower Upper
43 100
61 15.1 11.8 17.6
70 11.9 9.3 13.9



#38
Carbon Tetrachloride
Concen: 6.600 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.118 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

Tgt Ion: 117 Resp: 33467
Ion Ratio Lower Upper
117 100
119 4.9 75.8 113.8#
121 0.0 24.6 37.0#

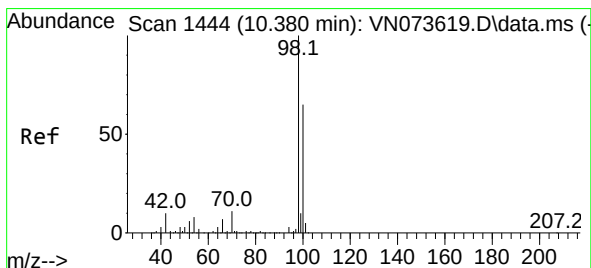
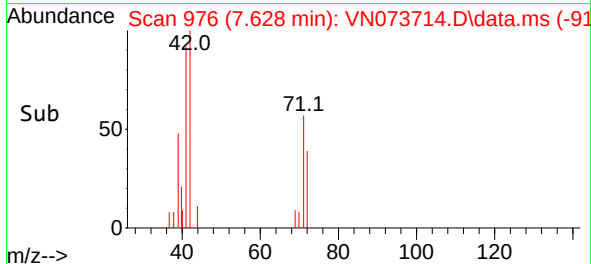
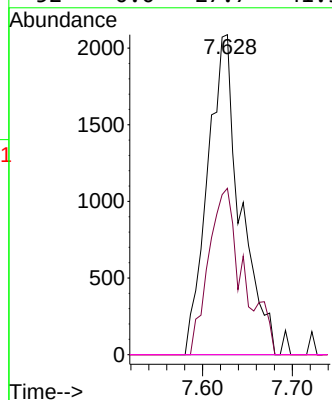
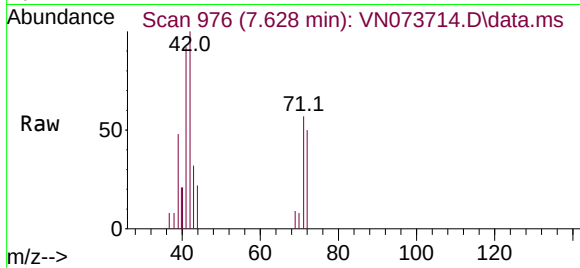




#41
Methacrylonitrile
Concen: 1.787 ug/l
RT: 7.628 min Scan# 91
Delta R.T. 0.065 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

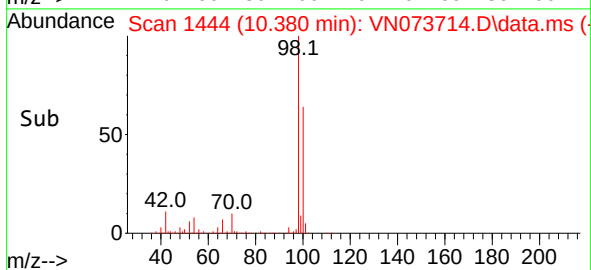
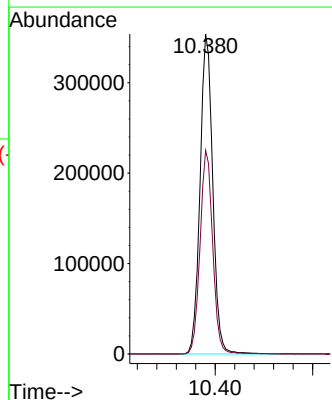
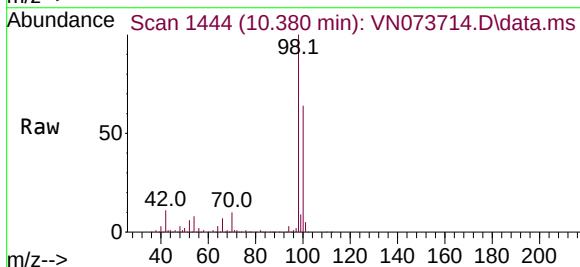
Instrument :
MSVOA_N
ClientSampleId :
SPN-4

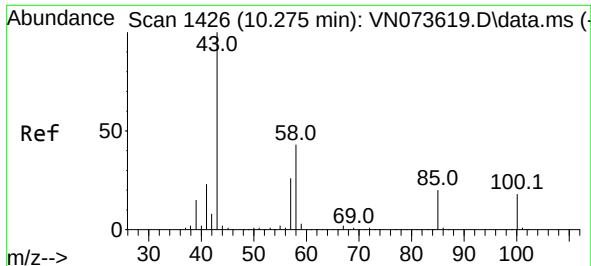
Tgt Ion: 41 Resp: 5315
Ion Ratio Lower Upper
41 100
39 49.0 48.6 73.0
67 0.0 73.4 110.2#
52 0.0 27.7 41.5#



#50
Toluene-d8
Concen: 46.466 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

Tgt Ion: 98 Resp: 640484
Ion Ratio Lower Upper
98 100
100 63.4 52.6 78.8

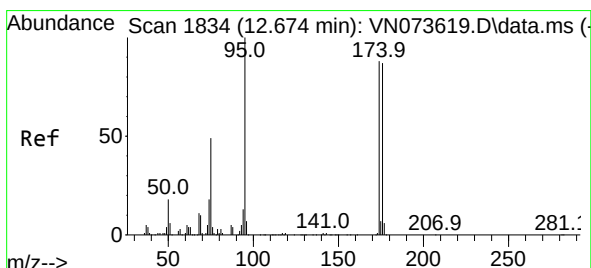
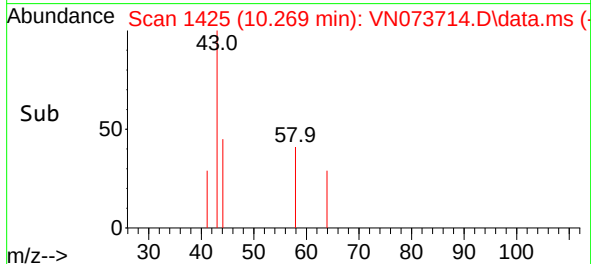
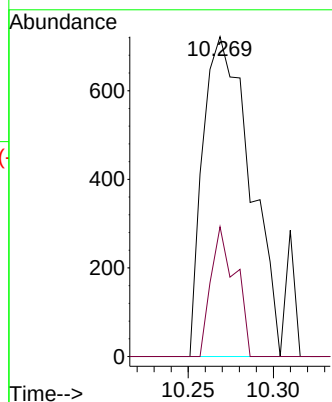
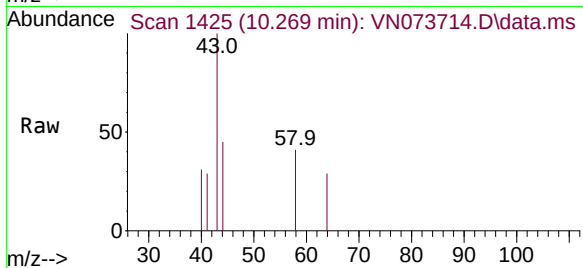




#51
4-Methyl-2-Pentanone
Concen: 0.219 ug/l
RT: 10.269 min Scan# 1425
Delta R.T. -0.006 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

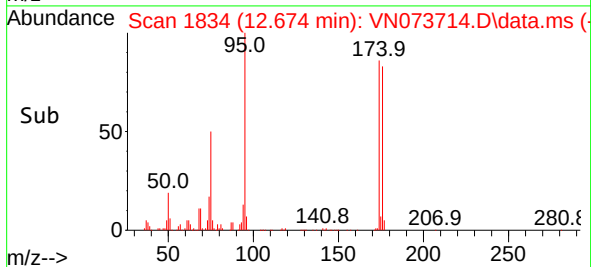
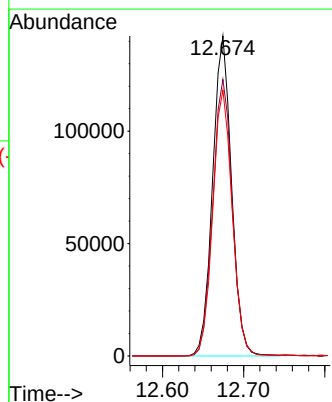
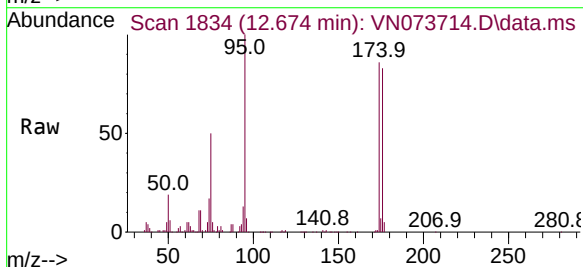
Instrument :
MSVOA_N
ClientSampleId :
SPN-4

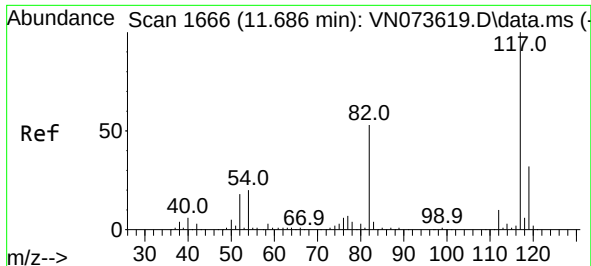
Tgt Ion: 43 Resp: 1397
Ion Ratio Lower Upper
43 100
58 21.1 34.1 51.1#



#62
4-Bromofluorobenzene
Concen: 49.979 ug/l
RT: 12.674 min Scan# 1834
Delta R.T. 0.000 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

Tgt Ion: 95 Resp: 230143
Ion Ratio Lower Upper
95 100
174 89.7 0.0 167.6
176 85.6 0.0 163.4

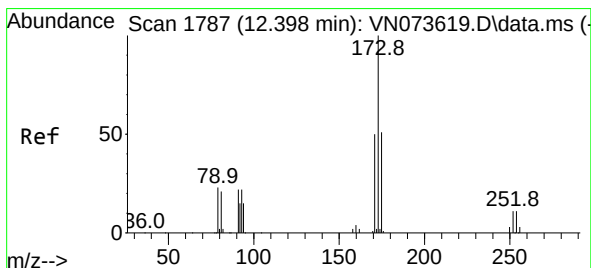
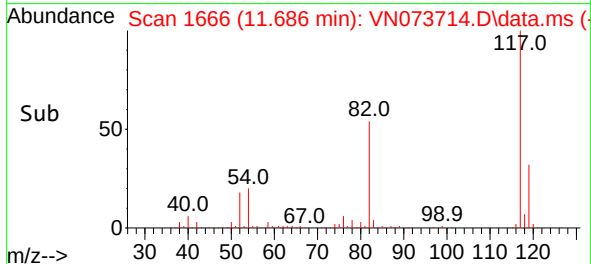
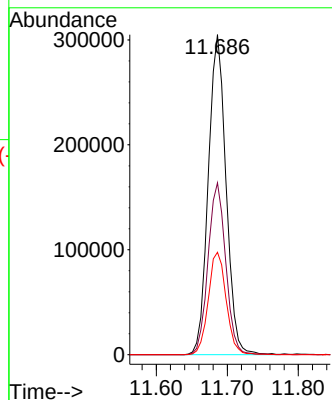
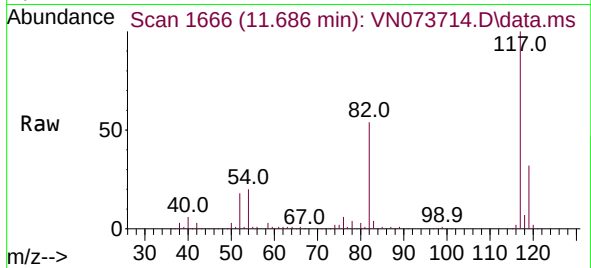




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.686 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

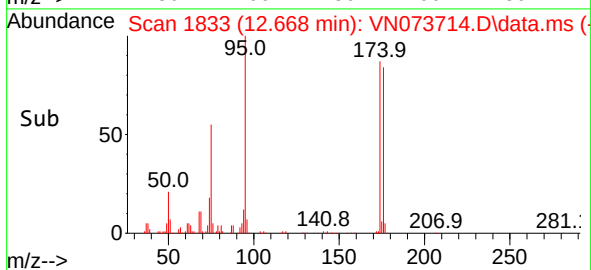
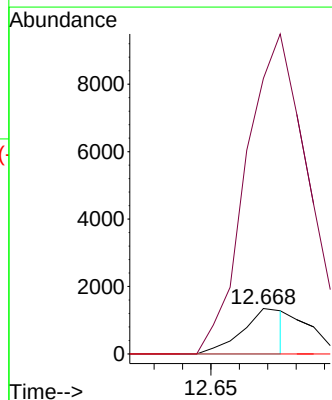
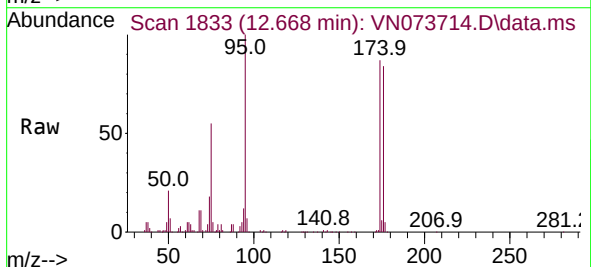
Instrument :
MSVOA_N
ClientSampleId :
SPN-4

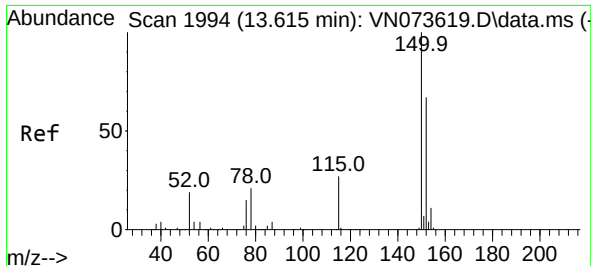
Tgt Ion:117 Resp: 529448
Ion Ratio Lower Upper
117 100
82 53.7 44.2 66.2
119 32.0 25.4 38.0



#71
Bromoform
Concen: 0.420 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN073714.D
Acq: 03 Aug 2022 16:14

Tgt Ion:173 Resp: 1400
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.6#
254 0.0 0.1 0.1#

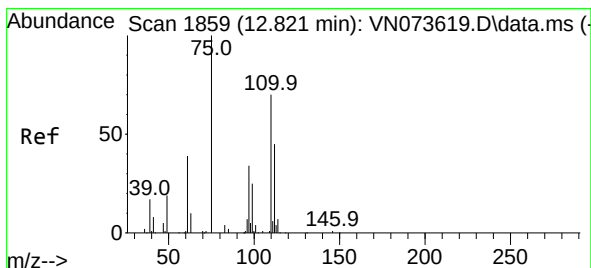
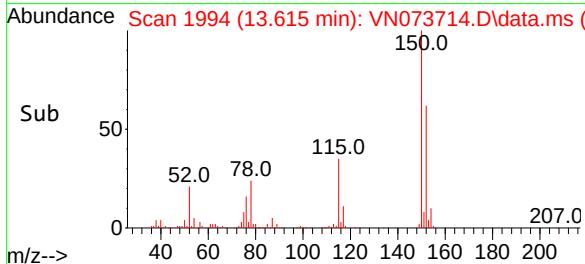
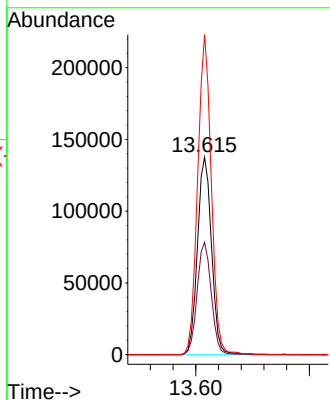
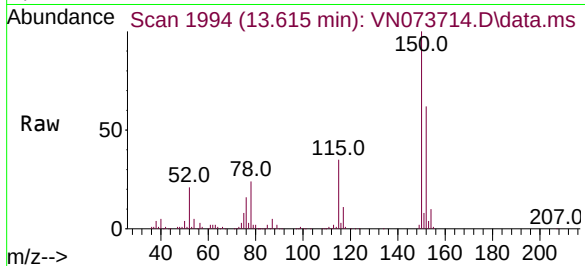




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.615 min Scan# 1994
 Delta R.T. 0.000 min
 Lab File: VN073714.D
 Acq: 03 Aug 2022 16:14

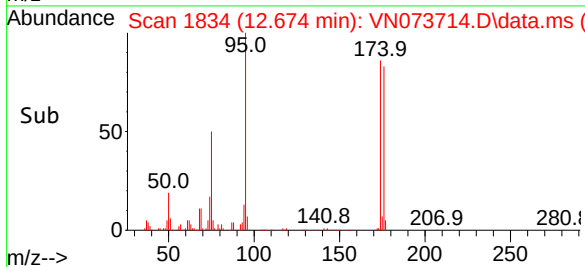
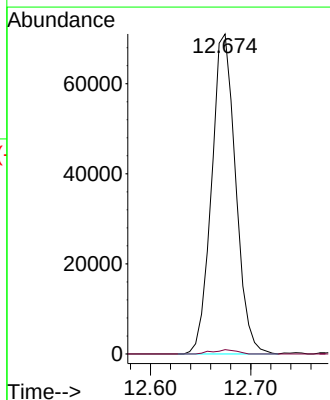
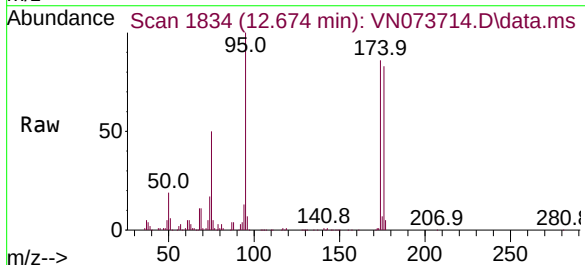
Instrument :
 MSVOA_N
 ClientSampleId :
 SPN-4

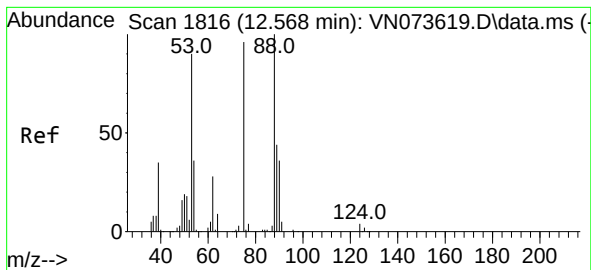
Tgt Ion:152 Resp: 237556
 Ion Ratio Lower Upper
 152 100
 115 57.3 28.9 86.7
 150 156.7 0.0 356.2



#76
 1,2,3-Trichloropropane
 Concen: 25.580 ug/l
 RT: 12.674 min Scan# 1834
 Delta R.T. -0.147 min
 Lab File: VN073714.D
 Acq: 03 Aug 2022 16:14

Tgt Ion: 75 Resp: 118172
 Ion Ratio Lower Upper
 75 100
 77 1.3 98.5 295.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 2.510 ug/l
 RT: 12.492 min Scan# 11
 Delta R.T. -0.076 min
 Lab File: VN073714.D
 Acq: 03 Aug 2022 16:14

Instrument :
 MSVOA_N
 ClientSampleId :
 SPN-4

Tgt Ion: 75 Resp: 4601
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 37.2 55.8#

