

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112524\
 Data File : VX043994.D
 Acq On : 25 Nov 2024 18:08
 Operator : JC/MD
 Sample : P4873-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FSND-MW-29-20241114

Quant Time: Nov 27 07:44:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X112124W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 22 03:45:52 2024
 Response via : Initial Calibration

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

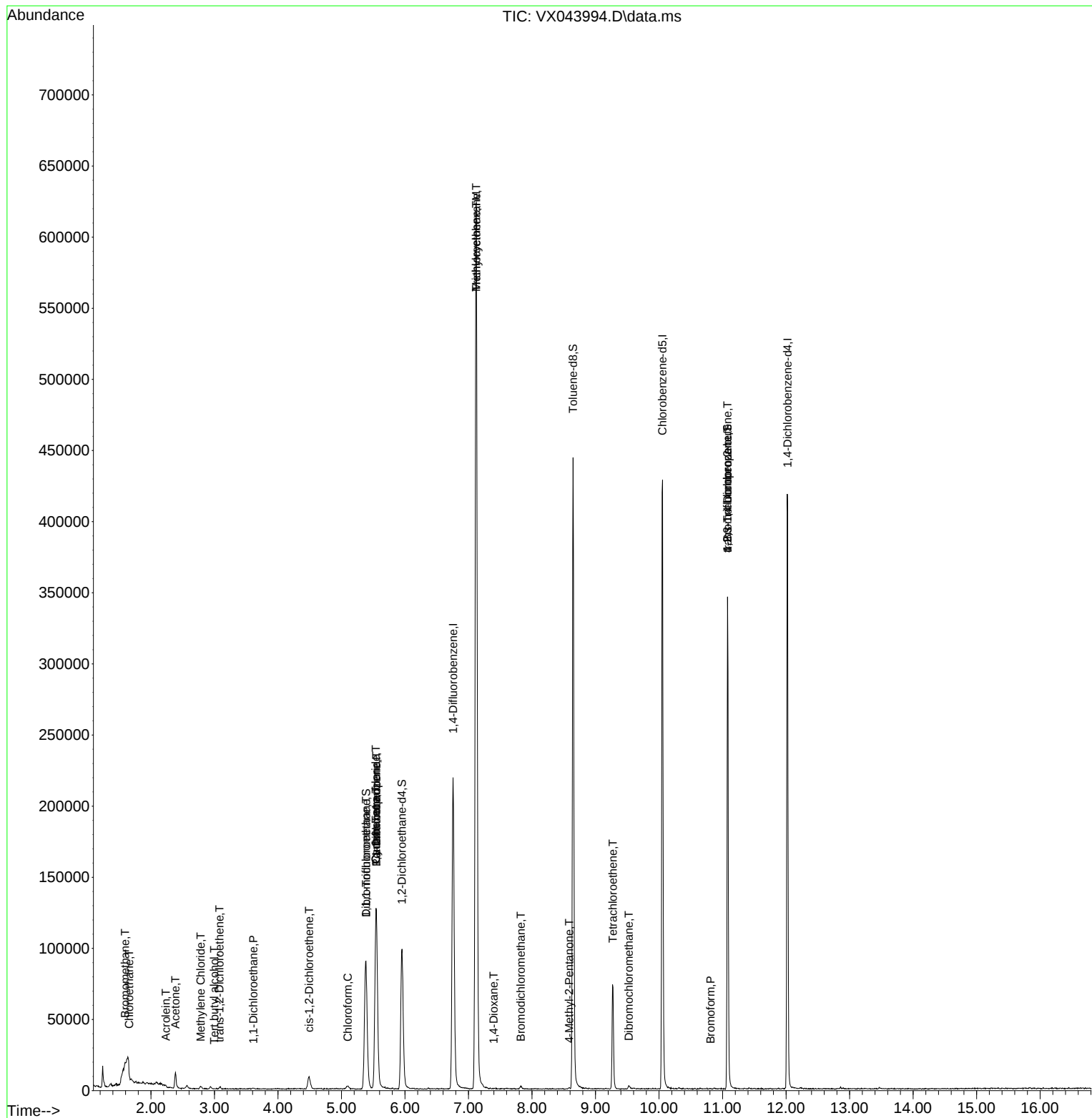
Internal Standards						
1) Pentafluorobenzene	5.550	168	112896	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	6.757	114	215968	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	189479	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	83328	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	97434	50.318	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 100.640%			
35) Dibromofluoromethane	5.385	113	73436	47.587	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.180%			
50) Toluene-d8	8.647	98	262792	49.401	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 98.800%			
62) 4-Bromofluorobenzene	11.079	95	88246	48.744	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 97.480%			
Target Compounds						
					Qvalue	
5) Bromomethane	1.593	94	306	0.311	ug/l #	3
6) Chloroethane	1.654	64	274	0.281	ug/l #	81
11) Tert butyl alcohol	2.995	59	66	0.212	ug/l #	73
13) Acrolein	2.233	56	201	0.614	ug/l	94
16) Acetone	2.386	43	12205	13.723	ug/l	97
20) Methylene Chloride	2.782	84	624	0.413	ug/l #	80
21) trans-1,2-Dichloroethene	3.081	96	518	0.386	ug/l	90
24) 1,1-Dichloroethane	3.611	63	628	0.239	ug/l #	82
27) cis-1,2-Dichloroethene	4.489	96	5547	3.341	ug/l	91
30) Chloroform	5.099	83	2172	0.770	ug/l	92
31) Cyclohexane	5.544	56	3212	1.488	ug/l #	8
32) 1,1,1-Trichloroethane	5.385	97	7204	2.962	ug/l	99
36) 1,1-Dichloropropene	5.550	75	10954	5.696	ug/l #	50
38) Carbon Tetrachloride	5.544	117	12583	5.823	ug/l #	16
39) Methylcyclohexane	7.123	83	3303	1.322	ug/l #	1
44) Trichloroethene	7.123	130	233374	137.626	ug/l	92
47) Bromodichloromethane	7.824	83	1603	0.770	ug/l #	85
49) 1,4-Dioxane	7.397	88	23	0.708	ug/l #	30
51) 4-Methyl-2-Pentanone	8.586	43	637	0.275	ug/l	90
60) Dibromochloromethane	9.525	129	1084	0.730	ug/l	89
64) Tetrachloroethene	9.275	164	13688	10.956	ug/l	96
71) Bromoform	10.811	173	82	1.287	ug/l #	29
76) 1,2,3-Trichloropropane	11.079	75	49016	26.823	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	49016	73.194	ug/l #	6

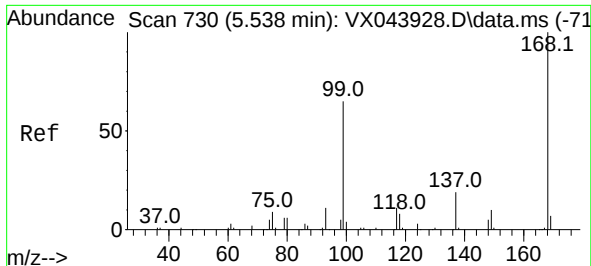
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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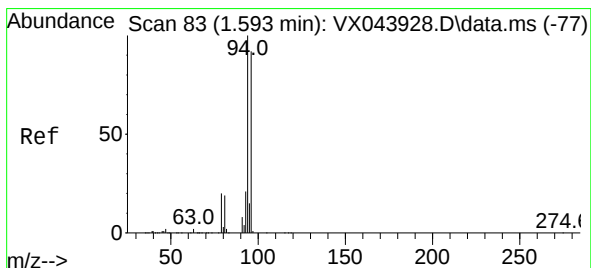
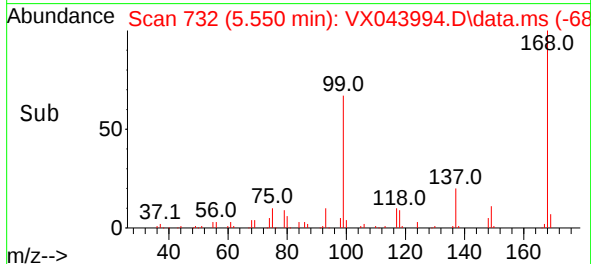
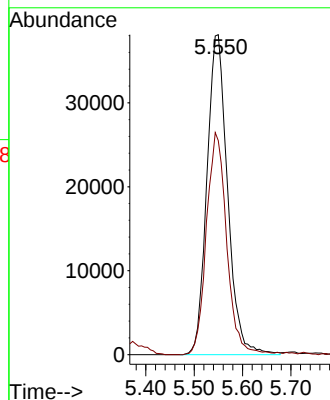
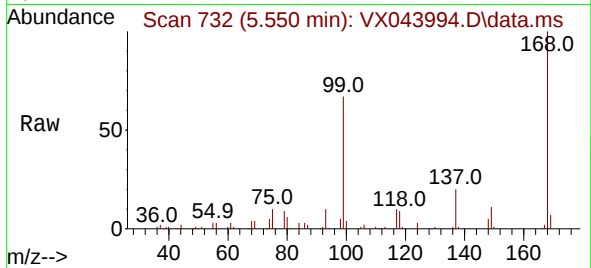




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 74
Delta R.T. 0.012 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

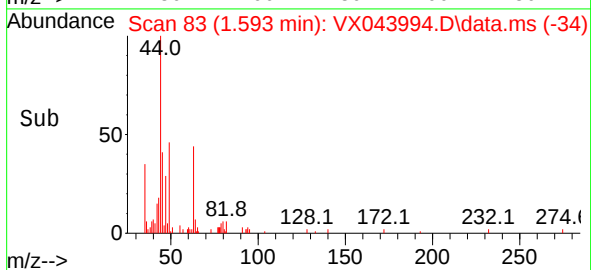
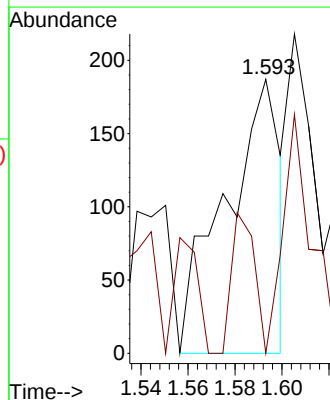
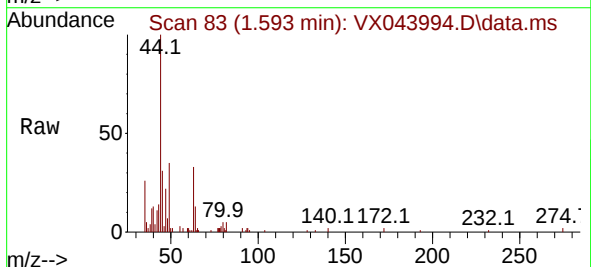
Instrument :
MSVOA_X
ClientSampleId :
FSND-MW-29-20241114

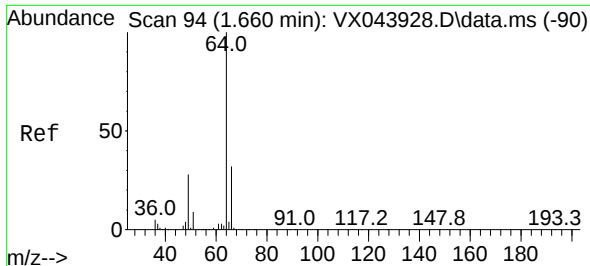
Tgt Ion:168 Resp: 112896
Ion Ratio Lower Upper
168 100
99 66.9 51.8 77.8



#5
Bromomethane
Concen: 0.311 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

Tgt Ion: 94 Resp: 306
Ion Ratio Lower Upper
94 100
96 0.0 73.9 110.9#

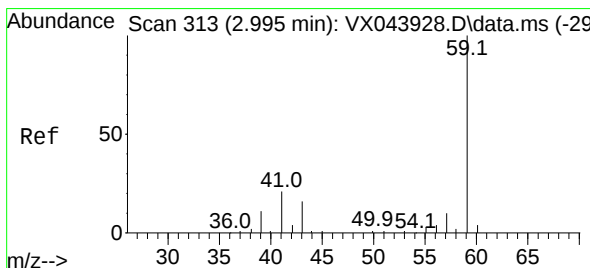
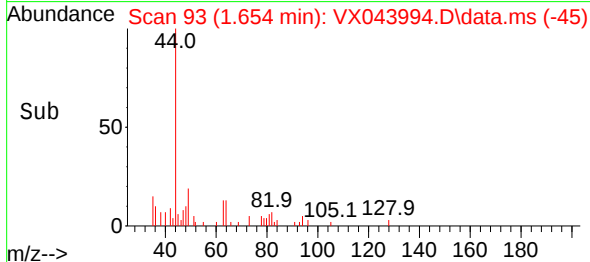
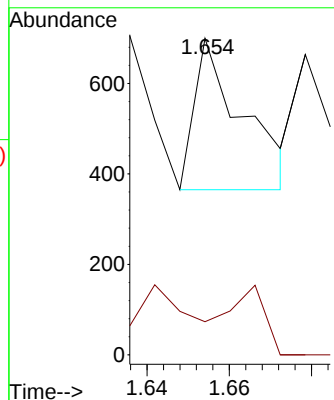
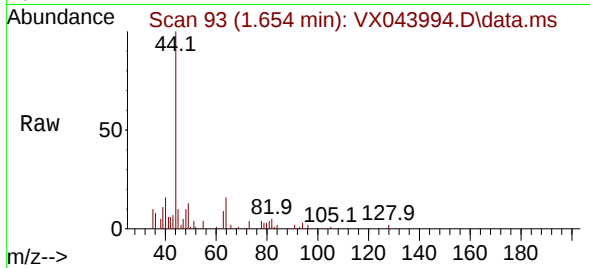




#6
Chloroethane
Concen: 0.281 ug/l
RT: 1.654 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

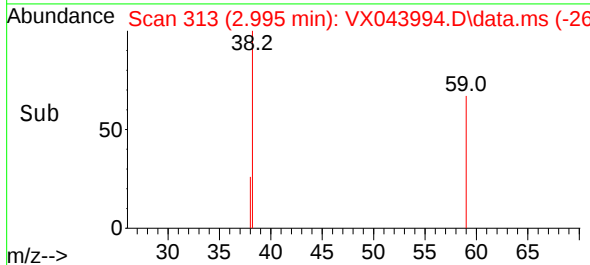
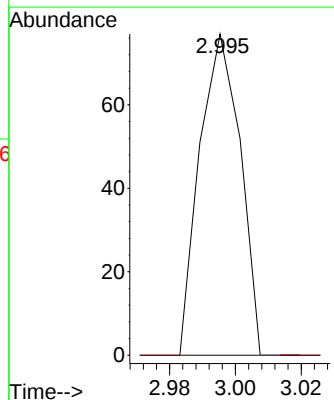
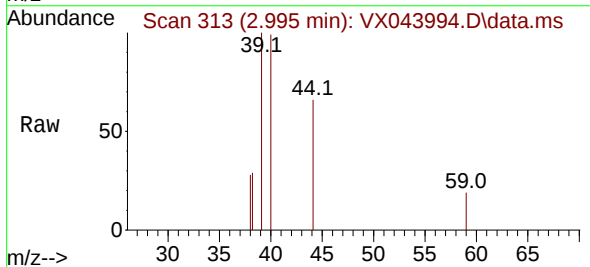
Instrument :
MSVOA_X
ClientSampleId :
FSND-MW-29-20241114

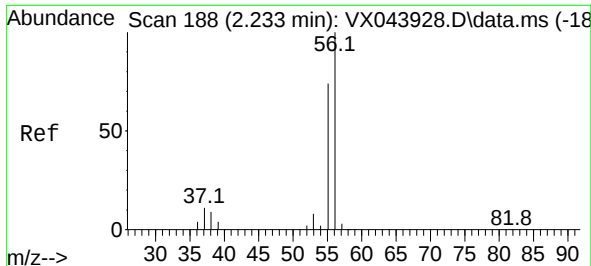
Tgt Ion: 64 Resp: 274
Ion Ratio Lower Upper
64 100
66 21.8 25.9 38.9#



#11
Tert butyl alcohol
Concen: 0.212 ug/l
RT: 2.995 min Scan# 313
Delta R.T. -0.000 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

Tgt Ion: 59 Resp: 66
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#





#13

Acrolein

Concen: 0.614 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Instrument :

MSVOA_X

ClientSampleId :

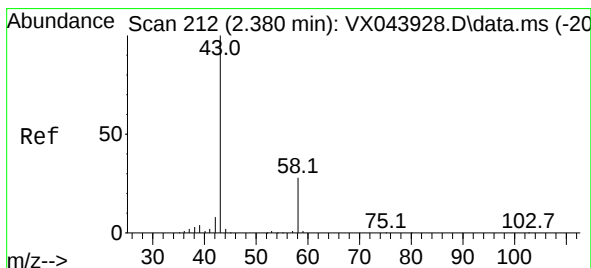
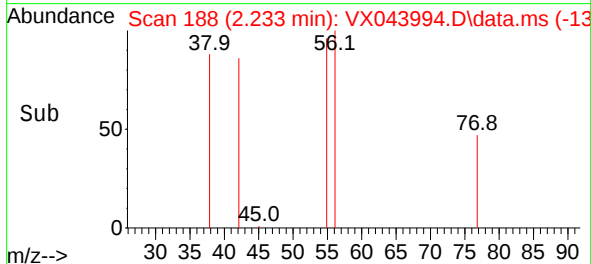
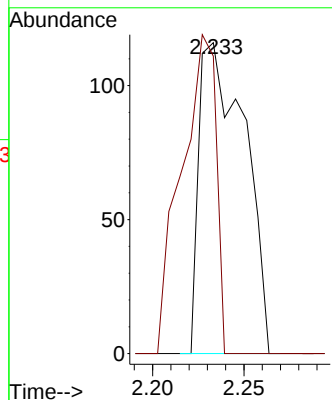
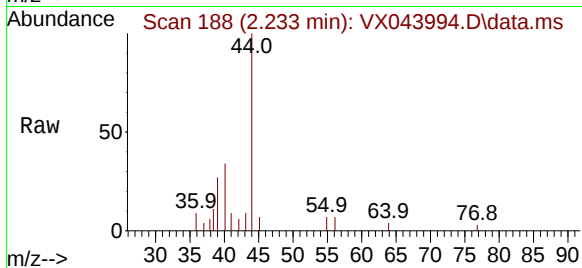
FSND-MW-29-20241114

Tgt Ion: 56 Resp: 201

Ion Ratio Lower Upper

56 100

55 78.1 58.2 87.2



#16

Acetone

Concen: 13.723 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX043994.D

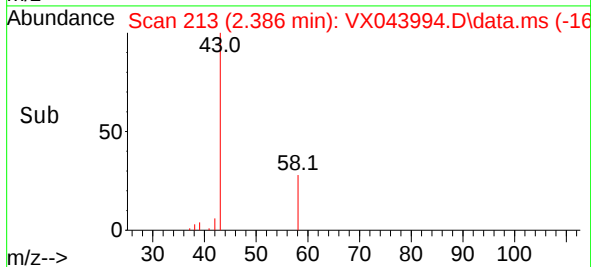
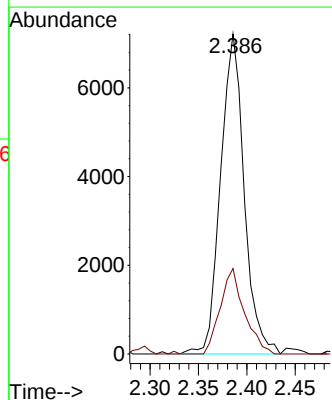
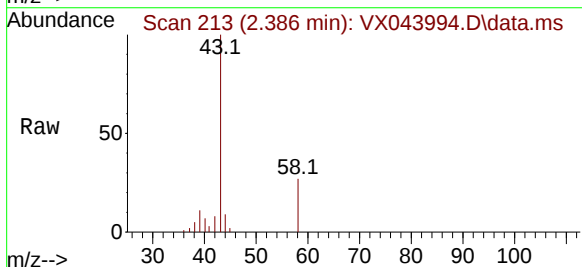
Acq: 25 Nov 2024 18:08

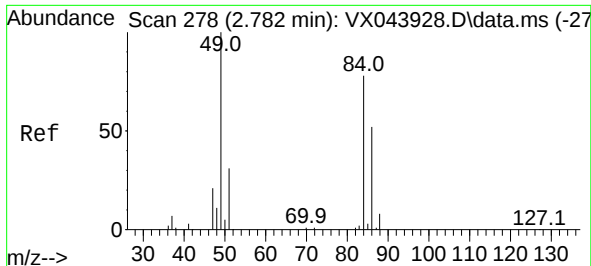
Tgt Ion: 43 Resp: 12205

Ion Ratio Lower Upper

43 100

58 26.7 22.7 34.1

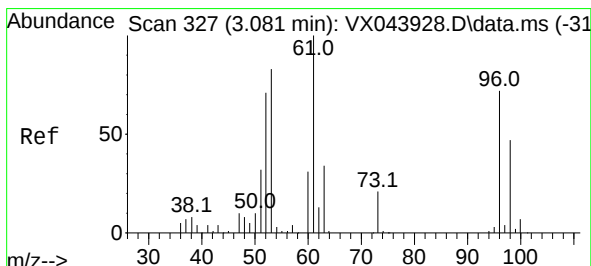
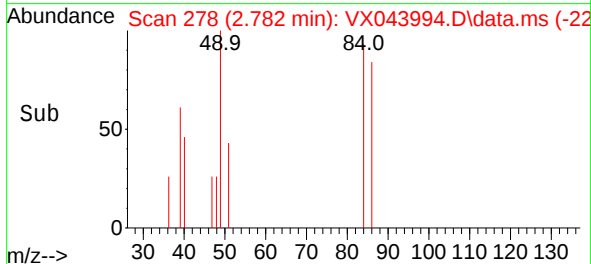
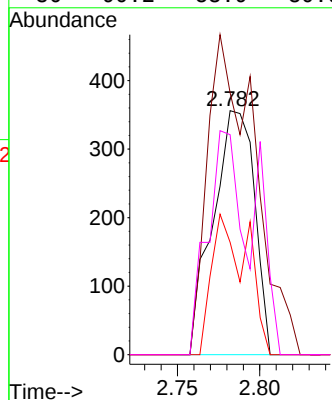
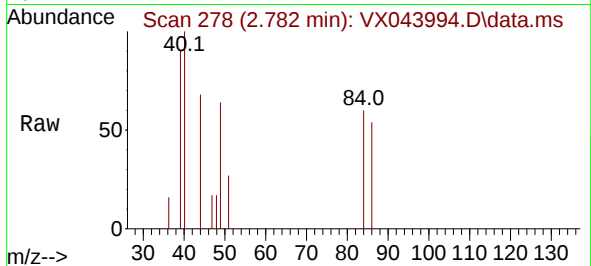




#20
Methylene Chloride
Concen: 0.413 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

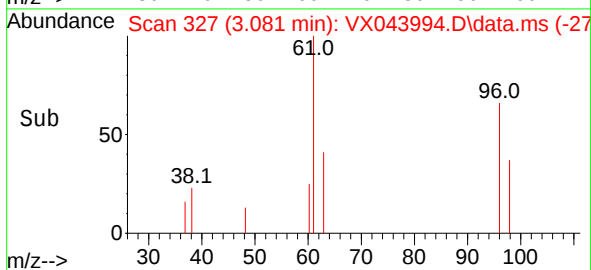
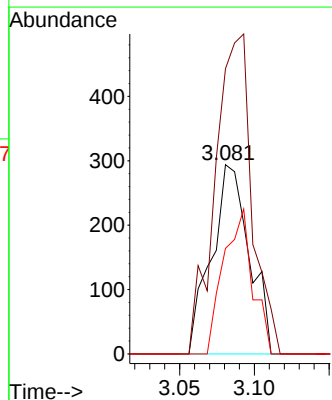
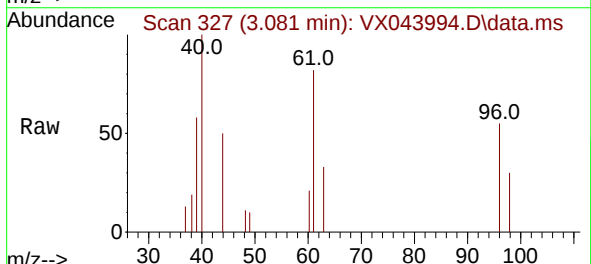
Instrument :
MSVOA_X
ClientSampleId :
FSND-MW-29-20241114

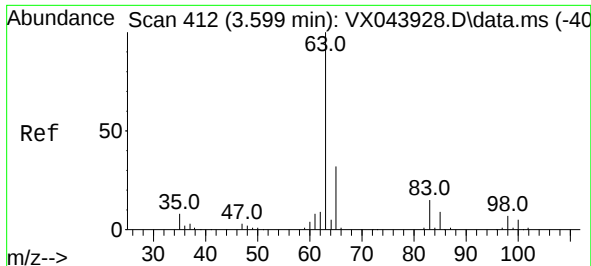
Tgt Ion:	84	Resp:	624
Ion	Ratio	Lower	Upper
84	100		
49	107.3	102.7	154.1
51	46.1	31.7	47.5
86	90.2	53.9	80.9



#21
trans-1,2-Dichloroethene
Concen: 0.386 ug/l
RT: 3.081 min Scan# 327
Delta R.T. -0.000 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

Tgt Ion:	96	Resp:	518
Ion	Ratio	Lower	Upper
96	100		
61	150.7	111.8	167.6
98	55.8	52.7	79.1

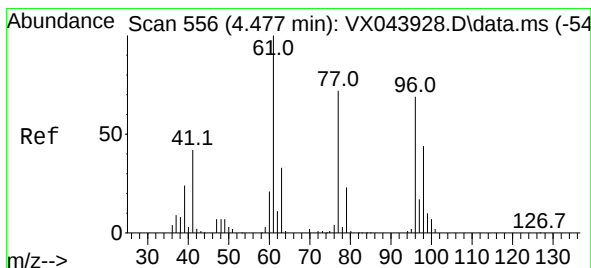
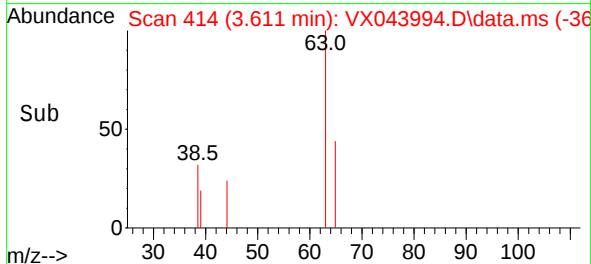
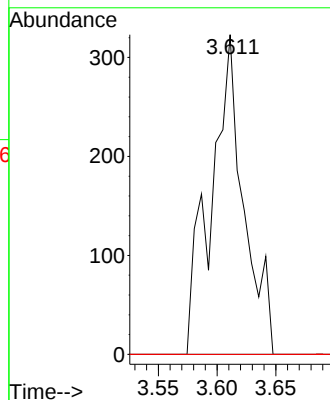
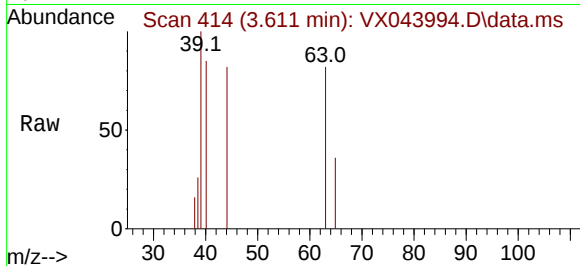




#24
1,1-Dichloroethane
Concen: 0.239 ug/l
RT: 3.611 min Scan# 411
Delta R.T. 0.012 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

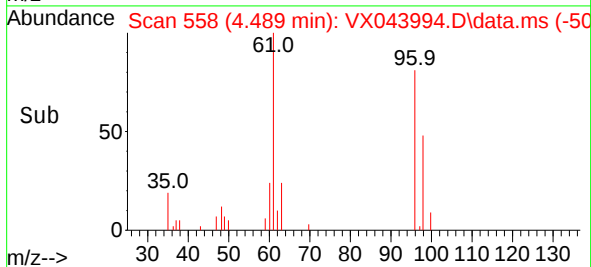
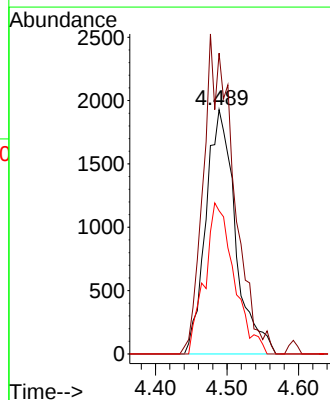
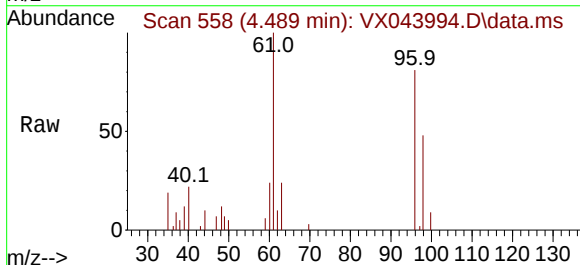
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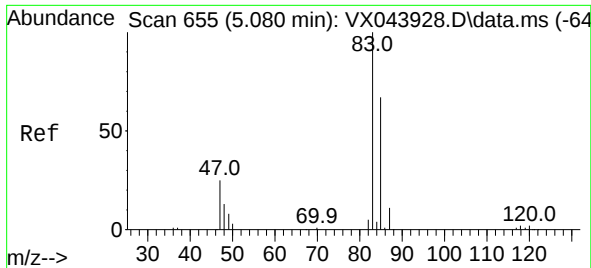
Tgt Ion: 63 Resp: 628
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.6#
100 0.0 2.4 7.1#



#27
cis-1,2-Dichloroethene
Concen: 3.341 ug/l
RT: 4.489 min Scan# 558
Delta R.T. 0.012 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

Tgt Ion: 96 Resp: 5547
Ion Ratio Lower Upper
96 100
61 134.3 0.0 297.4
98 61.2 0.0 127.8





#30

Chloroform

Concen: 0.770 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.018 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Instrument :

MSVOA_X

ClientSampleId :

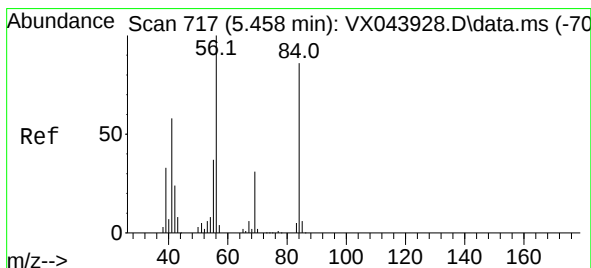
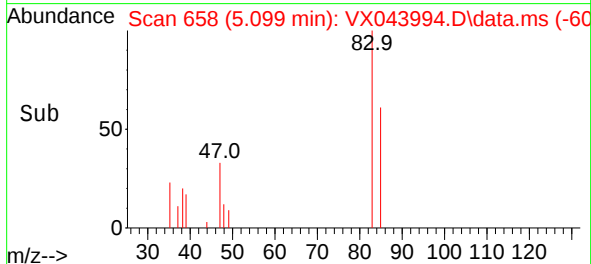
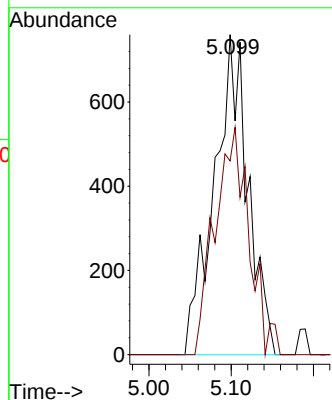
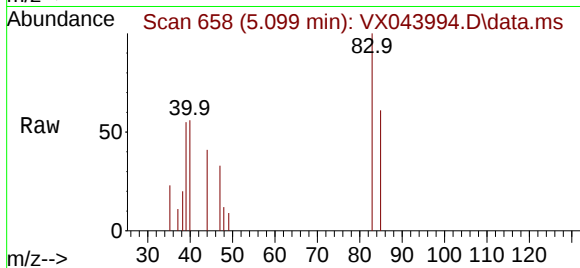
FSND-MW-29-20241114

Tgt Ion: 83 Resp: 2172

Ion Ratio Lower Upper

83 100

85 60.5 53.5 80.3



#31

Cyclohexane

Concen: 1.488 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.085 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

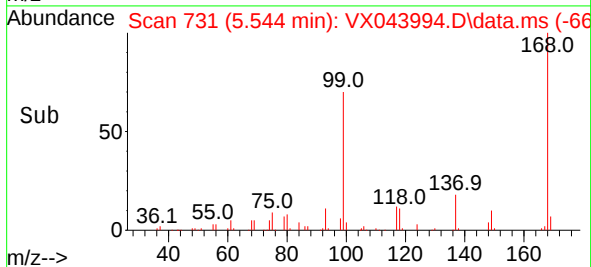
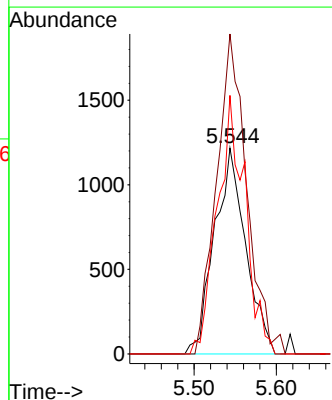
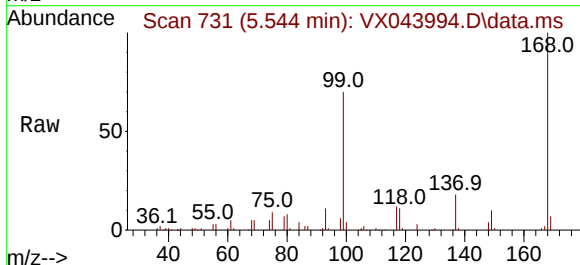
Tgt Ion: 56 Resp: 3212

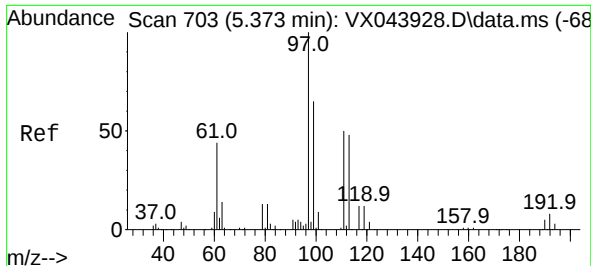
Ion Ratio Lower Upper

56 100

69 155.5 24.7 37.1#

84 125.6 68.7 103.1#





#32

1,1,1-Trichloroethane

Concen: 2.962 ug/l

RT: 5.385 min Scan# 703

Delta R.T. 0.012 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Instrument :

MSVOA_X

ClientSampleId :

FSND-MW-29-20241114

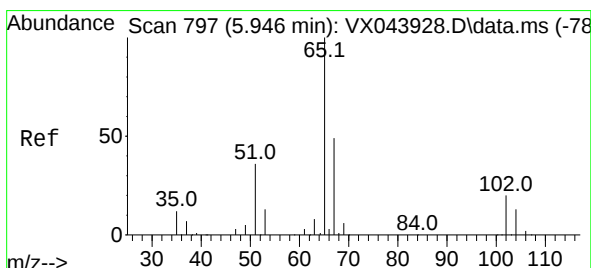
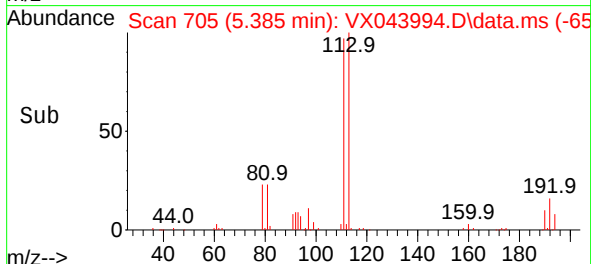
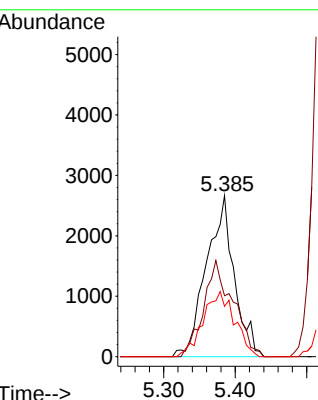
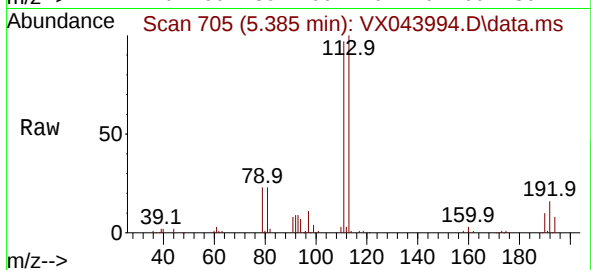
Tgt Ion: 97 Resp: 7204

Ion Ratio Lower Upper

97 100

99 63.2 50.8 76.2

61 45.8 35.4 53.2



#33

1,2-Dichloroethane-d4

Concen: 50.318 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX043994.D

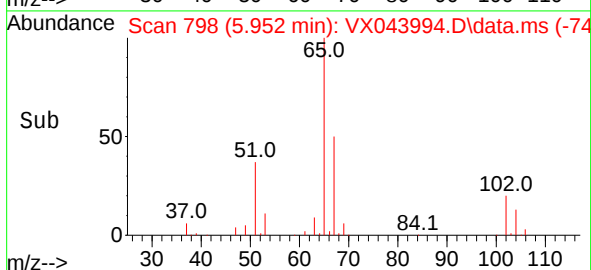
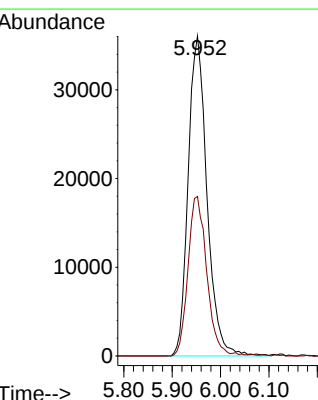
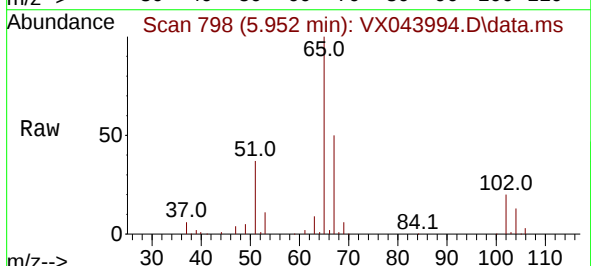
Acq: 25 Nov 2024 18:08

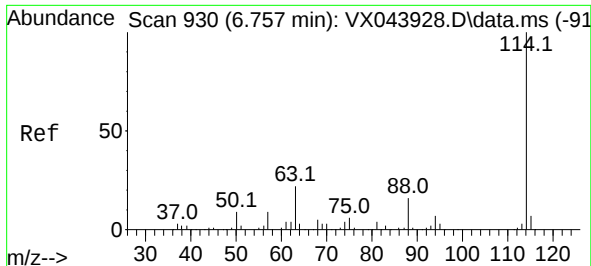
Tgt Ion: 65 Resp: 97434

Ion Ratio Lower Upper

65 100

67 49.8 0.0 100.8

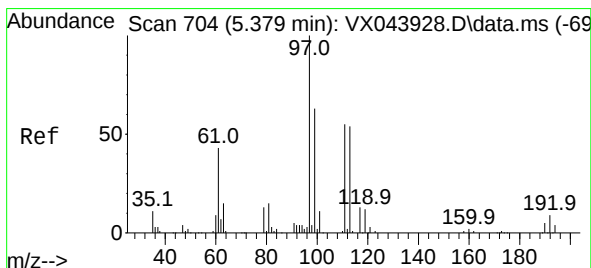
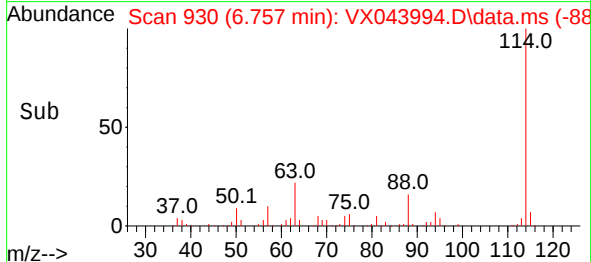
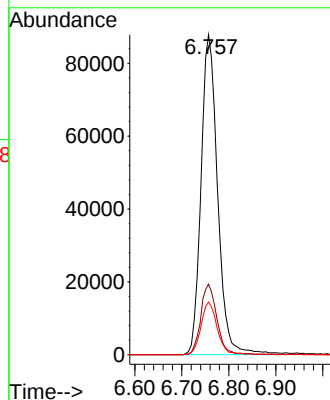
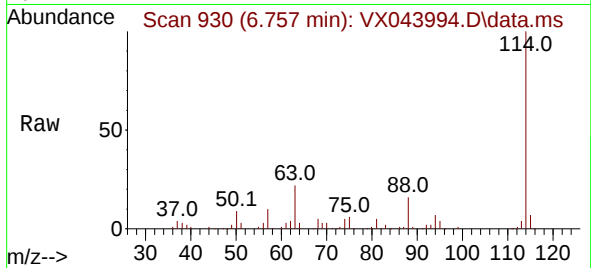




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

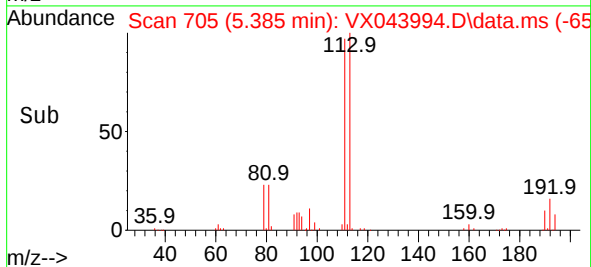
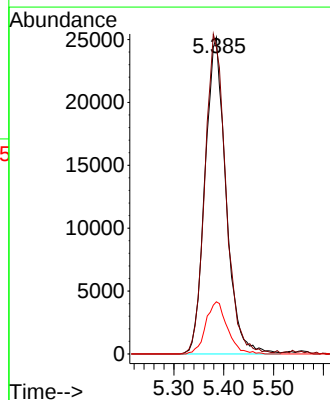
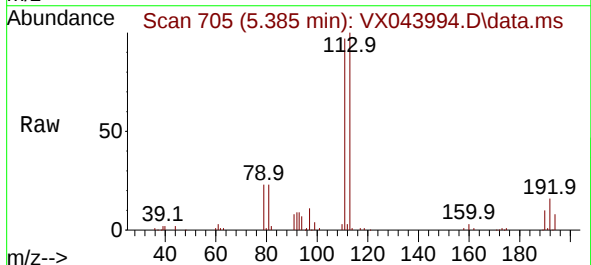
Instrument :
MSVOA_X
ClientSampleId :
FSND-MW-29-20241114

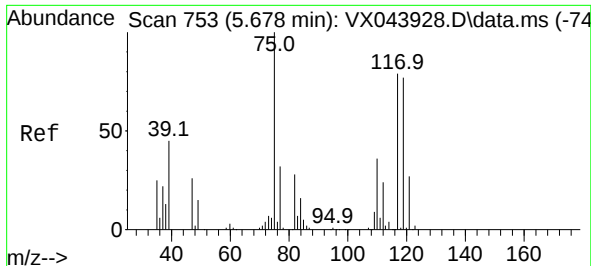
Tgt Ion:114 Resp: 215968
Ion Ratio Lower Upper
114 100
63 22.0 0.0 44.0
88 16.4 0.0 32.4



#35
Dibromofluoromethane
Concen: 47.587 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.006 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

Tgt Ion:113 Resp: 73436
Ion Ratio Lower Upper
113 100
111 101.2 81.0 121.4
192 17.0 13.0 19.6





#36

1,1-Dichloropropene

Concen: 5.696 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.128 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Instrument :

MSVOA_X

ClientSampleId :

FSND-MW-29-20241114

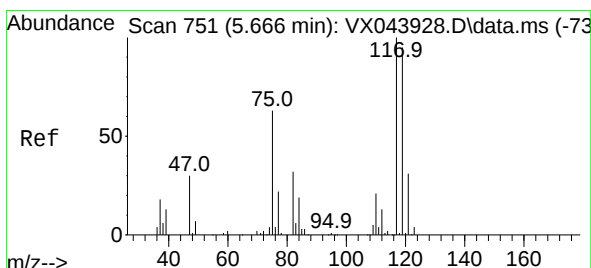
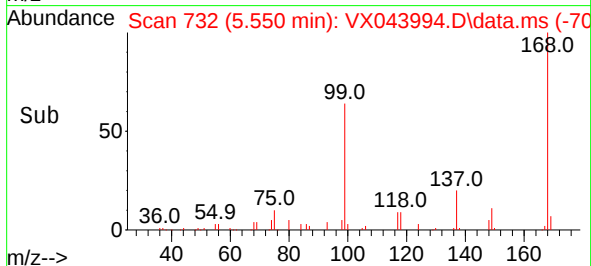
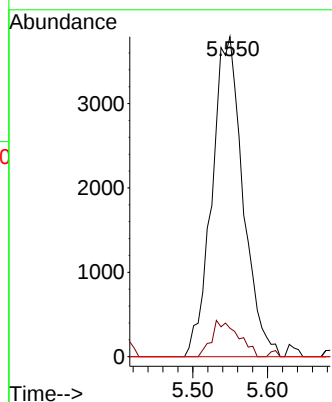
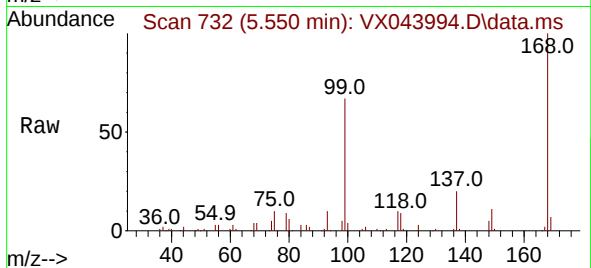
Tgt Ion: 75 Resp: 10954

Ion Ratio Lower Upper

75 100

110 9.7 17.4 52.2#

77 0.0 25.8 38.8#



#38

Carbon Tetrachloride

Concen: 5.823 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.122 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

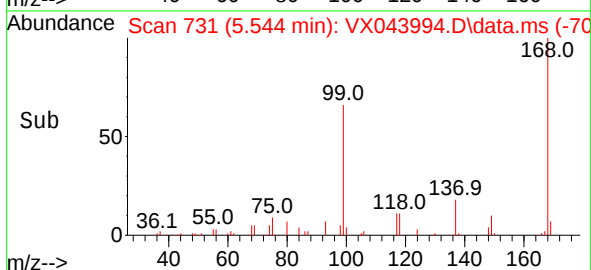
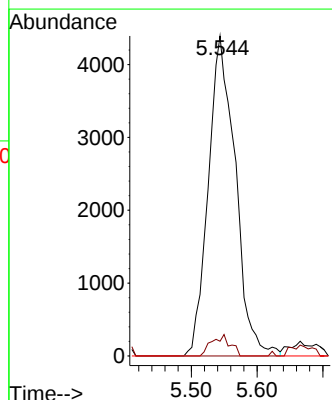
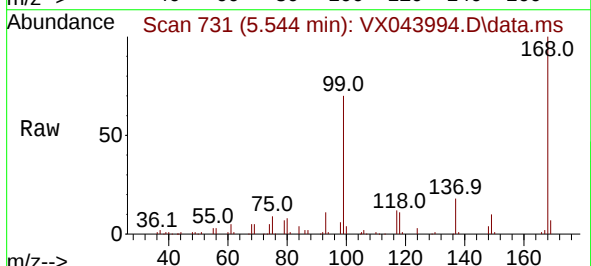
Tgt Ion:117 Resp: 12583

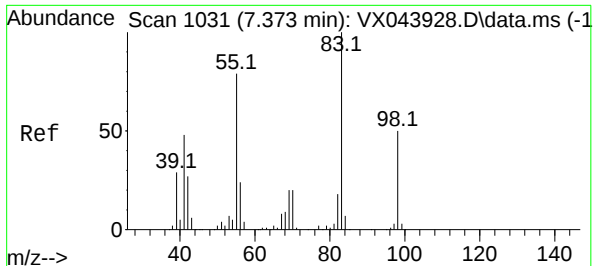
Ion Ratio Lower Upper

117 100

119 4.6 75.2 112.8#

121 0.0 24.5 36.7#





#39

Methylcyclohexane

Concen: 1.322 ug/l

RT: 7.123 min Scan# 990

Delta R.T. -0.250 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Instrument :

MSVOA_X

ClientSampleId :

FSND-MW-29-20241114

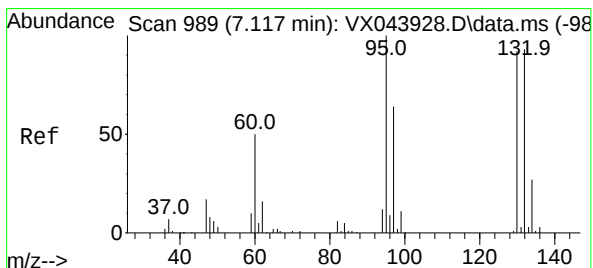
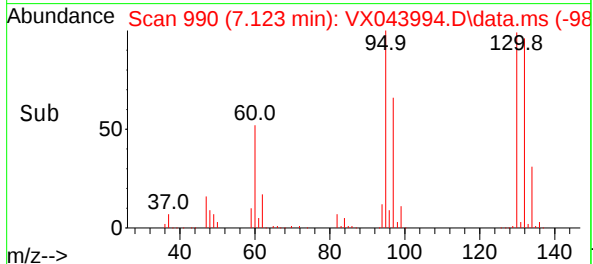
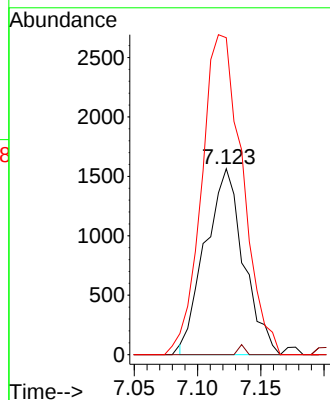
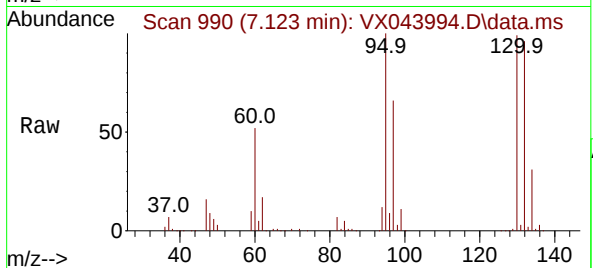
Tgt Ion: 83 Resp: 3303

Ion Ratio Lower Upper

83 100

55 0.0 63.1 94.7#

98 170.5 40.0 60.0#



#44

Trichloroethene

Concen: 137.626 ug/l

RT: 7.123 min Scan# 990

Delta R.T. 0.006 min

Lab File: VX043994.D

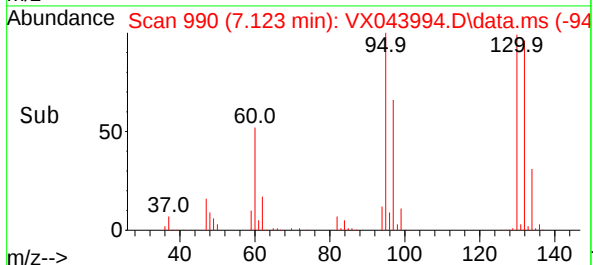
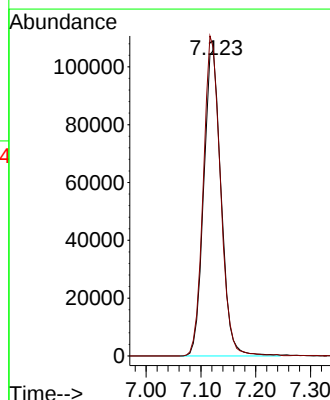
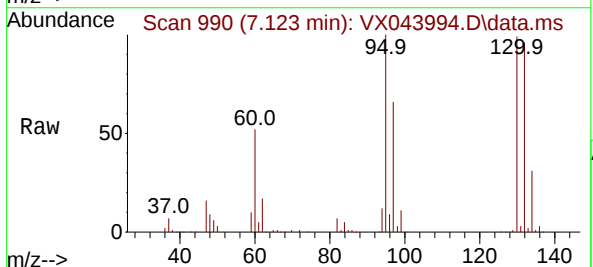
Acq: 25 Nov 2024 18:08

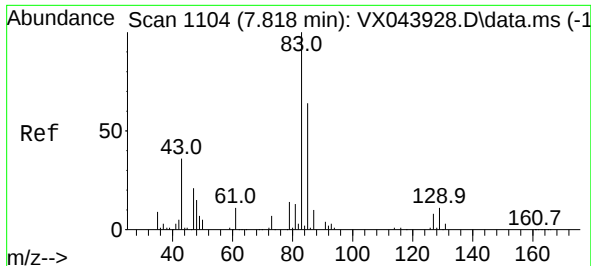
Tgt Ion:130 Resp: 233374

Ion Ratio Lower Upper

130 100

95 100.8 0.0 217.8

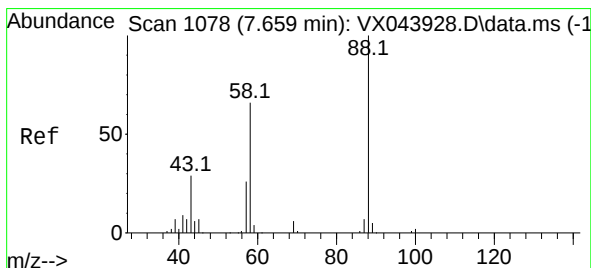
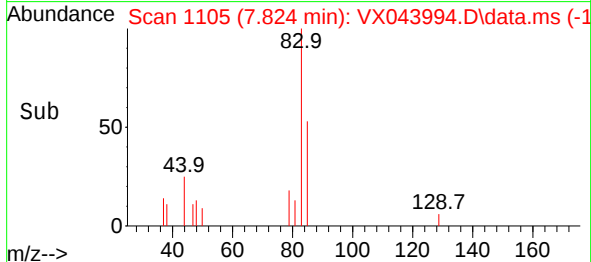
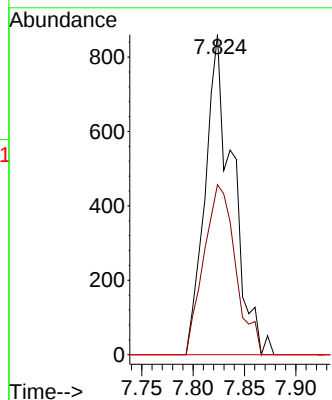
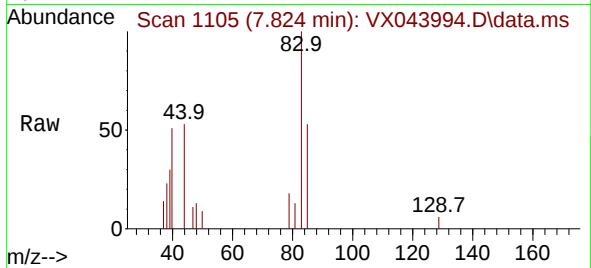




#47
Bromodichloromethane
Concen: 0.770 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.006 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

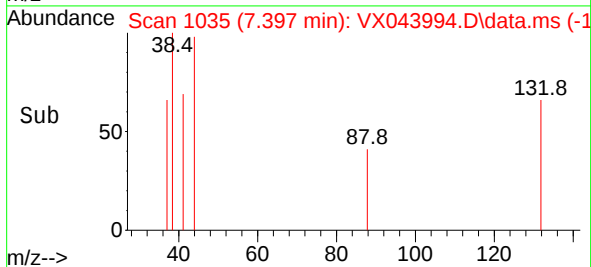
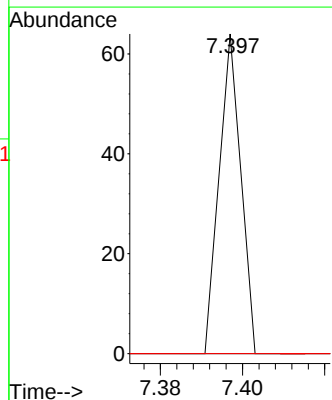
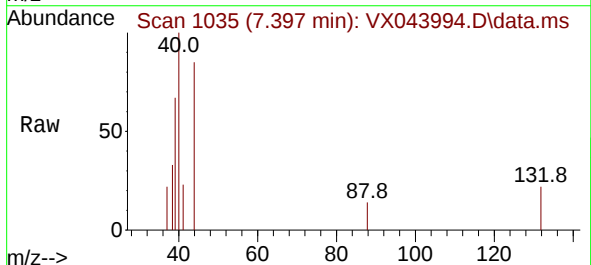
Instrument :
MSVOA_X
ClientSampleId :
FSND-MW-29-20241114

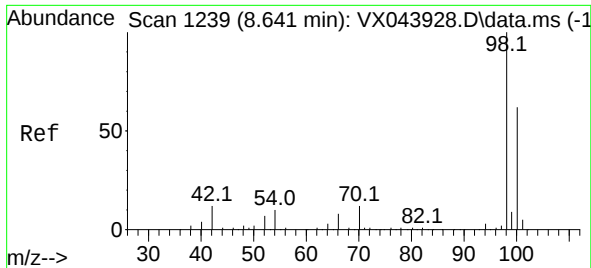
Tgt Ion: 83 Resp: 1603
Ion Ratio Lower Upper
83 100
85 53.1 51.4 77.0
127 0.0 6.6 10.0#



#49
1,4-Dioxane
Concen: 0.708 ug/l
RT: 7.397 min Scan# 1035
Delta R.T. -0.262 min
Lab File: VX043994.D
Acq: 25 Nov 2024 18:08

Tgt Ion: 88 Resp: 23
Ion Ratio Lower Upper
88 100
43 0.0 26.8 40.2#
58 0.0 45.4 68.2#





#50

Toluene-d8

Concen: 49.401 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Instrument :

MSVOA_X

ClientSampleId :

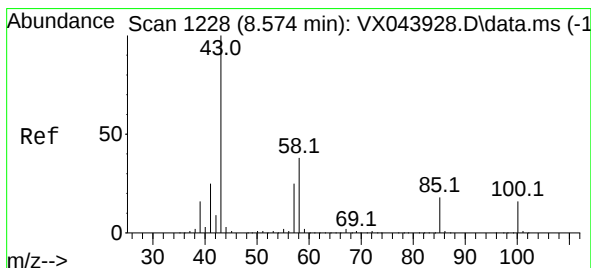
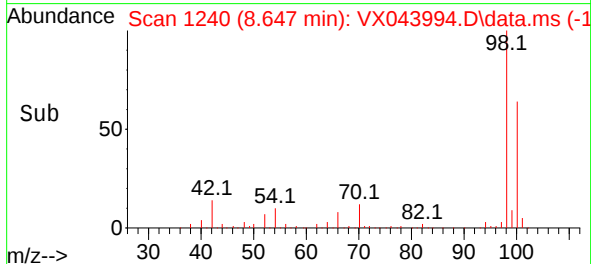
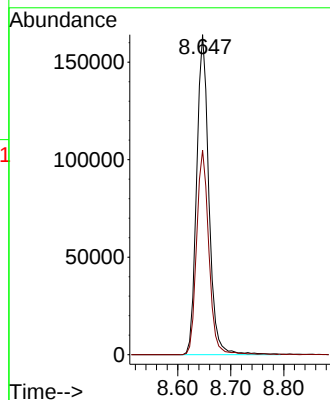
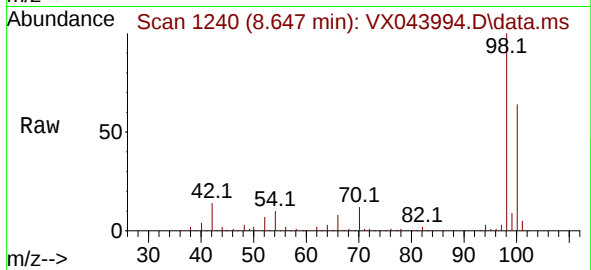
FSND-MW-29-20241114

Tgt Ion: 98 Resp: 262792

Ion Ratio Lower Upper

98 100

100 63.9 52.6 79.0



#51

4-Methyl-2-Pentanone

Concen: 0.275 ug/l

RT: 8.586 min Scan# 1230

Delta R.T. 0.012 min

Lab File: VX043994.D

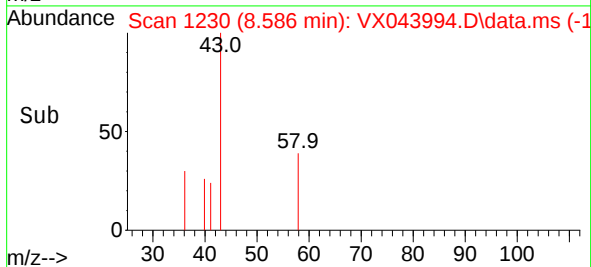
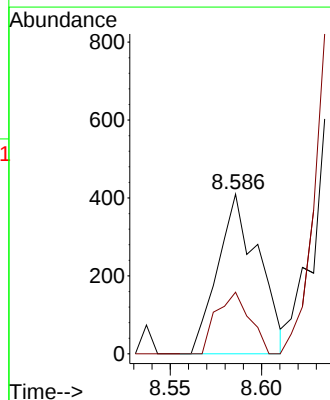
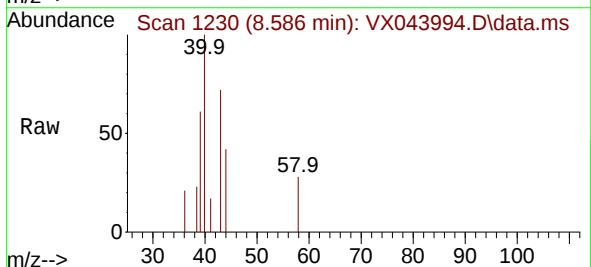
Acq: 25 Nov 2024 18:08

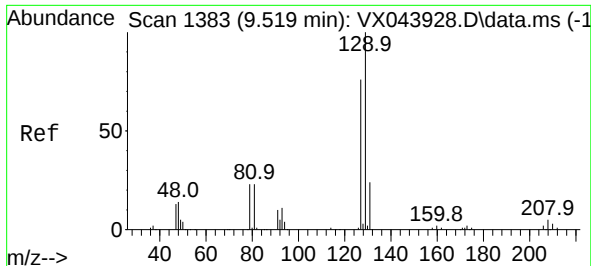
Tgt Ion: 43 Resp: 637

Ion Ratio Lower Upper

43 100

58 31.7 30.0 45.0





#60

Dibromochloromethane

Concen: 0.730 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. 0.006 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Instrument :

MSVOA_X

ClientSampleId :

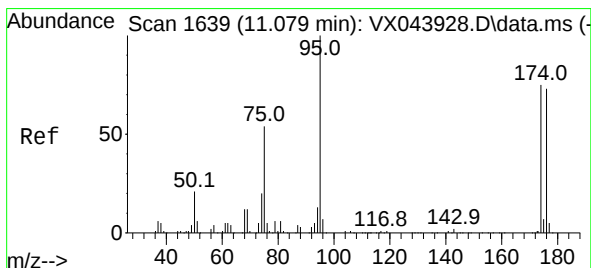
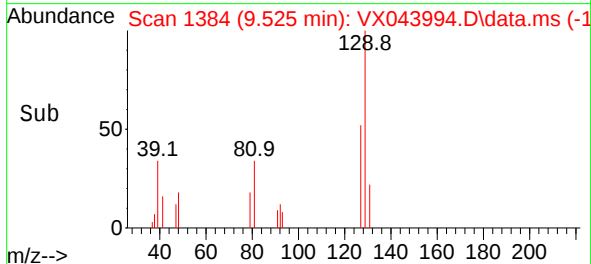
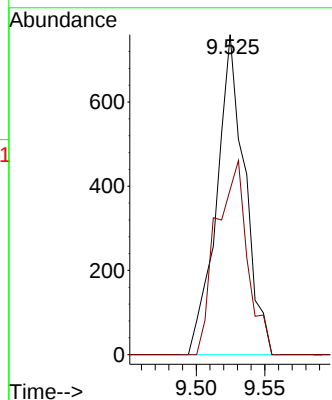
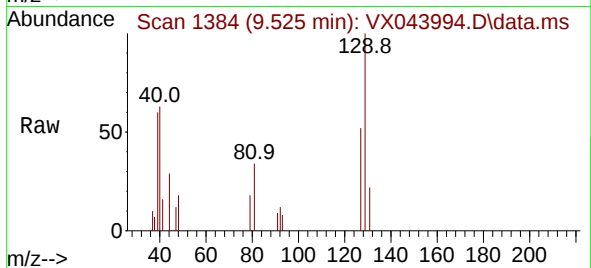
FSND-MW-29-20241114

Tgt Ion:129 Resp: 1084

Ion Ratio Lower Upper

129 100

127 67.3 38.2 114.6



#62

4-Bromofluorobenzene

Concen: 48.744 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.000 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

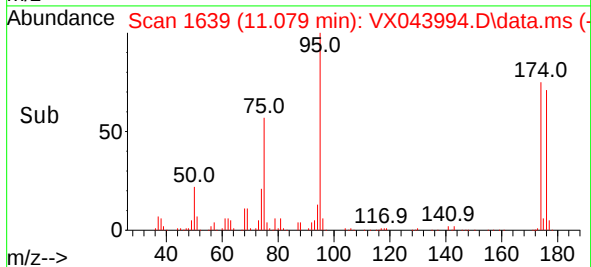
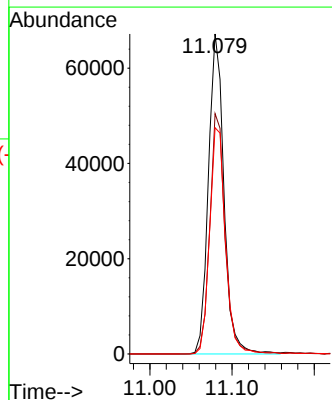
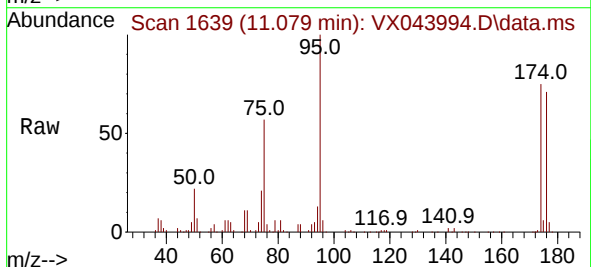
Tgt Ion: 95 Resp: 88246

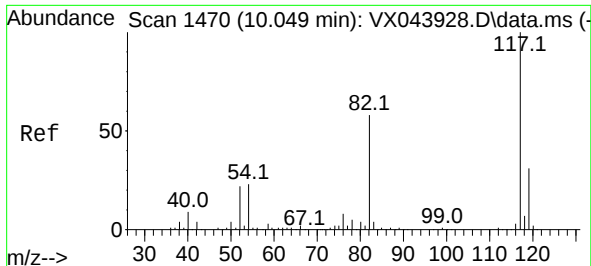
Ion Ratio Lower Upper

95 100

174 73.8 0.0 150.4

176 72.1 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Instrument :

MSVOA_X

ClientSampleId :

FSND-MW-29-20241114

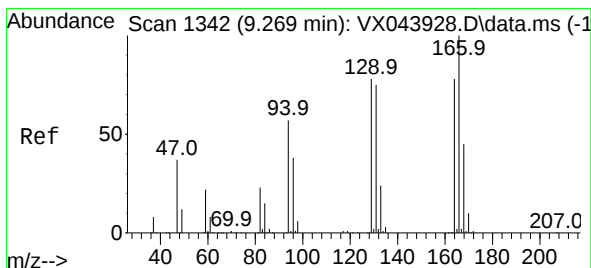
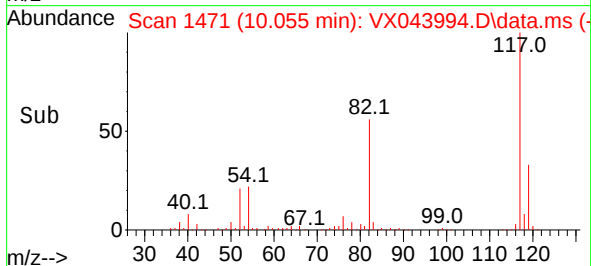
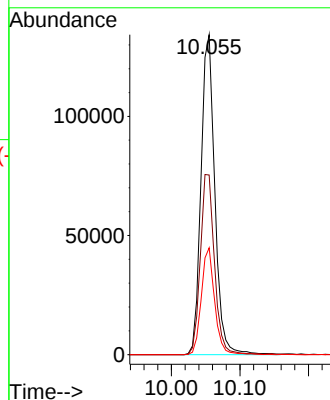
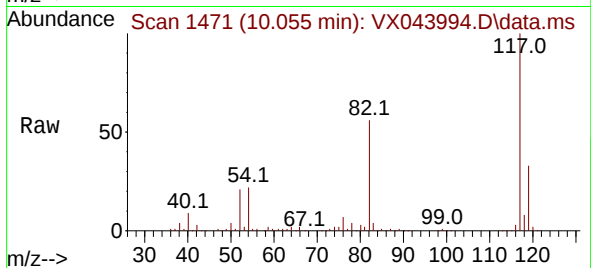
Tgt Ion:117 Resp: 189479

Ion Ratio Lower Upper

117 100

82 56.1 46.4 69.6

119 33.4 24.6 37.0



#64

Tetrachloroethene

Concen: 10.956 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. 0.006 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Tgt Ion:164 Resp: 13688

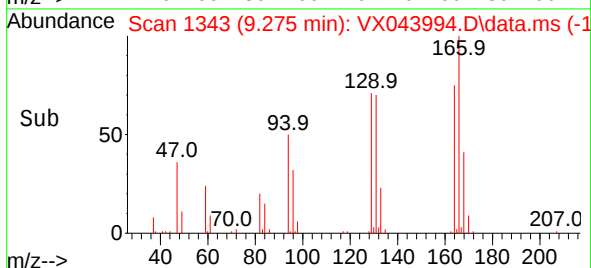
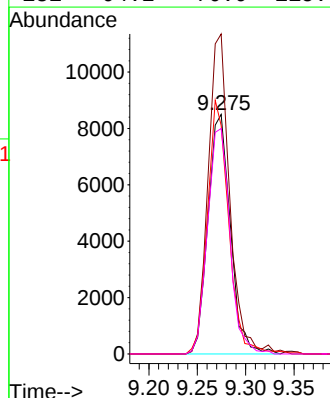
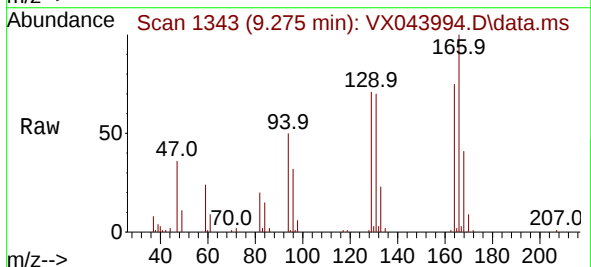
Ion Ratio Lower Upper

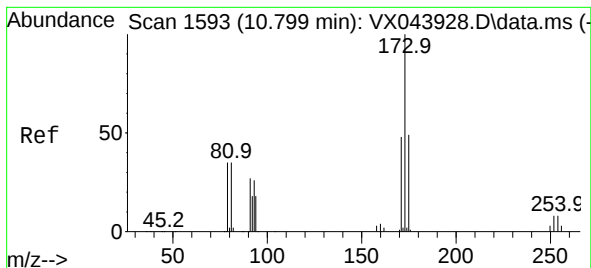
164 100

166 133.6 102.1 153.1

129 95.4 79.6 119.4

131 94.2 76.9 115.3





#71

Bromoform

Concen: 1.287 ug/l

RT: 10.811 min Scan# 1595

Delta R.T. 0.012 min

Lab File: VX043994.D

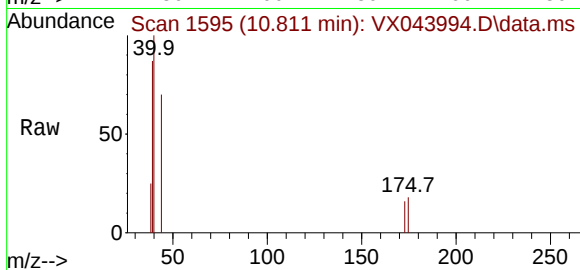
Acq: 25 Nov 2024 18:08

Instrument :

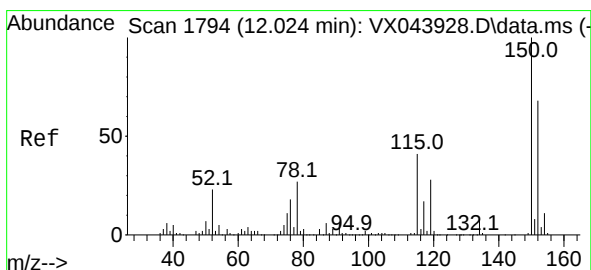
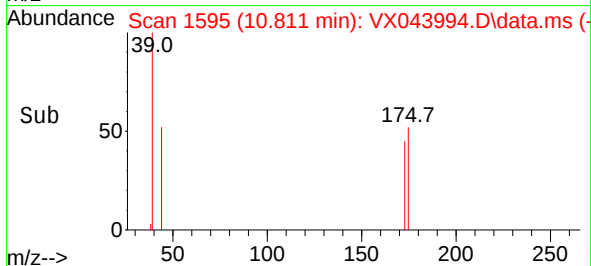
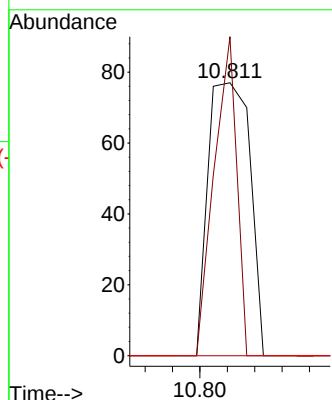
MSVOA_X

ClientSampleId :

FSND-MW-29-20241114



Tgt Ion:	173	Resp:	82
Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.1	72.2#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

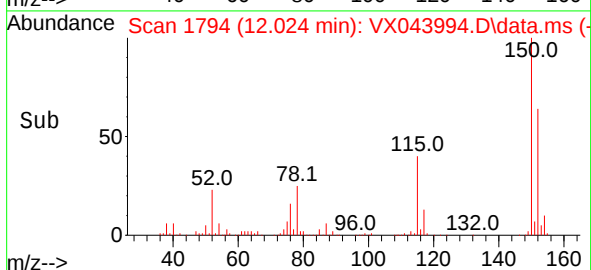
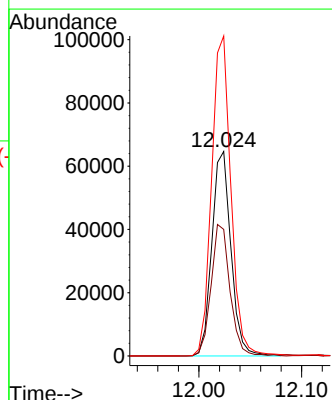
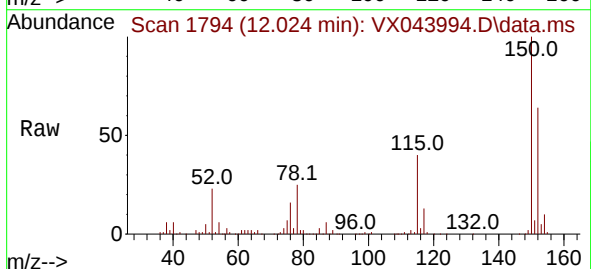
RT: 12.024 min Scan# 1794

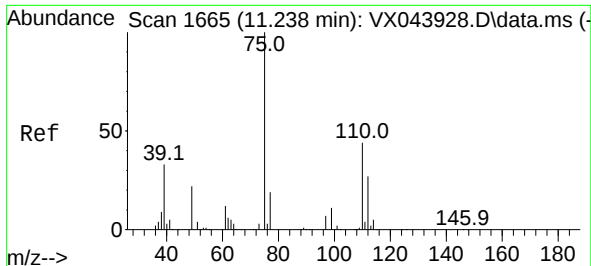
Delta R.T. -0.000 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Tgt Ion:	152	Resp:	83328
Ion	Ratio	Lower	Upper
152	100		
115	63.8	45.4	136.2
150	158.2	0.0	353.0





#76

1,2,3-Trichloropropane

Concen: 26.823 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Instrument :

MSVOA_X

ClientSampleId :

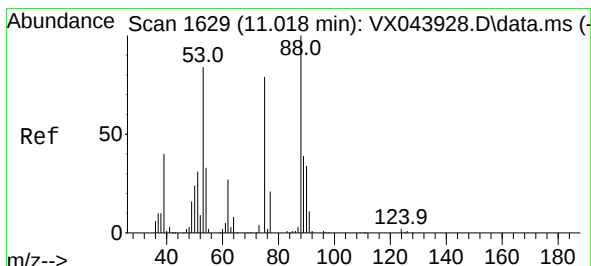
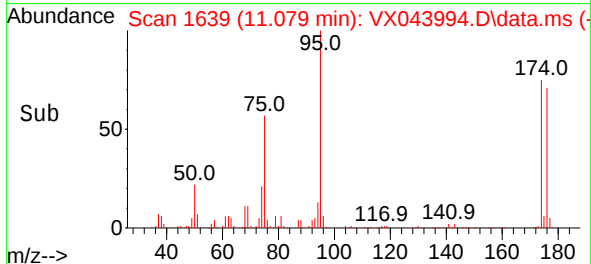
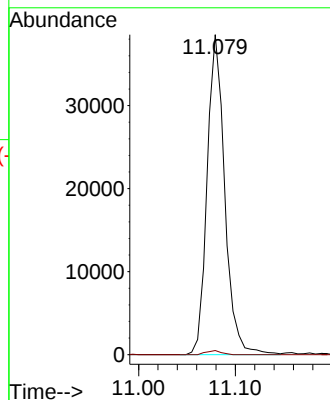
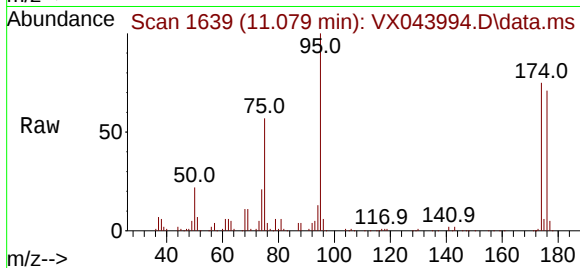
FSND-MW-29-20241114

Tgt Ion: 75 Resp: 49016

Ion Ratio Lower Upper

75 100

77 1.1 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.194 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX043994.D

Acq: 25 Nov 2024 18:08

Tgt Ion: 75 Resp: 49016

Ion Ratio Lower Upper

75 100

53 0.0 86.7 130.1#

89 0.0 38.2 57.2#

