

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011625\
 Data File : VX044669.D
 Acq On : 16 Jan 2025 13:33
 Operator :
 Sample : Q1083-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 17 01:31:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

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

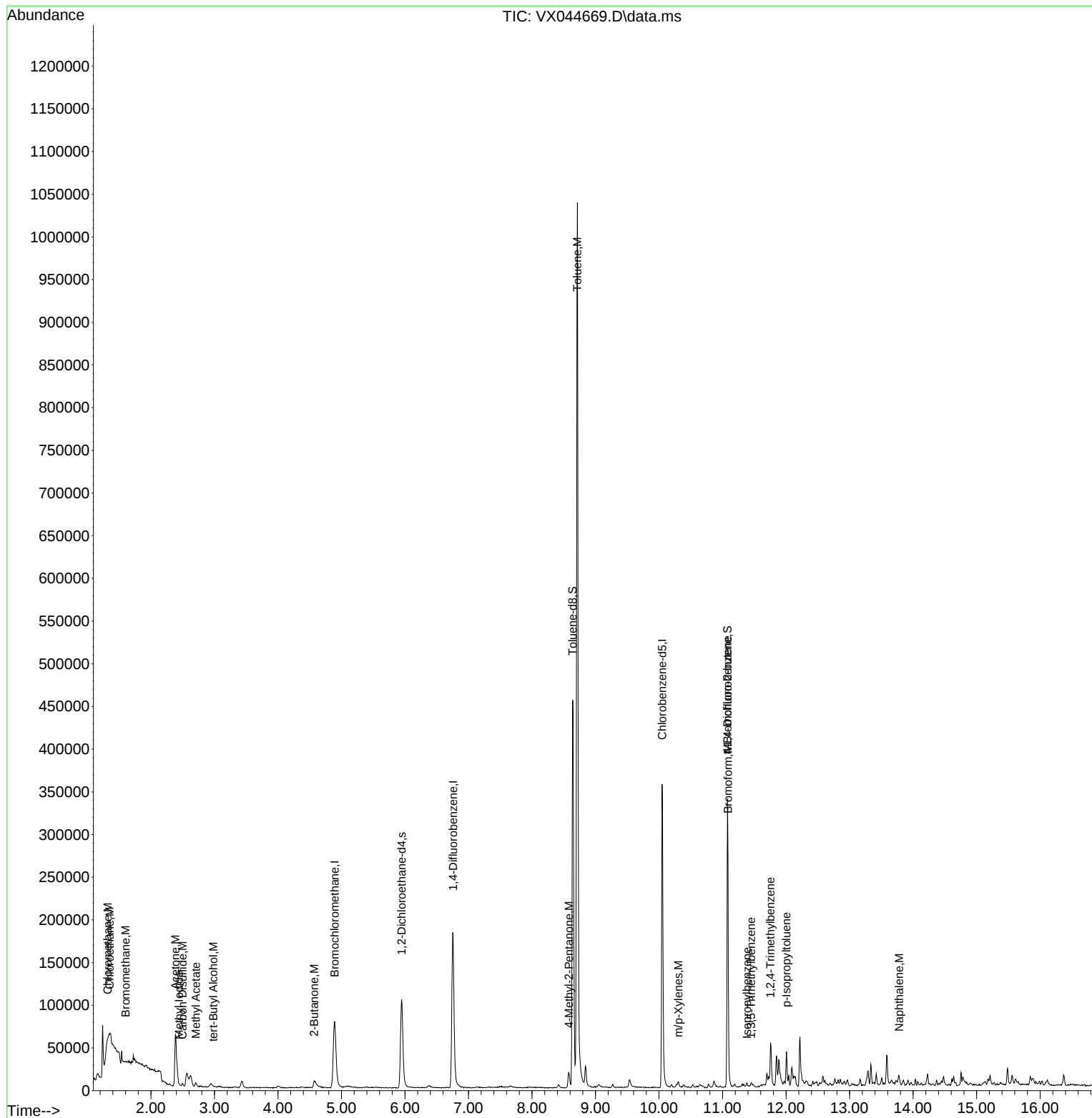
Internal Standards						
1) Bromochloromethane	4.891	128	34454	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	193425	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	171637	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	101647	30.560	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.867%	
60) 4-Bromofluorobenzene	11.079	95	101727	30.514	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.700%	
63) Toluene-d8	8.641	98	291561	31.232	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 104.100%	
Target Compounds						Qvalue
3) Chloromethane	1.319	50	1624	0.504	ug/l #	42
5) Bromomethane	1.599	94	234	0.307	ug/l #	12
6) Chloroethane	1.349	64	127394	254.833	ug/l #	55
11) Methyl Iodide	2.441	142	940	0.267	ug/l	92
12) Methyl Acetate	2.709	43	5007	1.348	ug/l #	88
15) Acetone	2.386	58	23128	63.664	ug/l	98
16) Carbon Disulfide	2.495	76	3912	0.553	ug/l	97
23) tert-Butyl Alcohol	2.983	59	759	1.159	ug/l #	100
30) 2-Butanone	4.568	43	16011	8.663	ug/l #	57
56) Bromoform	11.085	173	542	0.267	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	13356	3.692	ug/l	96
62) Toluene	8.714	91	710756	62.889	ug/l	99
67) m/p-Xylenes	10.305	106	1779	0.392	ug/l	97
70) Isopropylbenzene	11.384	105	3178	0.278	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	2149	0.231	ug/l	89
77) t-1,4-Dichloro-2-butene	11.079	75	49643	32.435	ug/l #	13
80) 1,2,4-Trimethylbenzene	11.756	105	7286	0.777	ug/l	88
82) p-Isopropyltoluene	12.006	119	16955	1.808	ug/l	98
91) Naphthalene	13.780	128	7185	0.654	ug/l	98

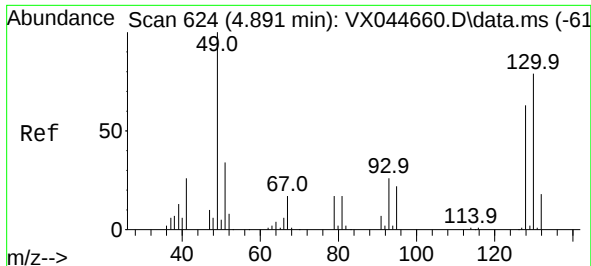
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011625\
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Quant Time: Jan 17 01:31:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 17 01:21:41 2025
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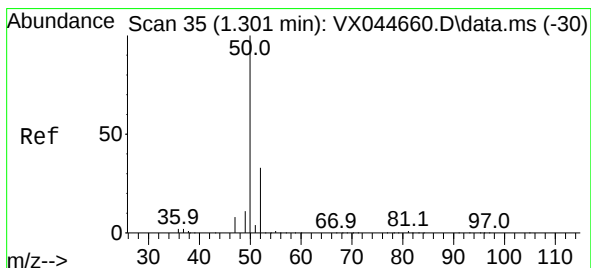
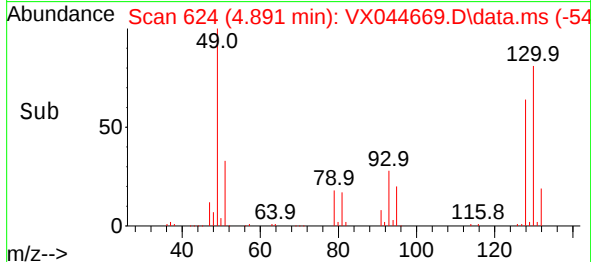
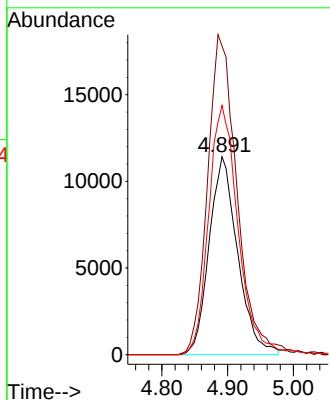
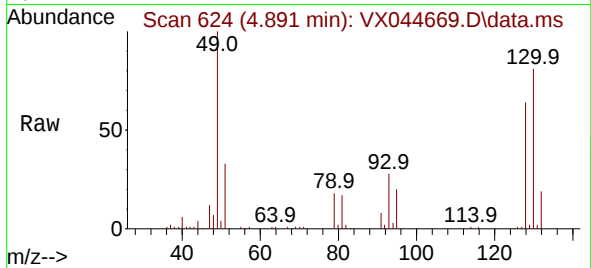




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.891 min Scan# 61
Delta R.T. 0.000 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

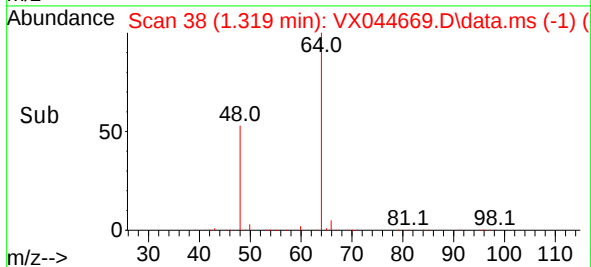
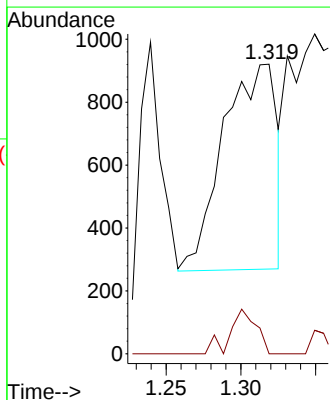
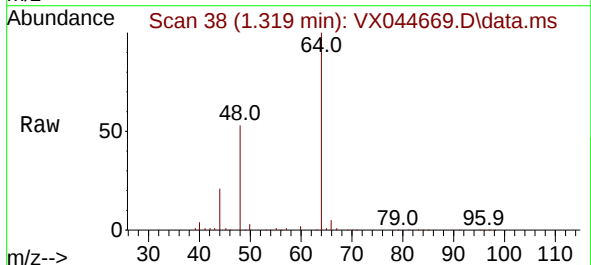
Instrument :
MSVOA_X
ClientSampleId :

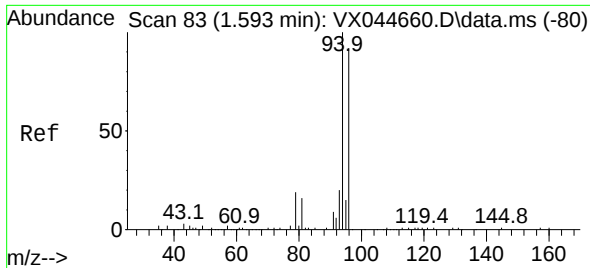
Tgt Ion:	128	Resp:	34454
Ion	Ratio	Lower	Upper
128	100		
49	164.0	0.0	411.5
130	129.9	0.0	324.3



#3
Chloromethane
Concen: 0.504 ug/l
RT: 1.319 min Scan# 38
Delta R.T. 0.018 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

Tgt Ion:	50	Resp:	1624
Ion	Ratio	Lower	Upper
50	100		
52	0.0	26.5	39.7#

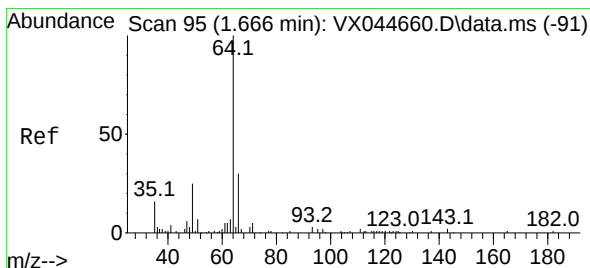
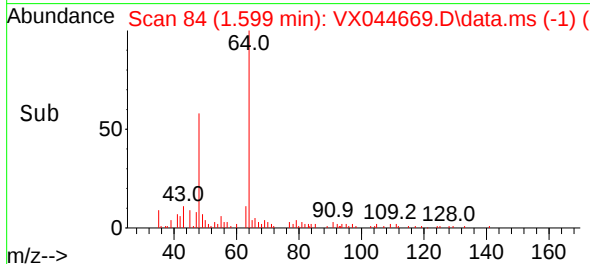
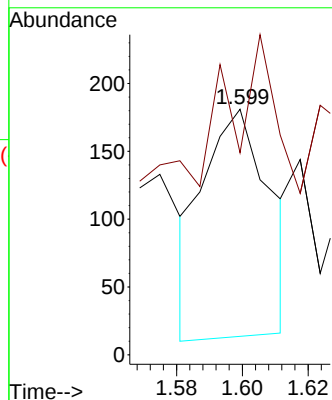
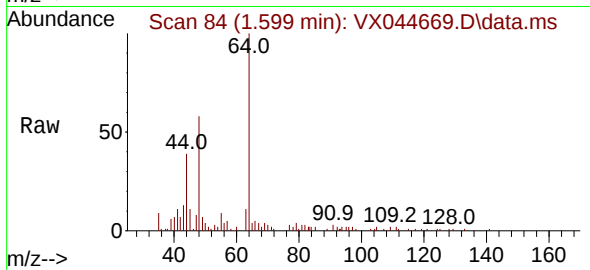




#5
Bromomethane
Concen: 0.307 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.006 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

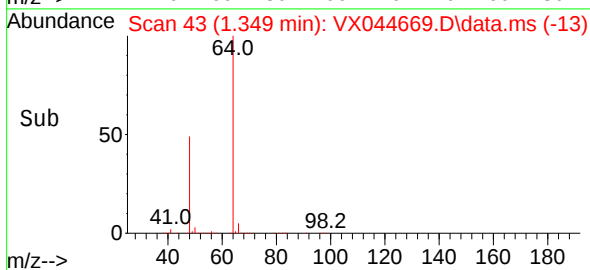
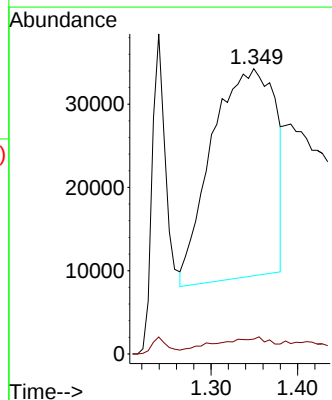
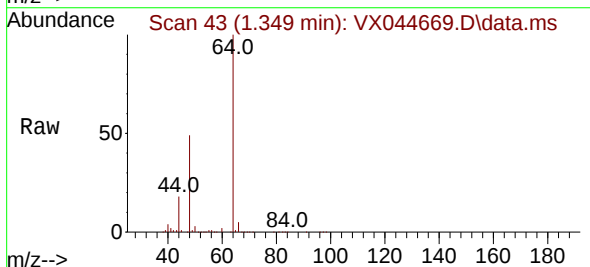
Instrument :
MSVOA_X
ClientSampleId :

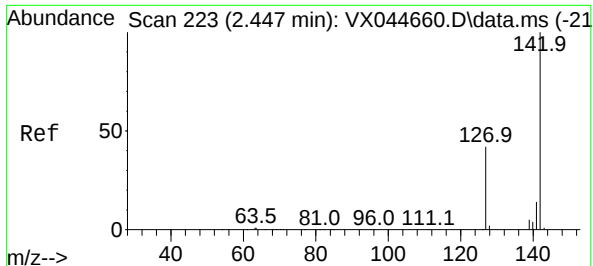
Tgt Ion: 94 Resp: 234
Ion Ratio Lower Upper
94 100
96 7.6 73.3 109.9#



#6
Chloroethane
Concen: 254.833 ug/l
RT: 1.349 min Scan# 43
Delta R.T. -0.317 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

Tgt Ion: 64 Resp: 127394
Ion Ratio Lower Upper
64 100
66 5.5 23.8 35.6#





#11

Methyl Iodide

Concen: 0.267 ug/l

RT: 2.441 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX044669.D

Acq: 16 Jan 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

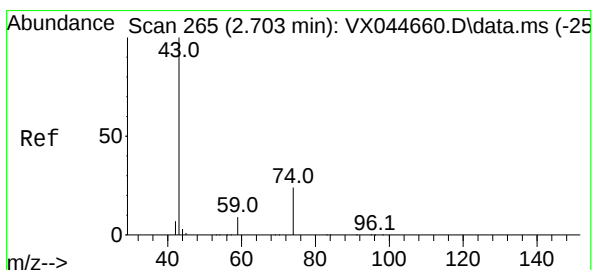
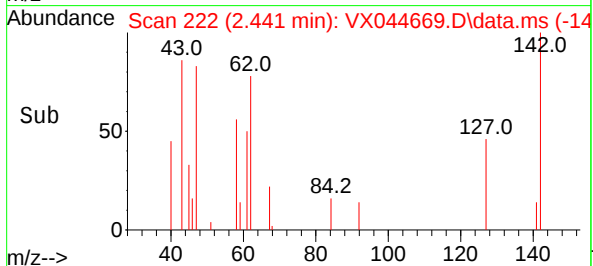
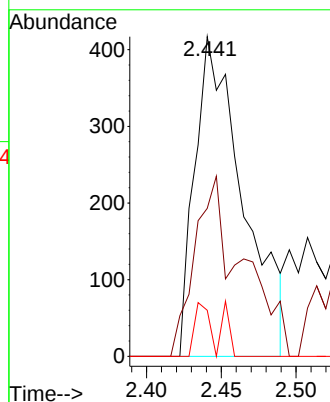
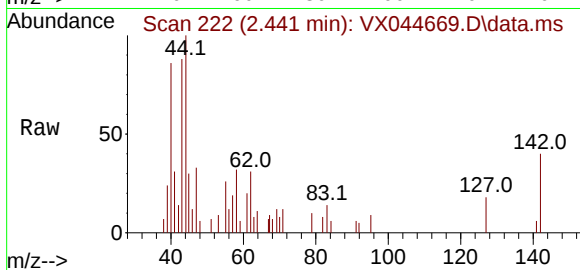
Tgt Ion:142 Resp: 940

Ion Ratio Lower Upper

142 100

127 36.0 20.8 62.4

141 16.5 7.0 20.9



#12

Methyl Acetate

Concen: 1.348 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX044669.D

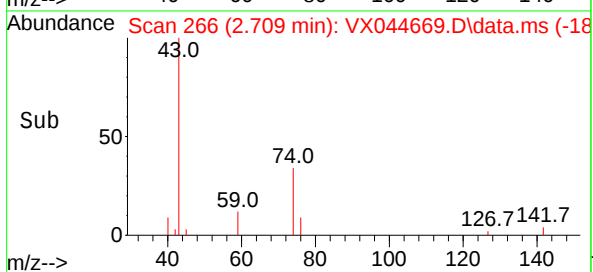
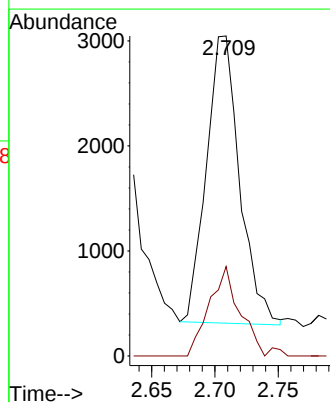
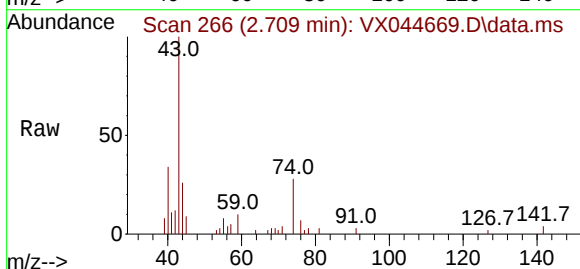
Acq: 16 Jan 2025 13:33

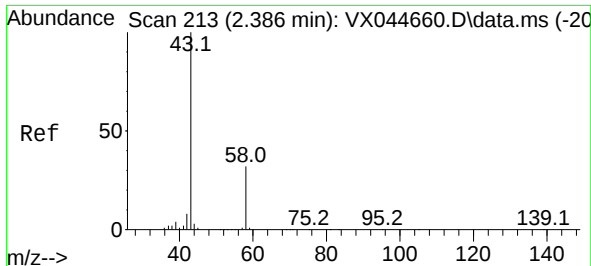
Tgt Ion: 43 Resp: 5007

Ion Ratio Lower Upper

43 100

74 30.3 19.4 29.2#

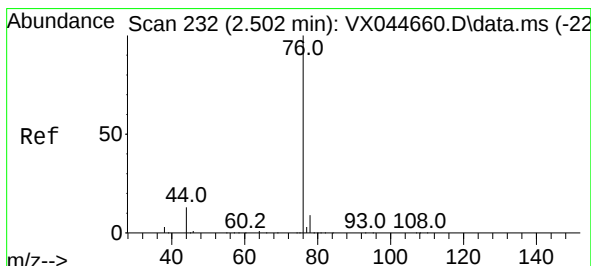
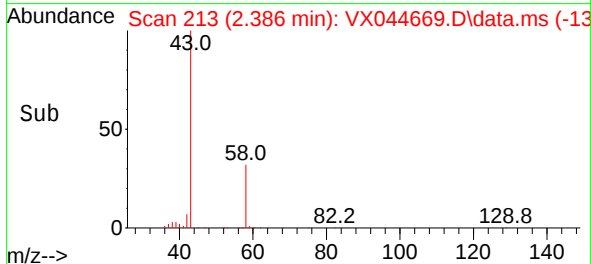
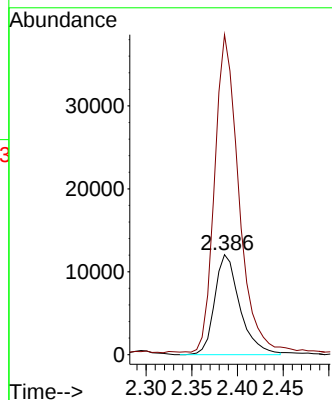
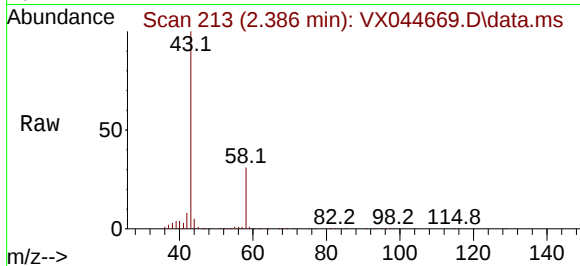




#15
Acetone
Concen: 63.664 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

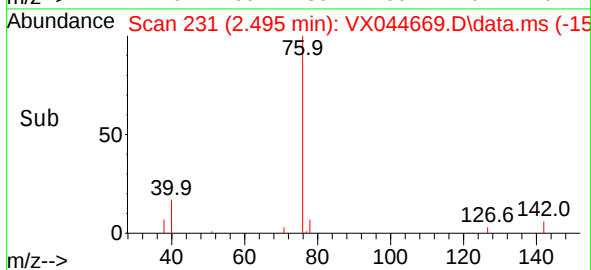
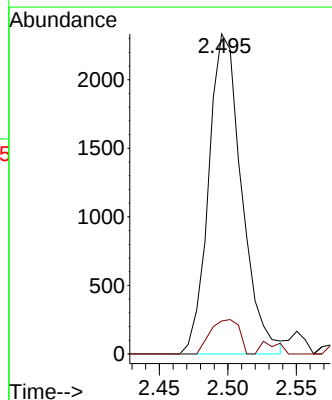
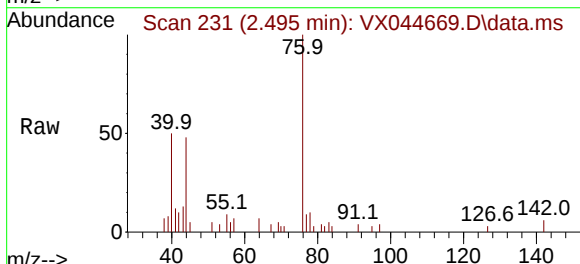
Instrument :
MSVOA_X
ClientSampleId :

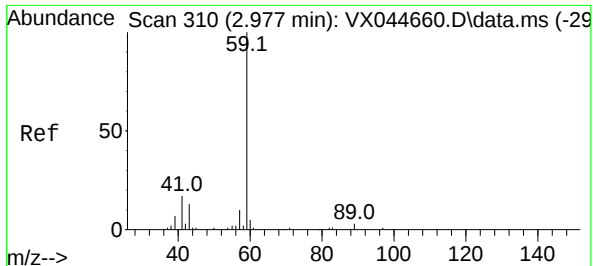
Tgt Ion: 58 Resp: 23128
Ion Ratio Lower Upper
58 100
43 317.5 251.0 376.4



#16
Carbon Disulfide
Concen: 0.553 ug/l
RT: 2.495 min Scan# 231
Delta R.T. -0.006 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

Tgt Ion: 76 Resp: 3912
Ion Ratio Lower Upper
76 100
78 10.3 7.3 10.9





#23

tert-Butyl Alcohol

Concen: 1.159 ug/l

RT: 2.983 min Scan# 311

Delta R.T. 0.006 min

Lab File: VX044669.D

Acq: 16 Jan 2025 13:33

Instrument :

MSVOA_X

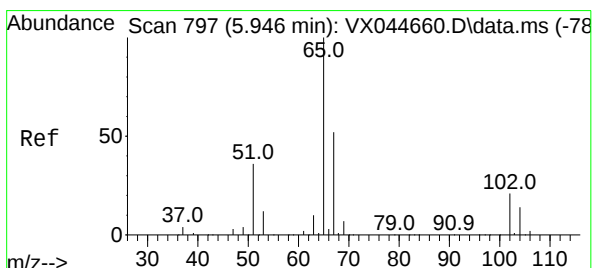
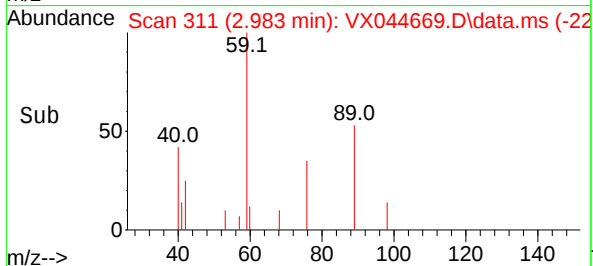
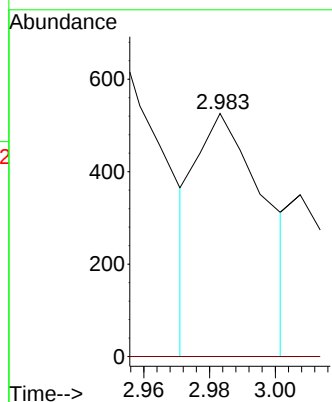
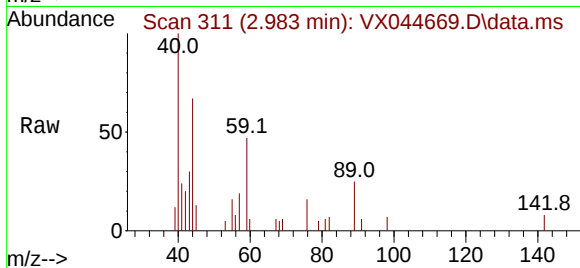
ClientSampleId :

Tgt Ion: 59 Resp: 759

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



#27

1,2-Dichloroethane-d4

Concen: 30.560 ug/l

RT: 5.946 min Scan# 797

Delta R.T. 0.000 min

Lab File: VX044669.D

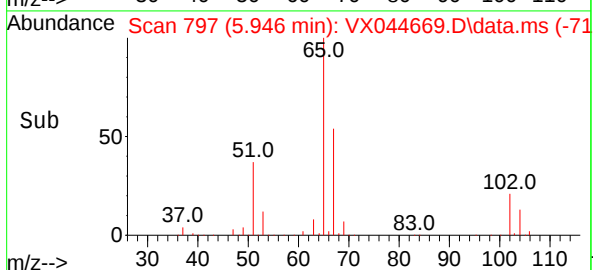
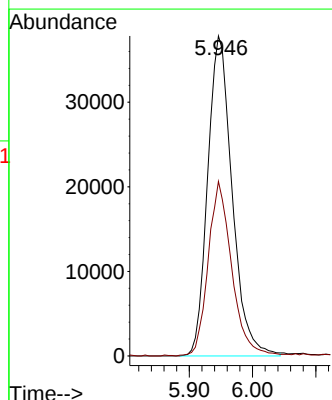
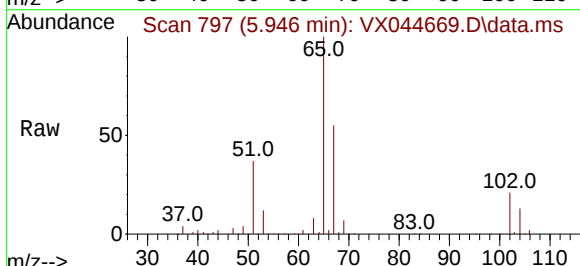
Acq: 16 Jan 2025 13:33

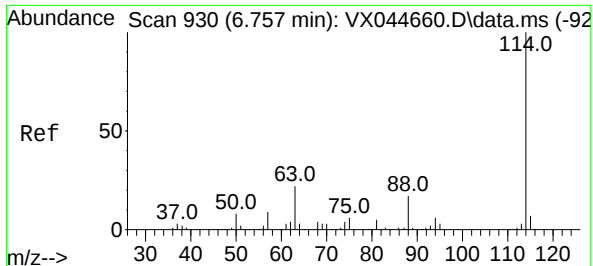
Tgt Ion: 65 Resp: 101647

Ion Ratio Lower Upper

65 100

67 52.5 41.4 62.2

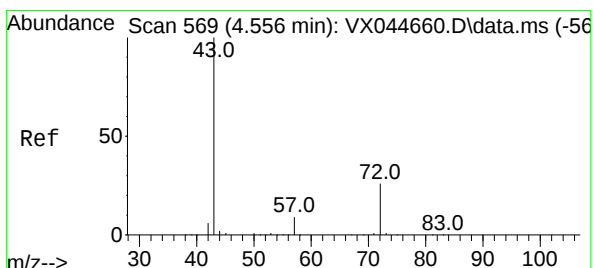
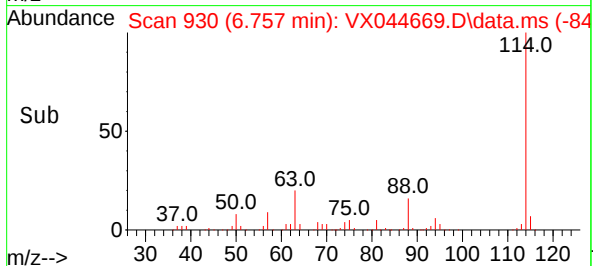
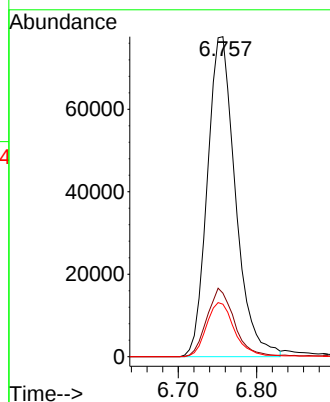
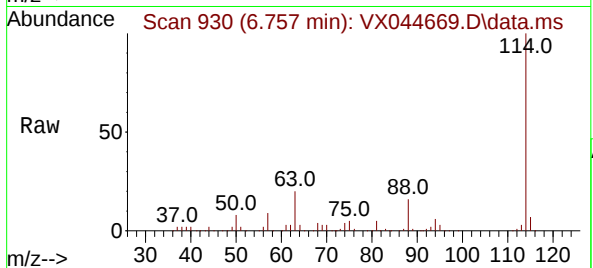




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

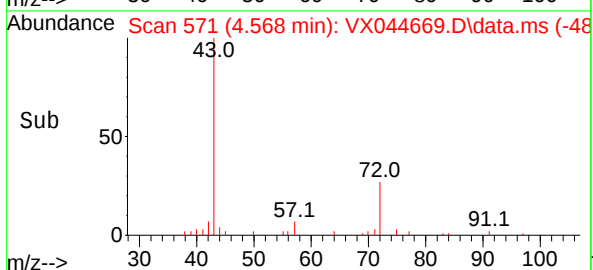
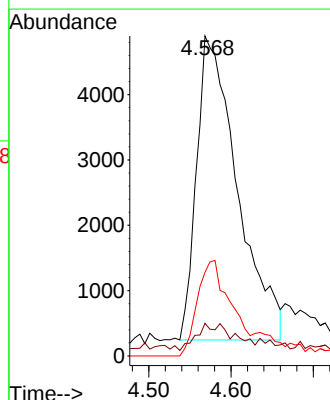
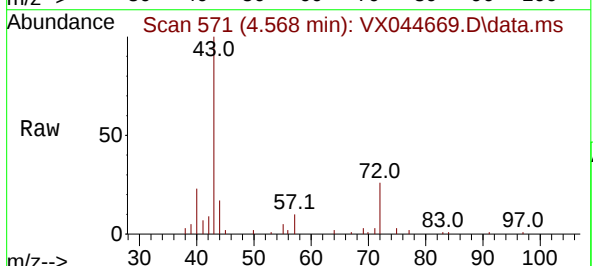
Instrument :
MSVOA_X
ClientSampleId :

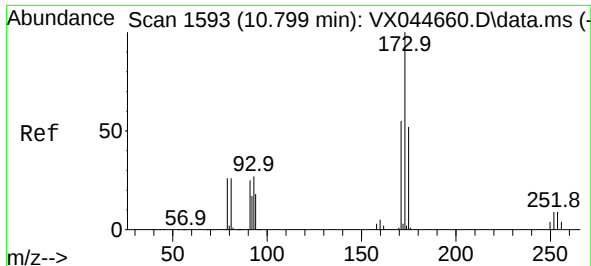
Tgt Ion:114 Resp: 193425
Ion Ratio Lower Upper
114 100
63 20.8 16.6 24.8
88 16.7 13.4 20.2



#30
2-Butanone
Concen: 8.663 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.012 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

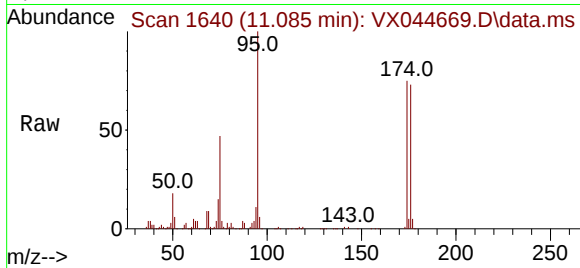
Tgt Ion: 43 Resp: 16011
Ion Ratio Lower Upper
43 100
57 4.0 6.4 9.6#
72 0.0 21.5 32.3#



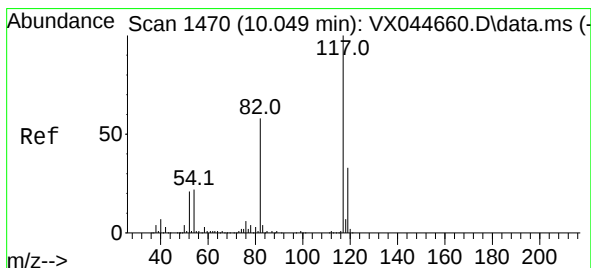
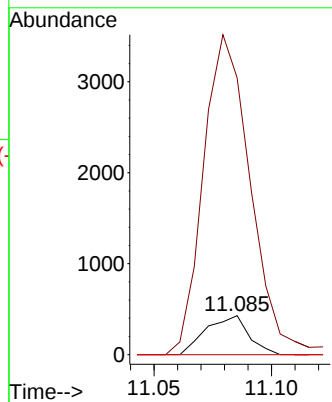
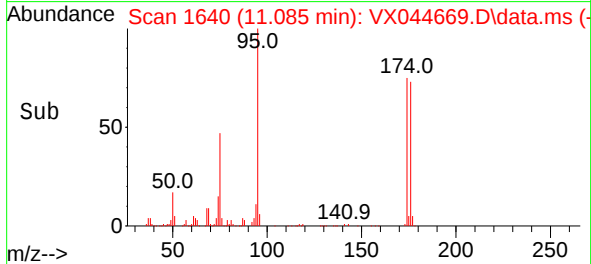


#56
Bromoform
Concen: 0.267 ug/l
RT: 11.085 min Scan# 11
Delta R.T. 0.287 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

Instrument :
MSVOA_X
ClientSampleId :

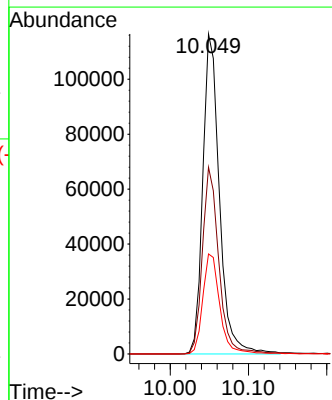
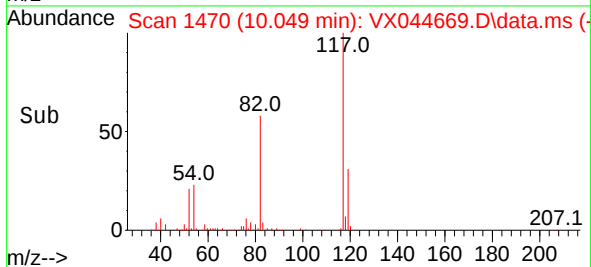
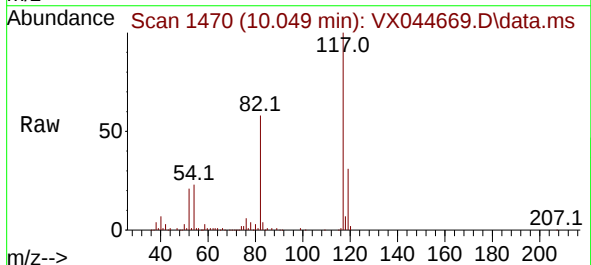


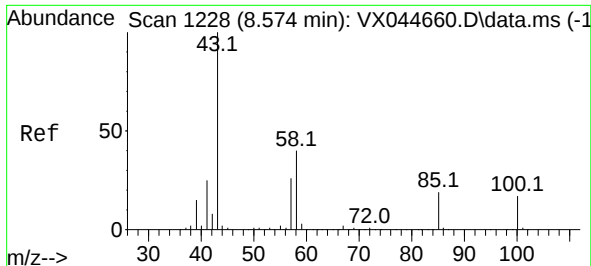
Tgt Ion:173 Resp: 542
Ion Ratio Lower Upper
173 100
175 911.3 39.0 58.6#
254 0.0 6.5 9.7#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

Tgt Ion:117 Resp: 171637
Ion Ratio Lower Upper
117 100
82 57.4 45.8 68.6
119 31.9 25.8 38.6





#58

4-Methyl-2-Pentanone

Concen: 3.692 ug/l

RT: 8.580 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX044669.D

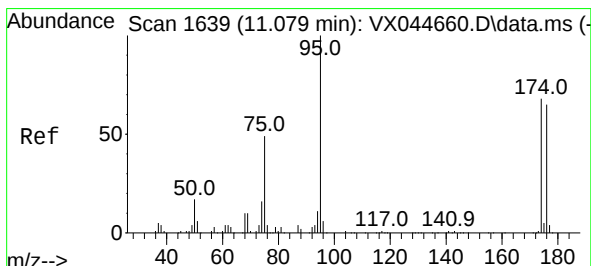
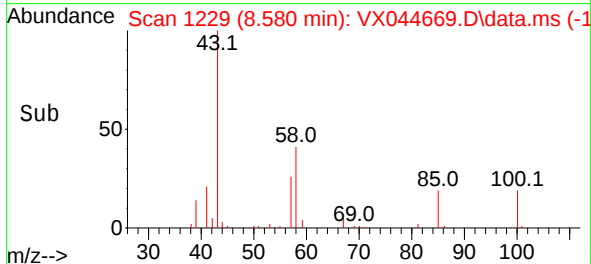
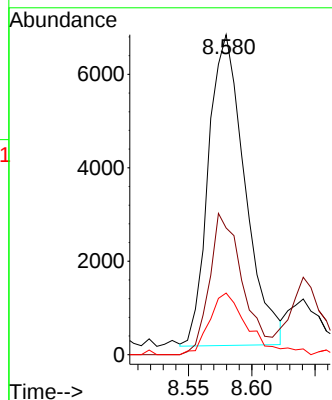
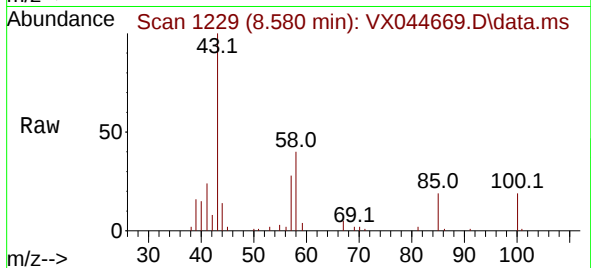
Acq: 16 Jan 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	43	Resp:	13356
Ion Ratio	Lower	Upper	
43	100		
58	41.7	31.7	47.5
85	21.0	15.0	22.6



#60

4-Bromofluorobenzene

Concen: 30.514 ug/l

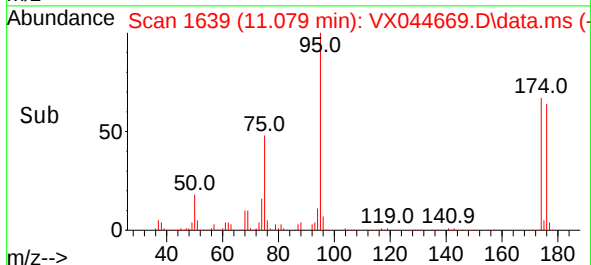
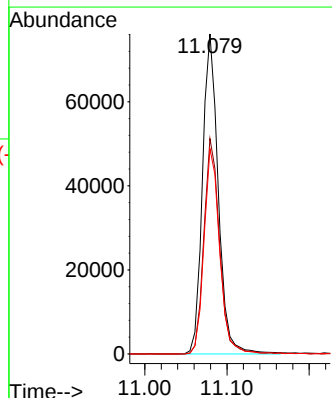
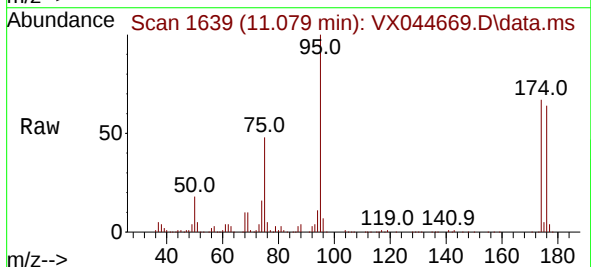
RT: 11.079 min Scan# 1639

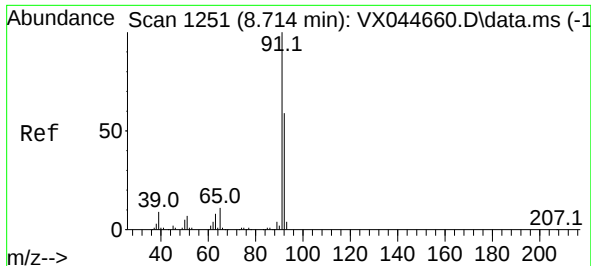
Delta R.T. 0.000 min

Lab File: VX044669.D

Acq: 16 Jan 2025 13:33

Tgt Ion:	95	Resp:	101727
Ion Ratio	Lower	Upper	
95	100		
174	66.7	54.6	81.8
176	63.6	52.8	79.2

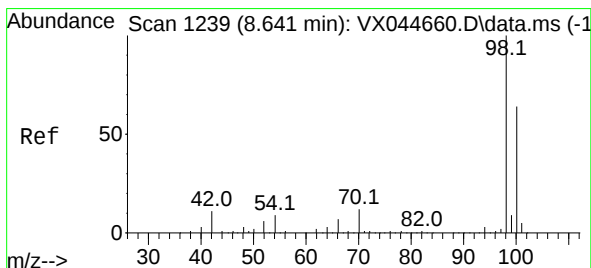
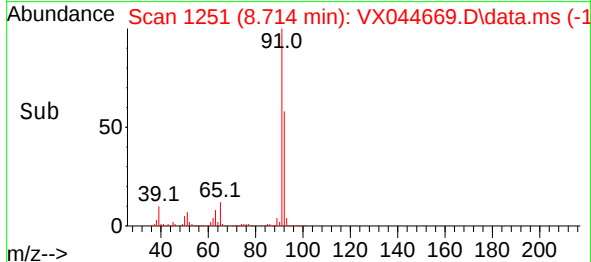
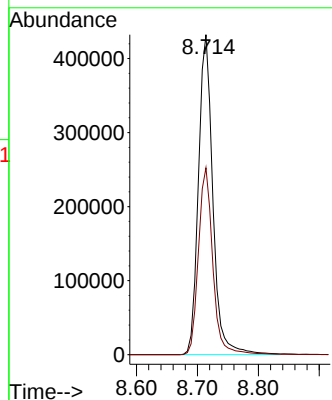
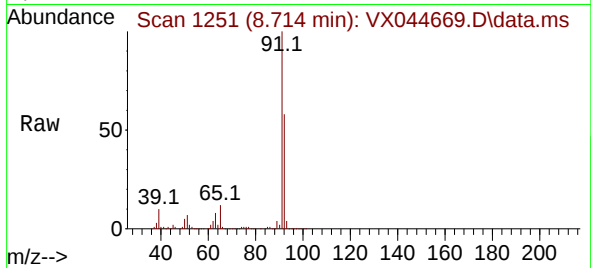




#62
Toluene
Concen: 62.889 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

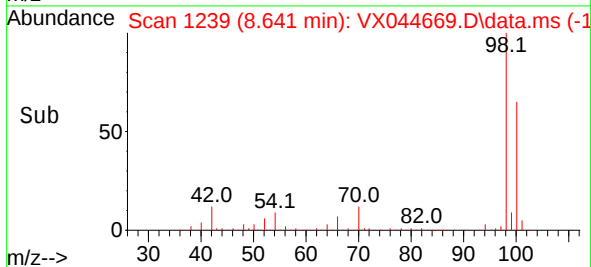
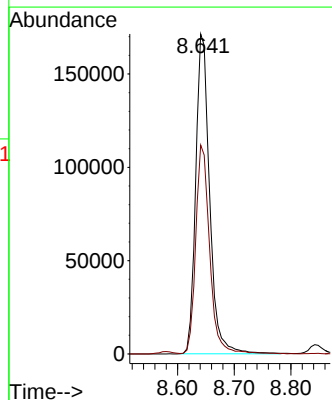
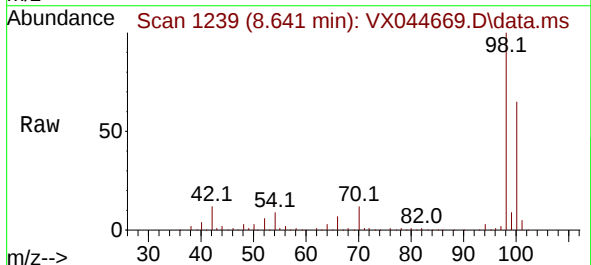
Instrument :
MSVOA_X
ClientSampleId :

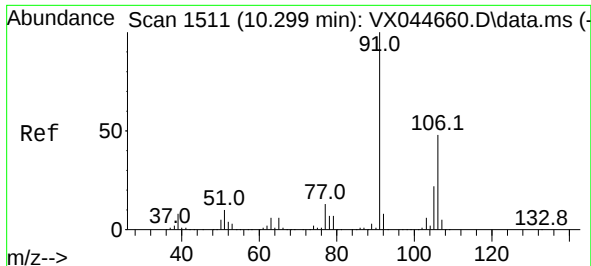
Tgt Ion: 91 Resp: 710756
Ion Ratio Lower Upper
91 100
92 58.1 47.3 70.9



#63
Toluene-d8
Concen: 31.232 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. 0.000 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

Tgt Ion: 98 Resp: 291561
Ion Ratio Lower Upper
98 100
100 64.6 53.6 80.4

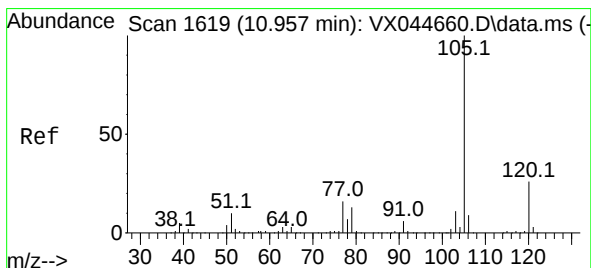
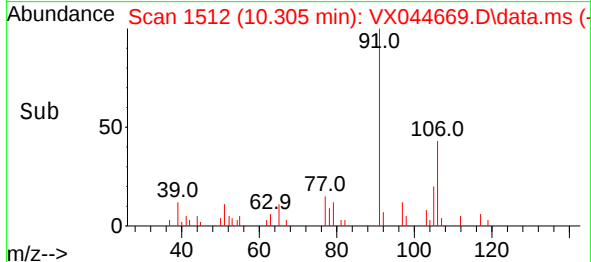
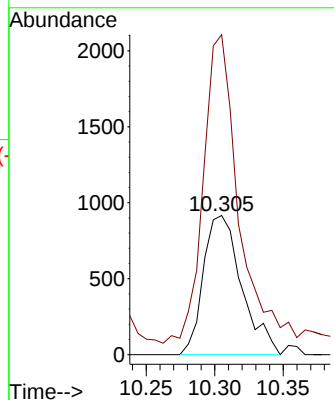
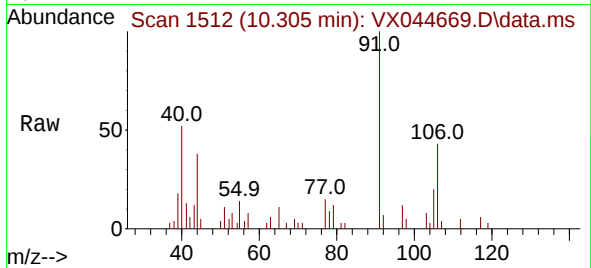




#67
m/p-Xylenes
Concen: 0.392 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

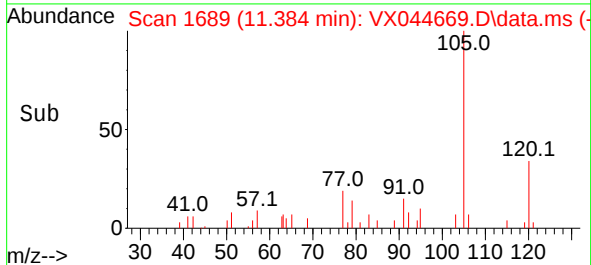
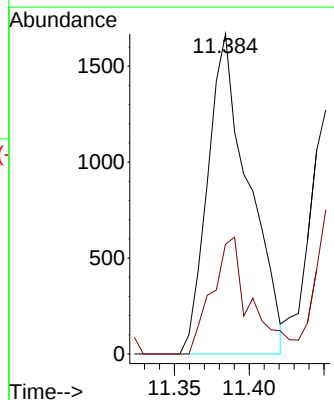
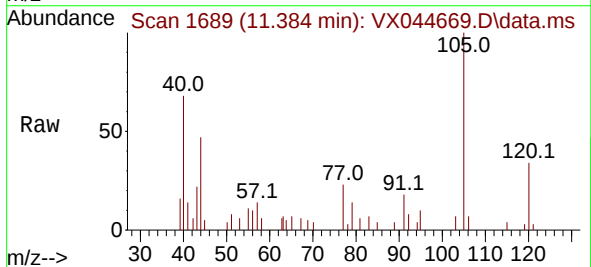
Instrument :
MSVOA_X
ClientSampleId :

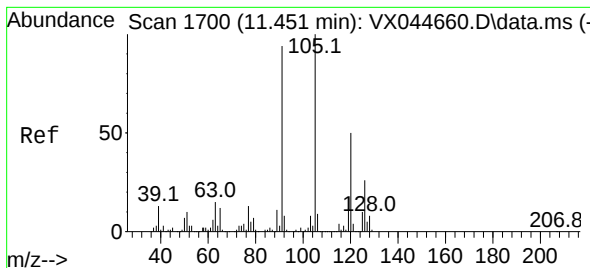
Tgt Ion:106 Resp: 1779
Ion Ratio Lower Upper
106 100
91 213.1 166.8 250.2



#70
Isopropylbenzene
Concen: 0.278 ug/l
RT: 11.384 min Scan# 1689
Delta R.T. 0.427 min
Lab File: VX044669.D
Acq: 16 Jan 2025 13:33

Tgt Ion:105 Resp: 3178
Ion Ratio Lower Upper
105 100
120 24.9 18.6 34.6





#76

1,3,5-Trimethylbenzene

Concen: 0.231 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX044669.D

Acq: 16 Jan 2025 13:33

Instrument :

MSVOA_X

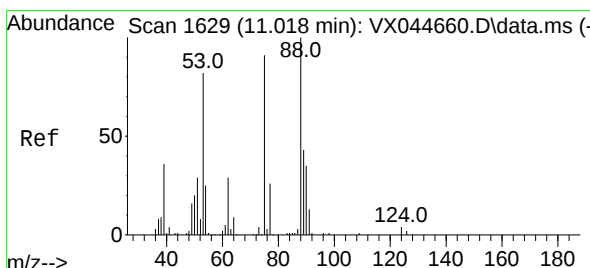
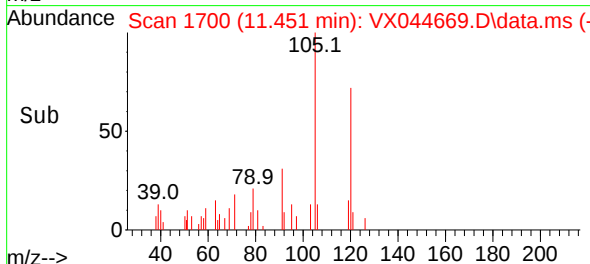
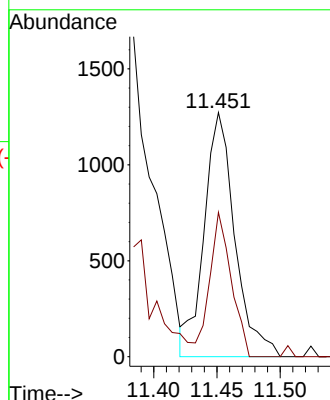
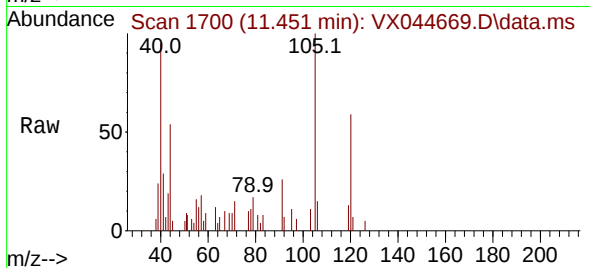
ClientSampleId :

Tgt Ion:105 Resp: 2149

Ion Ratio Lower Upper

105 100

120 41.1 0.0 96.8



#77

t-1,4-Dichloro-2-butene

Concen: 32.435 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX044669.D

Acq: 16 Jan 2025 13:33

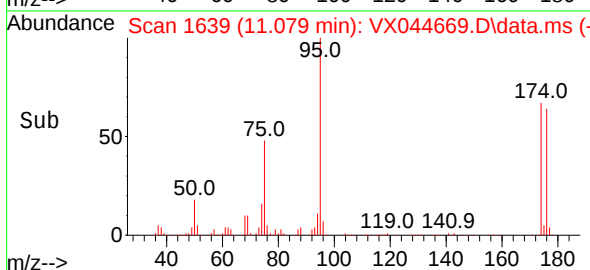
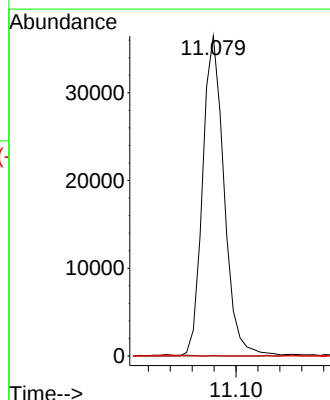
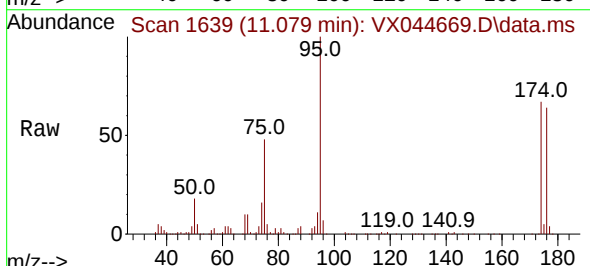
Tgt Ion: 75 Resp: 49643

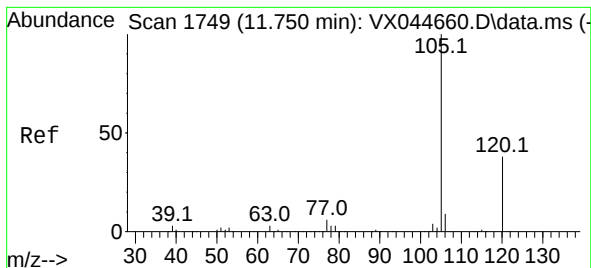
Ion Ratio Lower Upper

75 100

53 0.2 45.3 135.9#

89 0.0 23.8 71.2#





#80

1,2,4-Trimethylbenzene

Concen: 0.777 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX044669.D

Acq: 16 Jan 2025 13:33

Instrument :

MSVOA_X

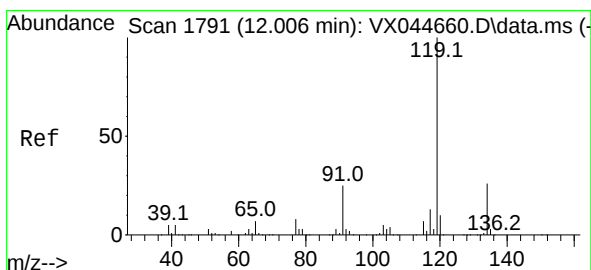
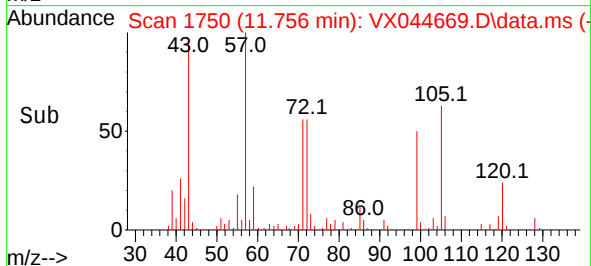
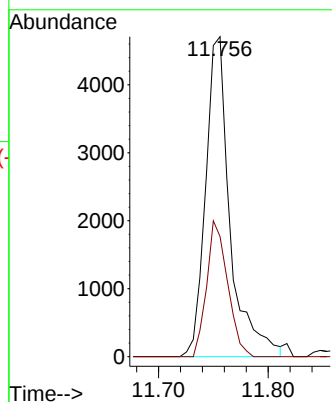
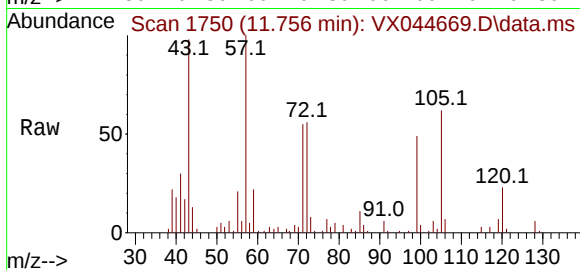
ClientSampleId :

Tgt Ion:105 Resp: 7286

Ion Ratio Lower Upper

105 100

120 36.2 0.0 88.4



#82

p-Isopropyltoluene

Concen: 1.808 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX044669.D

Acq: 16 Jan 2025 13:33

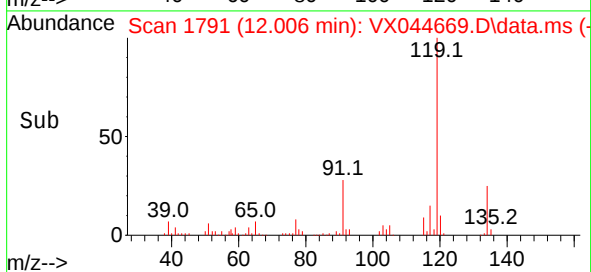
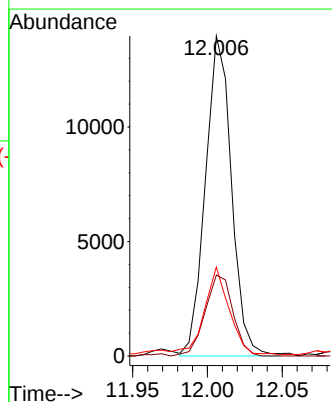
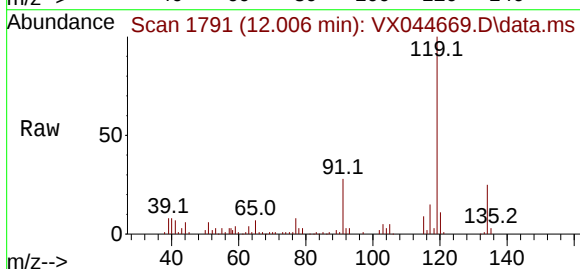
Tgt Ion:119 Resp: 16955

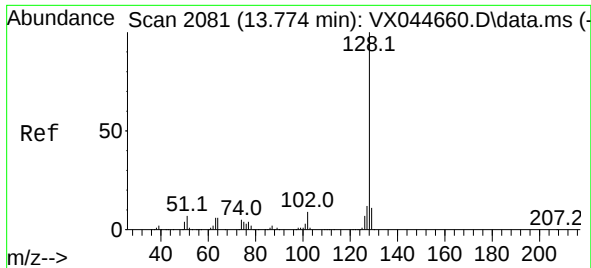
Ion Ratio Lower Upper

119 100

134 27.0 0.0 52.2

91 25.8 0.0 50.2





#91

Naphthalene

Concen: 0.654 ug/l

RT: 13.780 min Scan# 2081

Delta R.T. 0.006 min

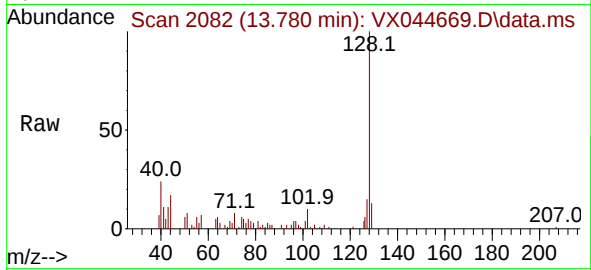
Lab File: VX044669.D

Acq: 16 Jan 2025 13:33

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:128 Resp: 7185

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

129 12.7 9.0 13.6

