

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062024\
 Data File : VX041958.D
 Acq On : 20 Jun 2024 12:15
 Operator : JC/MD
 Sample : P2980-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 03:15:39 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

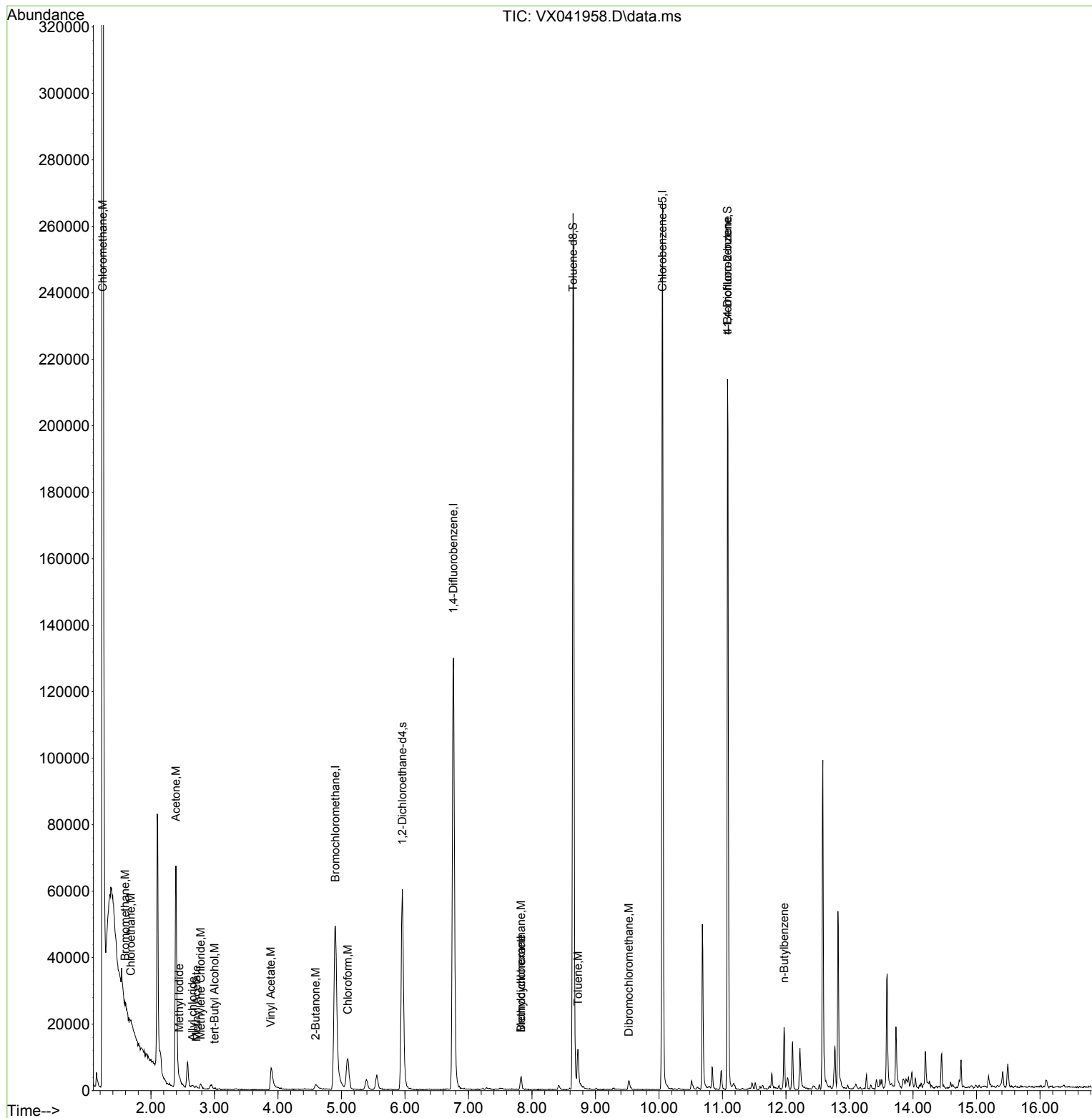
Internal Standards						
1) Bromochloromethane	4.904	128	26842	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	145426	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	129405	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	56598	30.630	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	102.100%	
60) 4-Bromofluorobenzene	11.079	95	57224	28.568	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	95.233%	
63) Toluene-d8	8.647	98	168757	30.481	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	101.600%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	26242	13.511	ug/l #	42
5) Bromomethane	1.593	94	719	0.708	ug/l #	79
6) Chloroethane	1.685	64	3888	4.791	ug/l #	54
11) Methyl Iodide	2.447	142	1255	0.588	ug/l #	92
12) Methyl Acetate	2.715	43	858	0.410	ug/l	100
15) Acetone	2.392	58	24506	86.298	ug/l	94
17) Allyl chloride	2.654	41	644	0.258	ug/l #	48
18) Methylene Chloride	2.782	84	687	0.365	ug/l #	66
23) tert-Butyl Alcohol	3.002	59	472	1.279	ug/l #	100
25) Chloroform	5.099	83	12338	4.150	ug/l	94
30) 2-Butanone	4.593	43	1879	1.482	ug/l #	89
38) Methylcyclohexane	7.830	83	2758	1.097	ug/l #	18
41) Bromodichloromethane	7.830	83	2912	1.459	ug/l	96
42) Vinyl Acetate	3.886	43	1046	0.246	ug/l #	72
53) Dibromochloromethane	9.525	129	1506	0.849	ug/l	96
62) Toluene	8.726	91	8584	1.311	ug/l	100
77) t-1,4-Dichloro-2-butene	11.079	75	26269	35.092	ug/l #	7
85) n-Butylbenzene	11.969	91	1247	0.246	ug/l	69

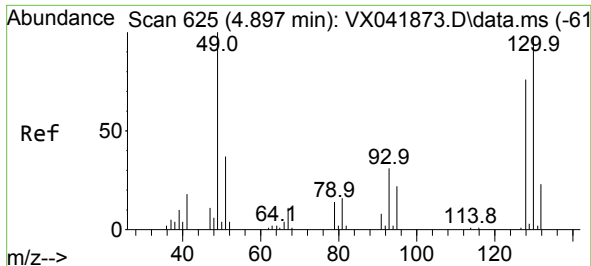
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062024\
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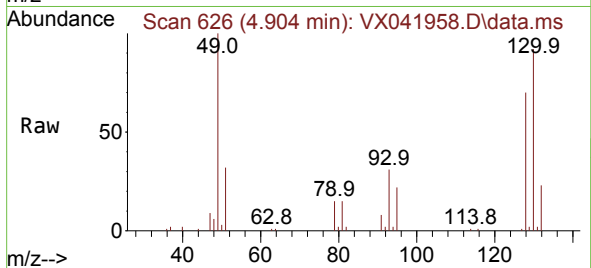
Quant Time: Jun 21 03:15:39 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 15 04:02:59 2024
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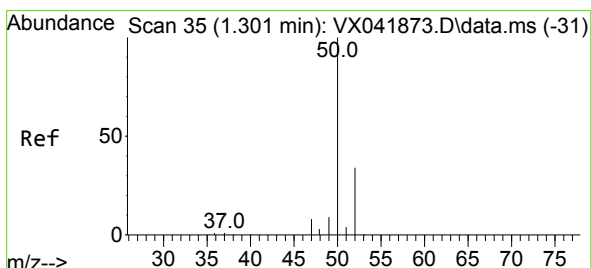
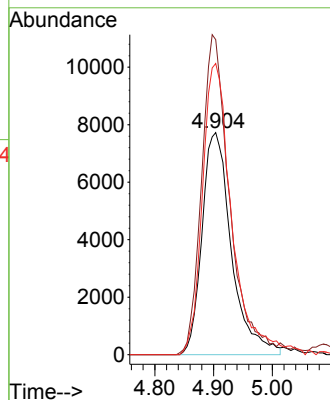
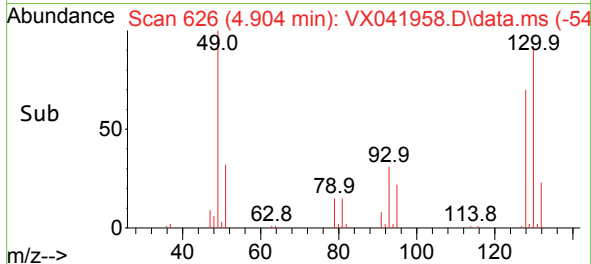


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

Instrument :
MSVOA_X
ClientSampleId :

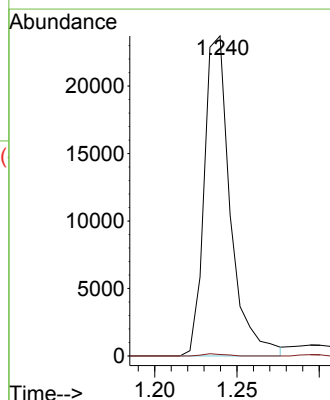
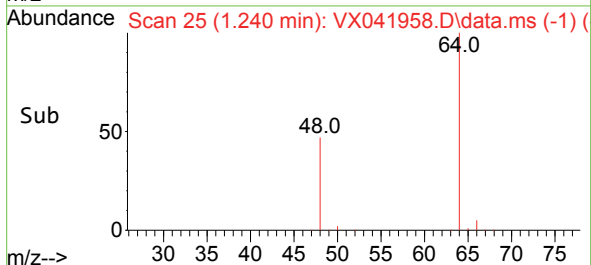
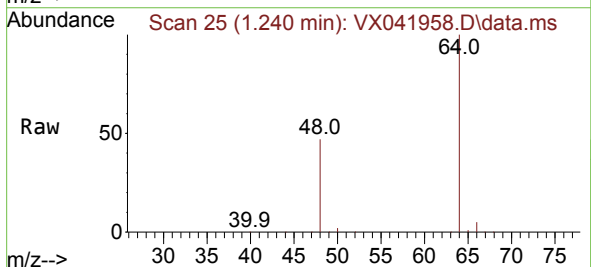


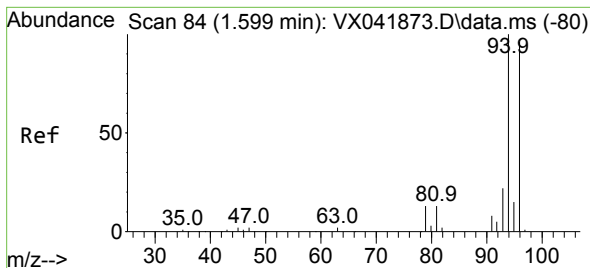
Tgt Ion:128 Resp: 26842
Ion Ratio Lower Upper
128 100
49 137.3 0.0 338.5
130 128.8 0.0 324.5



#3
Chloromethane
Concen: 13.511 ug/l
RT: 1.240 min Scan# 25
Delta R.T. -0.061 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

Tgt Ion: 50 Resp: 26242
Ion Ratio Lower Upper
50 100
52 0.5 26.9 40.3#





#5

Bromomethane

Concen: 0.708 ug/l

RT: 1.593 min Scan# 81

Delta R.T. -0.006 min

Lab File: VX041958.D

Acq: 20 Jun 2024 12:15

Instrument :

MSVOA_X

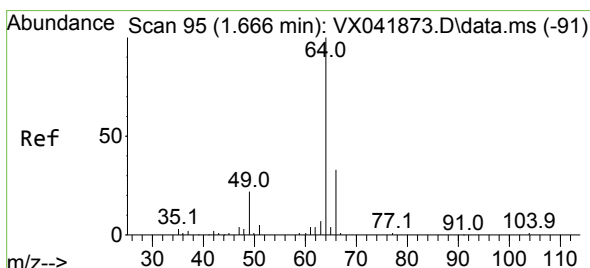
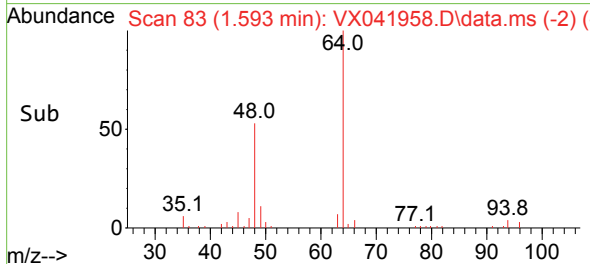
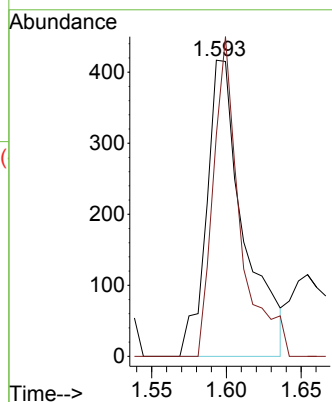
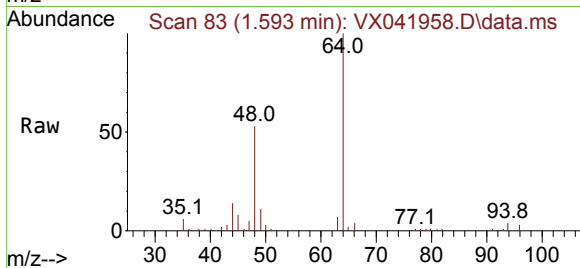
ClientSampleId :

Tgt Ion: 94 Resp: 719

Ion Ratio Lower Upper

94 100

96 74.8 76.6 115.0#



#6

Chloroethane

Concen: 4.791 ug/l

RT: 1.685 min Scan# 98

Delta R.T. 0.018 min

Lab File: VX041958.D

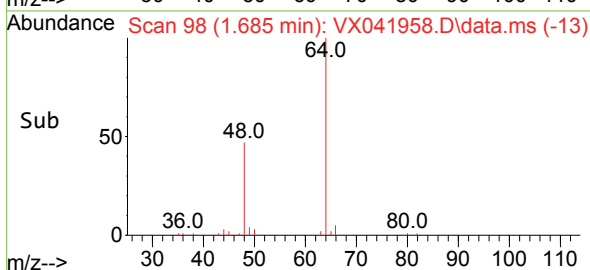
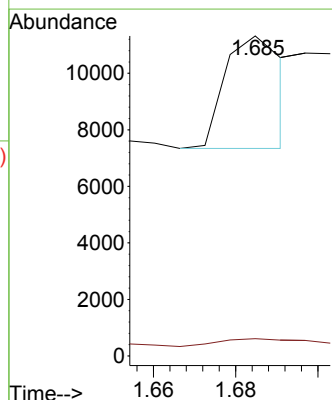
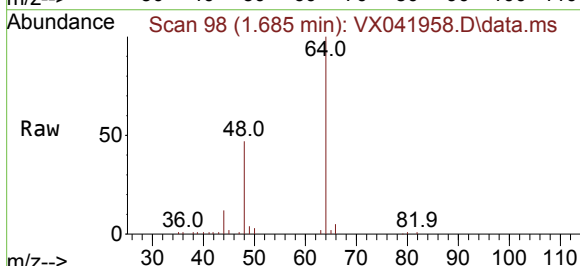
Acq: 20 Jun 2024 12:15

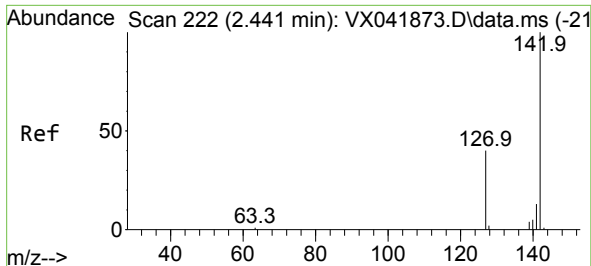
Tgt Ion: 64 Resp: 3888

Ion Ratio Lower Upper

64 100

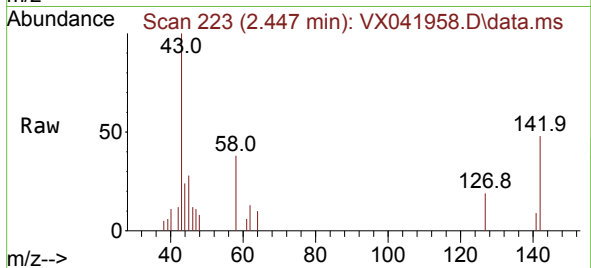
66 6.9 26.4 39.6#



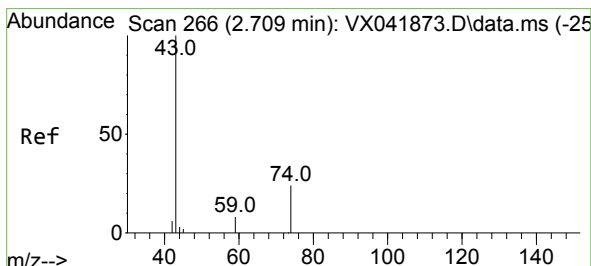
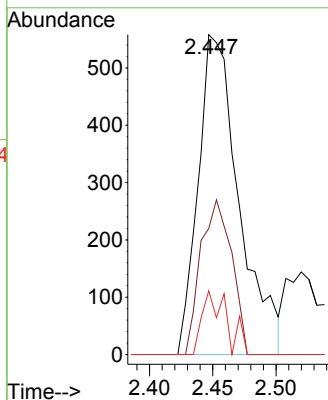
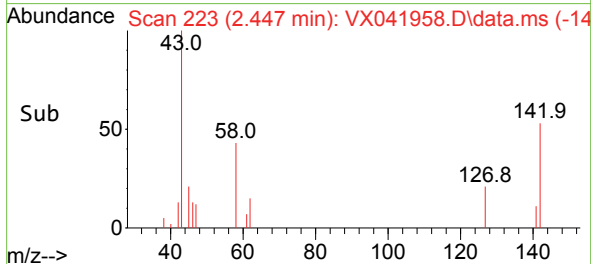


#11
Methyl Iodide
Concen: 0.588 ug/l
RT: 2.447 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

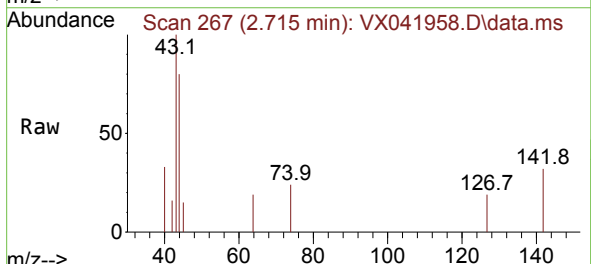
Instrument :
MSVOA_X
ClientSampleId :



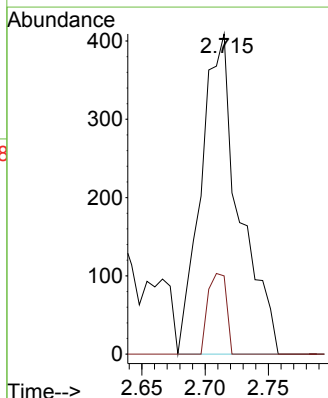
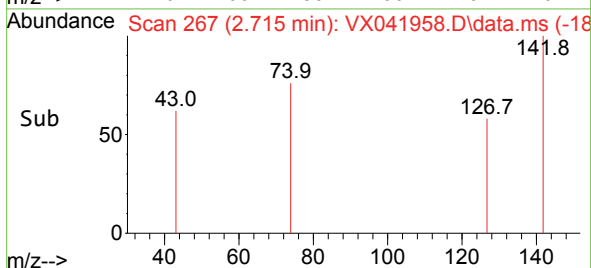
Tgt Ion:142 Resp: 1255
Ion Ratio Lower Upper
142 100
127 41.9 19.8 59.3
141 21.1 6.7 20.1#

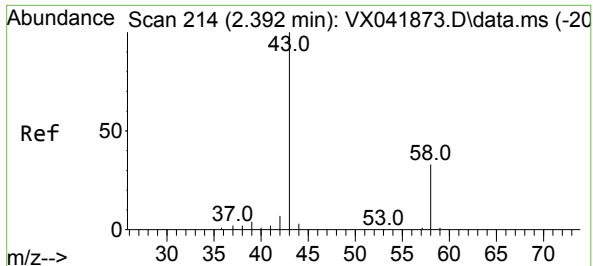


#12
Methyl Acetate
Concen: 0.410 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.006 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15



Tgt Ion: 43 Resp: 858
Ion Ratio Lower Upper
43 100
74 24.4 19.4 29.2

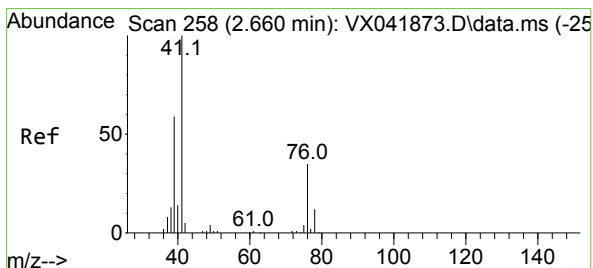
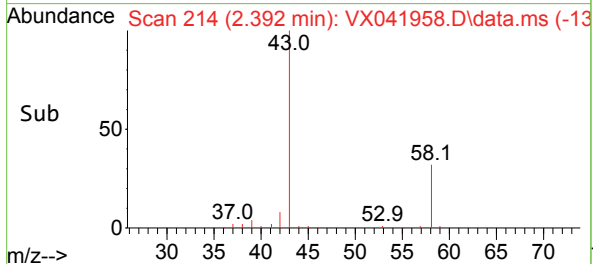
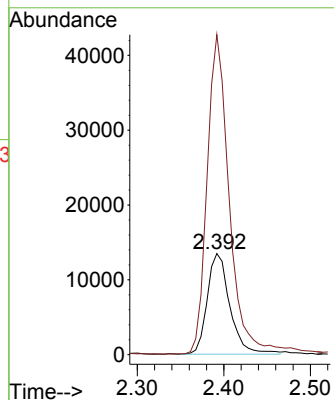
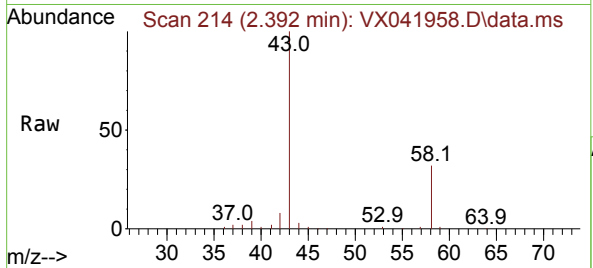




#15
Acetone
Concen: 86.298 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

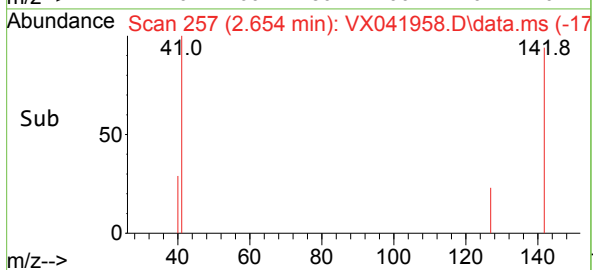
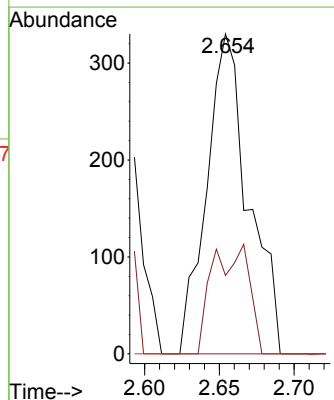
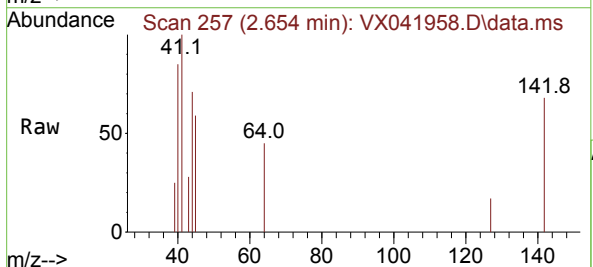
Instrument :
MSVOA_X
ClientSampleId :

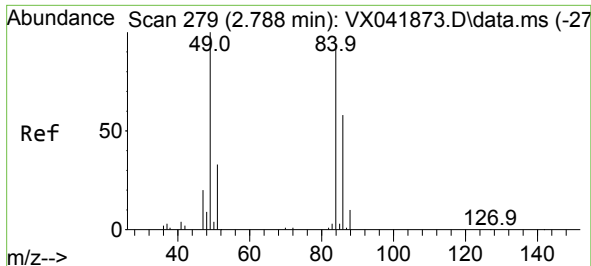
Tgt Ion: 58 Resp: 24506
Ion Ratio Lower Upper
58 100
43 317.1 243.4 365.2



#17
Allyl chloride
Concen: 0.258 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

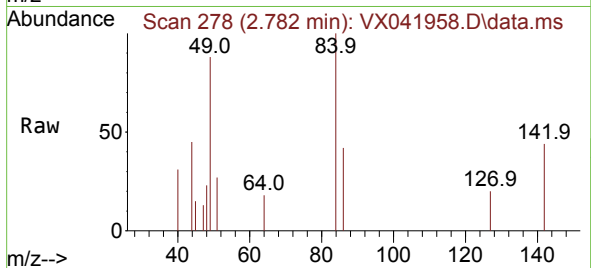
Tgt Ion: 41 Resp: 644
Ion Ratio Lower Upper
41 100
39 24.5 29.6 88.8#
76 0.0 18.1 54.4#





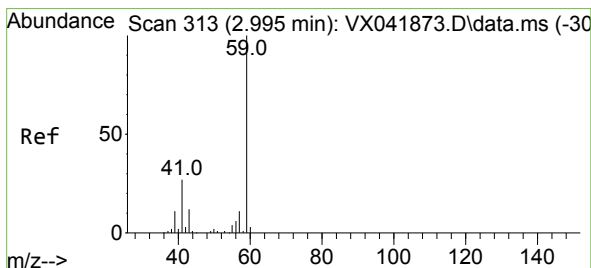
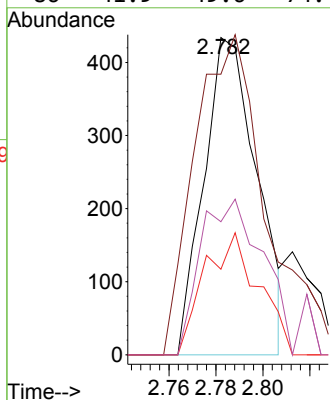
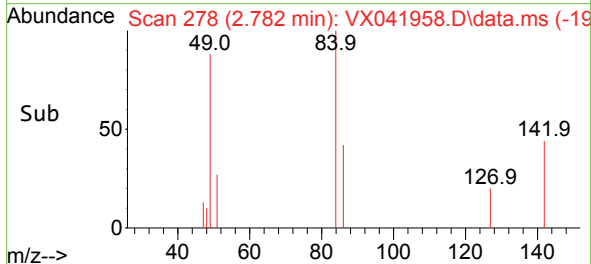
#18
Methylene Chloride
Concen: 0.365 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion: 84 Resp: 687

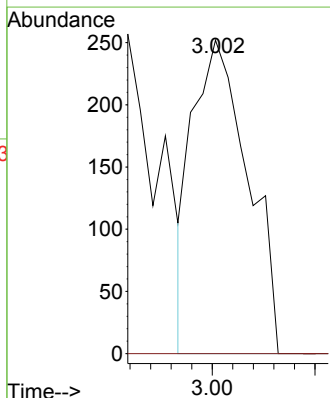
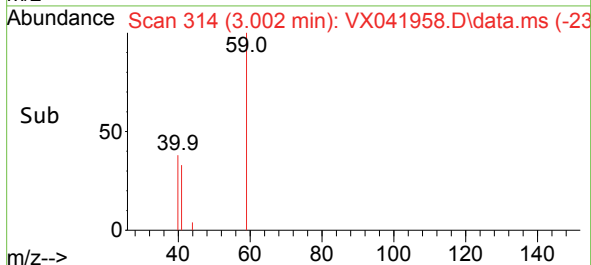
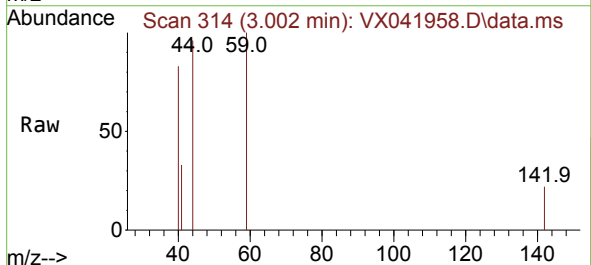
Ion	Ratio	Lower	Upper
84	100		
49	59.9	85.3	127.9#
51	27.0	28.5	42.7#
86	41.9	49.6	74.4#

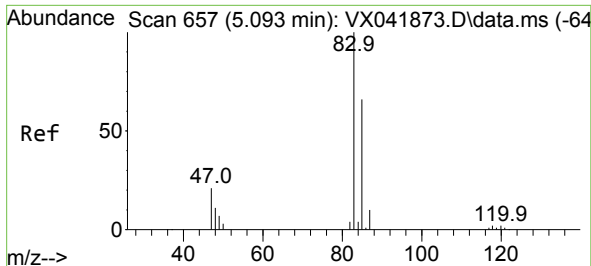


#23
tert-Butyl Alcohol
Concen: 1.279 ug/l
RT: 3.002 min Scan# 314
Delta R.T. 0.006 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

Tgt Ion: 59 Resp: 472

Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0





#25

Chloroform

Concen: 4.150 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX041958.D

Acq: 20 Jun 2024 12:15

Instrument :

MSVOA_X

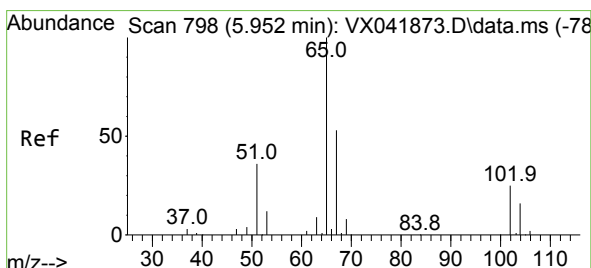
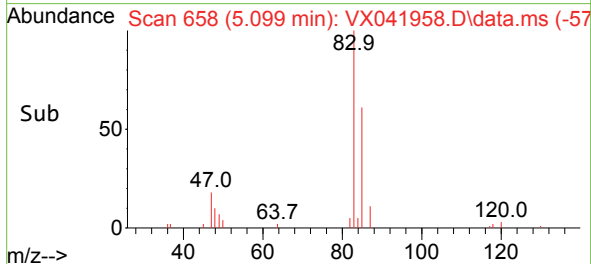
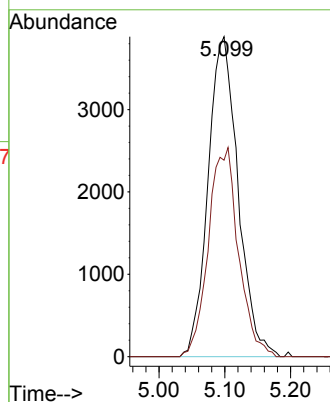
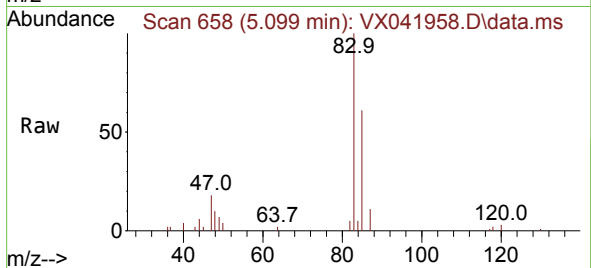
ClientSampleId :

Tgt Ion: 83 Resp: 12338

Ion Ratio Lower Upper

83 100

85 61.4 52.7 79.1



#27

1,2-Dichloroethane-d4

Concen: 30.630 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.006 min

Lab File: VX041958.D

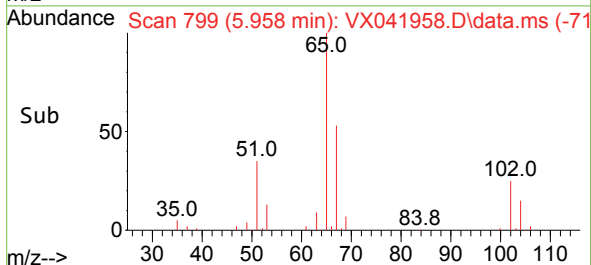
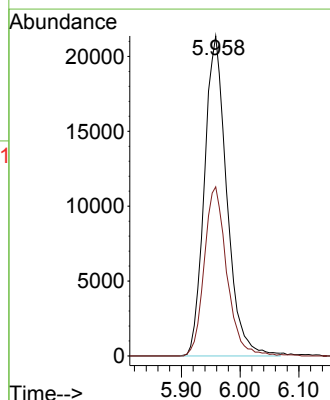
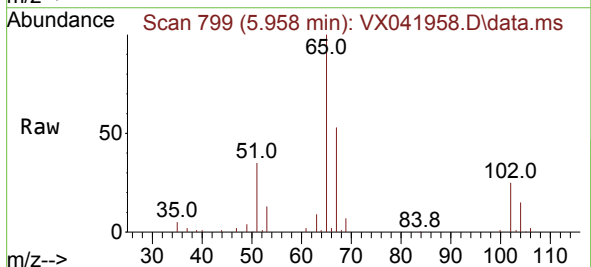
Acq: 20 Jun 2024 12:15

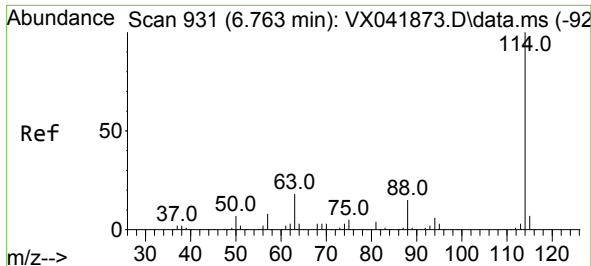
Tgt Ion: 65 Resp: 56598

Ion Ratio Lower Upper

65 100

67 53.2 43.4 65.0





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX041958.D

Acq: 20 Jun 2024 12:15

Instrument :

MSVOA_X

ClientSampleId :

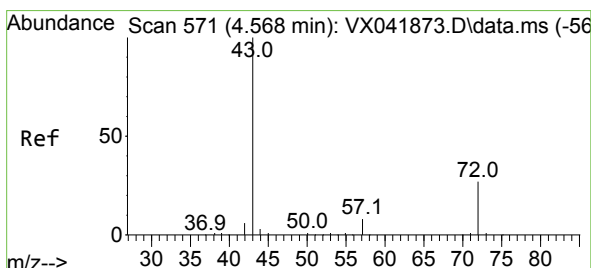
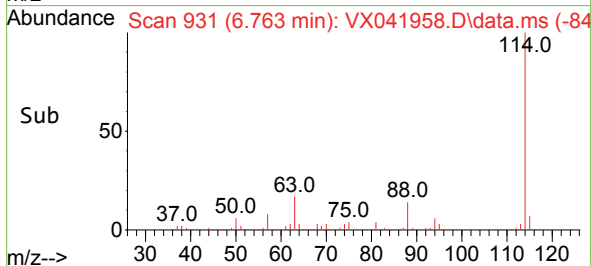
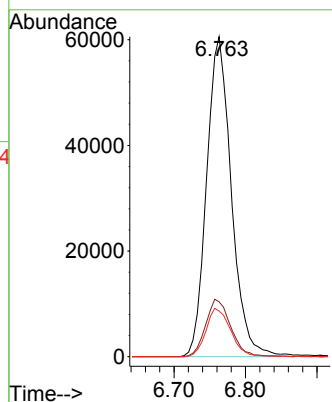
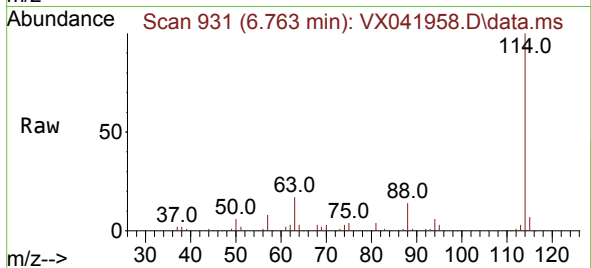
Tgt Ion:114 Resp: 145426

Ion Ratio Lower Upper

114 100

63 18.1 14.6 21.8

88 15.0 11.8 17.8



#30

2-Butanone

Concen: 1.482 ug/l

RT: 4.593 min Scan# 575

Delta R.T. 0.024 min

Lab File: VX041958.D

Acq: 20 Jun 2024 12:15

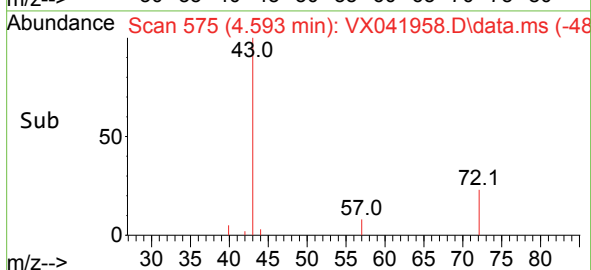
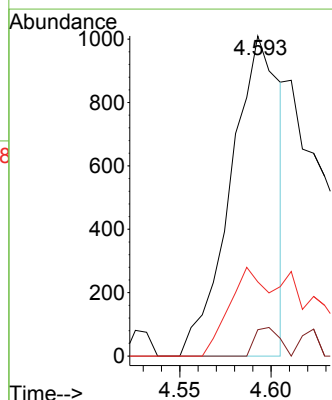
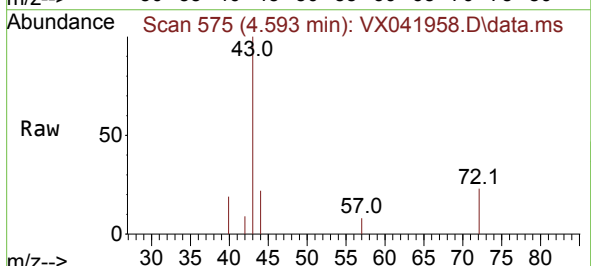
Tgt Ion: 43 Resp: 1879

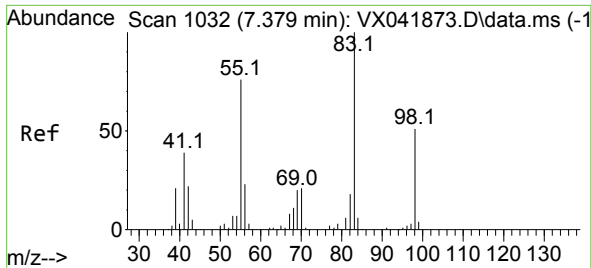
Ion Ratio Lower Upper

43 100

57 4.5 6.5 9.7#

72 21.3 22.0 33.0#

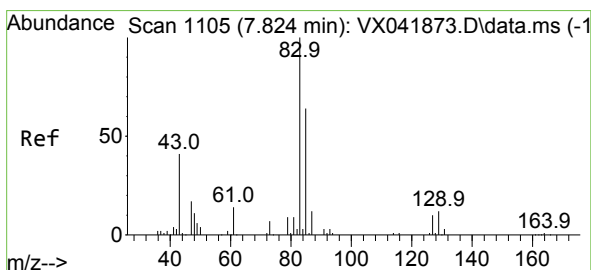
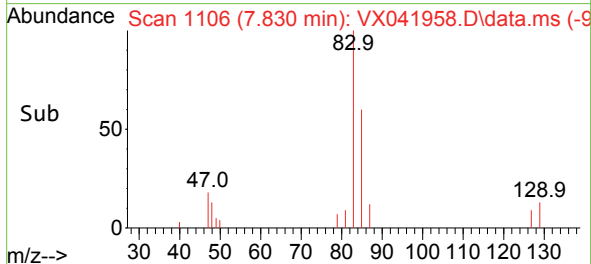
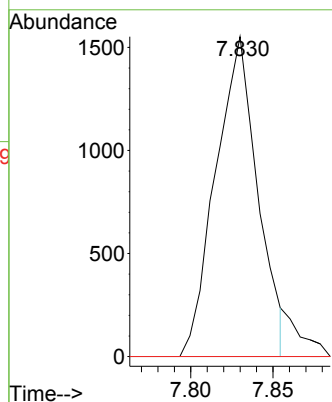
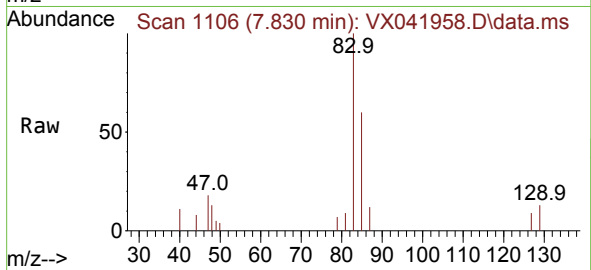




#38
Methylcyclohexane
Concen: 1.097 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.451 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

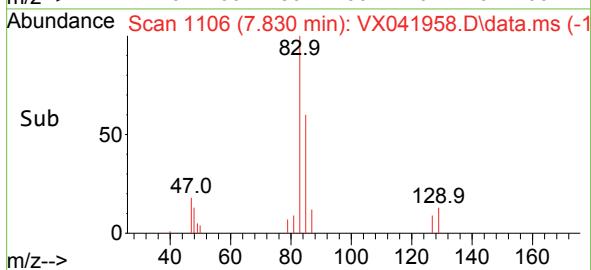
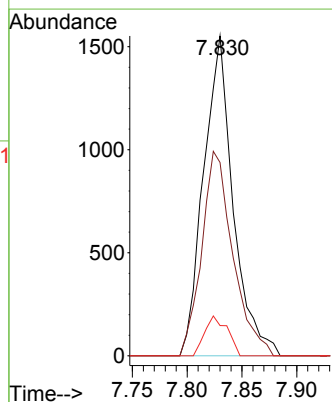
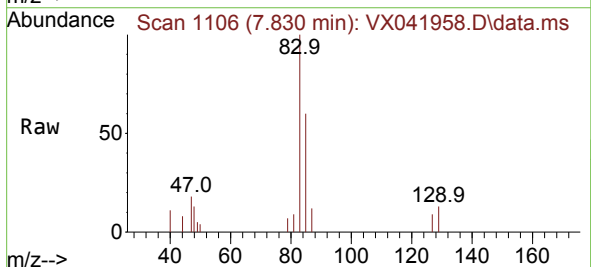
Instrument :
MSVOA_X
ClientSampleId :

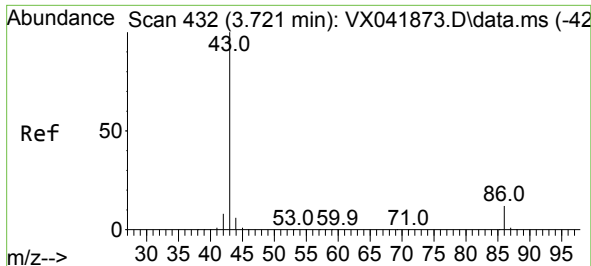
Tgt Ion: 83 Resp: 2758
Ion Ratio Lower Upper
83 100
55 0.0 37.3 111.9#
98 0.0 24.8 74.4#



#41
Bromodichloromethane
Concen: 1.459 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

Tgt Ion: 83 Resp: 2912
Ion Ratio Lower Upper
83 100
85 60.4 51.1 76.7
127 9.5 8.1 12.1

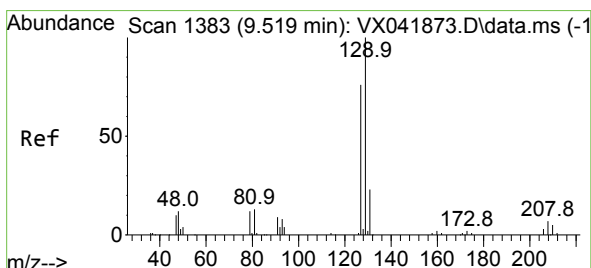
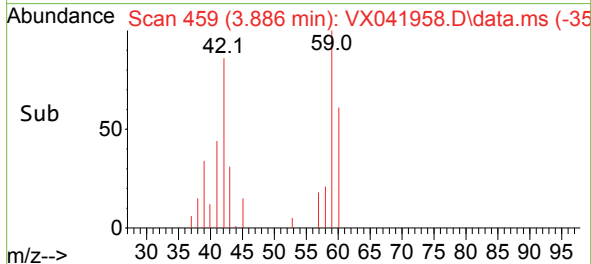
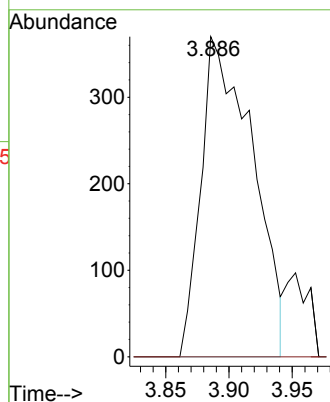
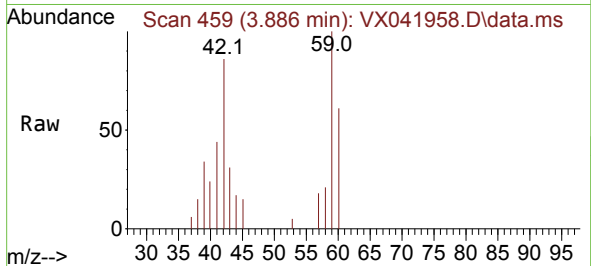




#42
 Vinyl Acetate
 Concen: 0.246 ug/l
 RT: 3.886 min Scan# 41
 Delta R.T. 0.165 min
 Lab File: VX041958.D
 Acq: 20 Jun 2024 12:15

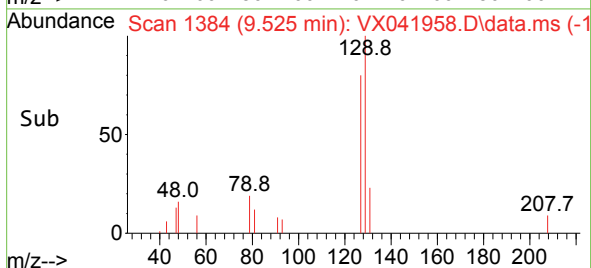
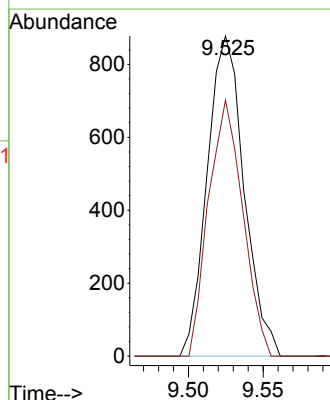
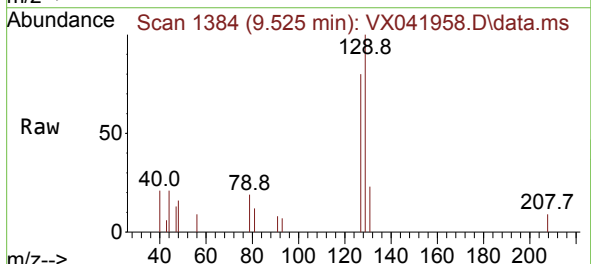
Instrument :
 MSVOA_X
 ClientSampleId :

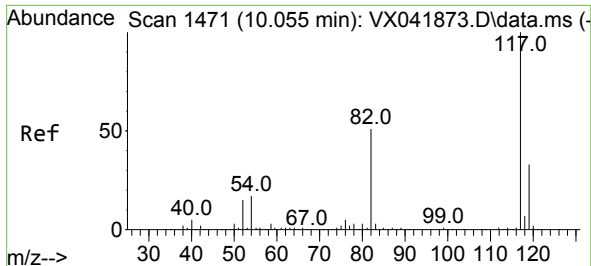
Tgt Ion: 43 Resp: 1046
 Ion Ratio Lower Upper
 43 100
 86 0.0 8.5 12.7#



#53
 Dibromochloromethane
 Concen: 0.849 ug/l
 RT: 9.525 min Scan# 1384
 Delta R.T. 0.006 min
 Lab File: VX041958.D
 Acq: 20 Jun 2024 12:15

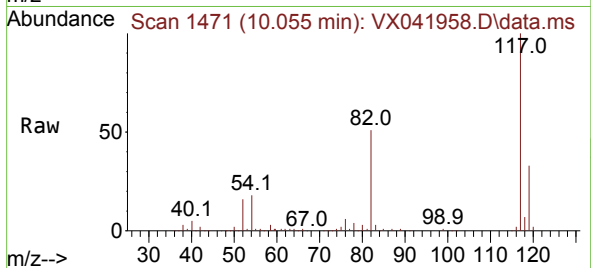
Tgt Ion: 129 Resp: 1506
 Ion Ratio Lower Upper
 129 100
 127 74.1 38.8 116.4



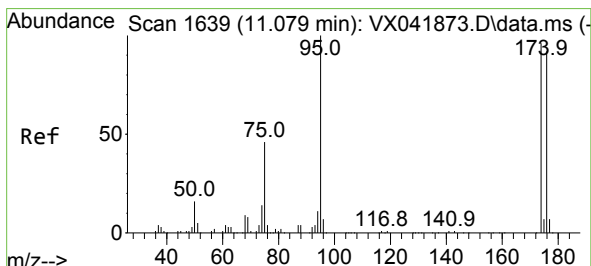
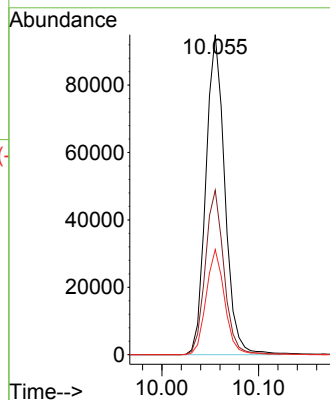
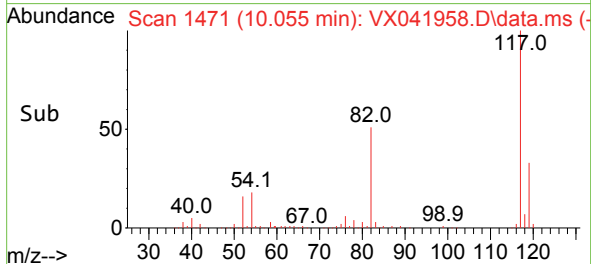


#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

Instrument :
MSVOA_X
ClientSampleId :

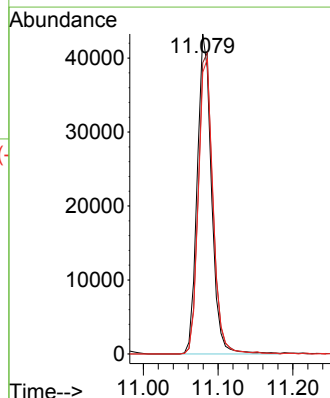
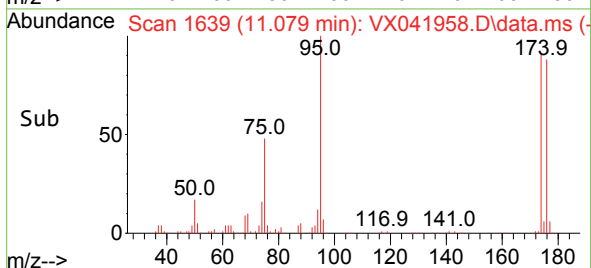
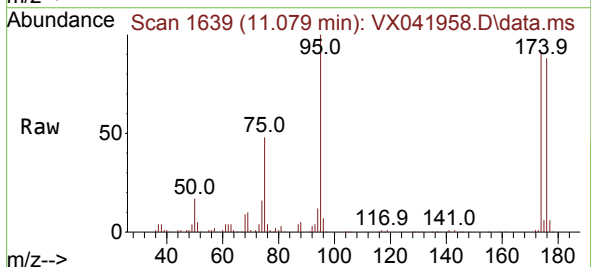


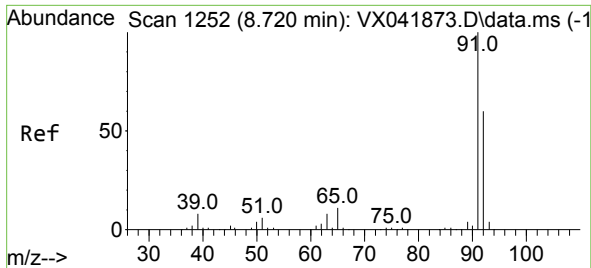
Tgt Ion:117 Resp: 129405
Ion Ratio Lower Upper
117 100
82 51.0 41.1 61.7
119 32.4 26.1 39.1



#60
4-Bromofluorobenzene
Concen: 28.568 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

Tgt Ion: 95 Resp: 57224
Ion Ratio Lower Upper
95 100
174 95.1 78.9 118.3
176 94.5 77.1 115.7

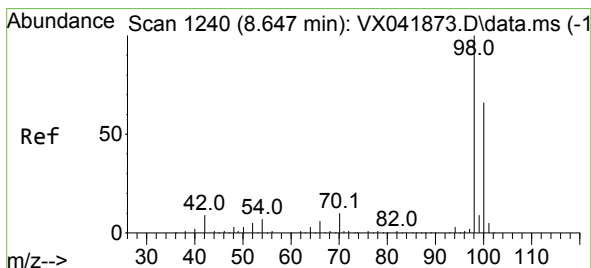
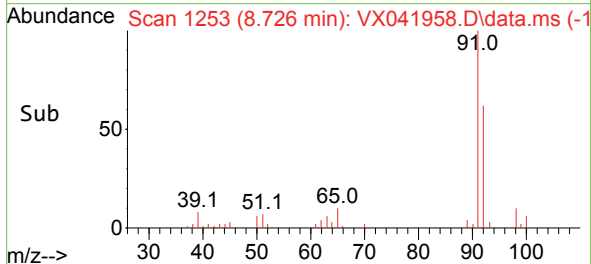
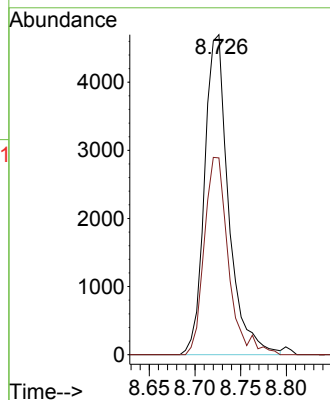
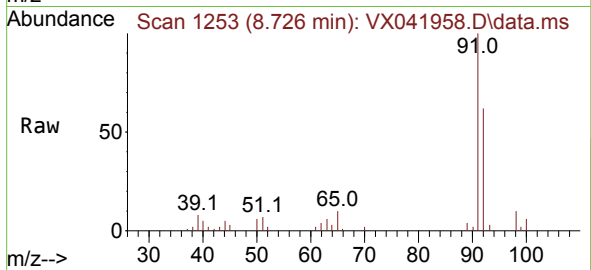




#62
Toluene
Concen: 1.311 ug/l
RT: 8.726 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

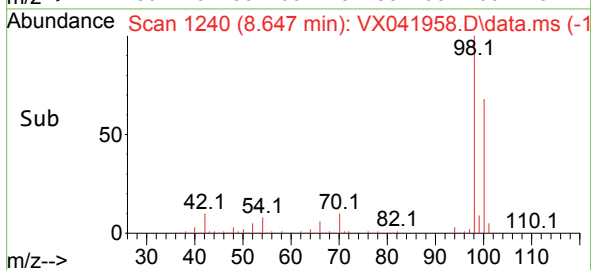
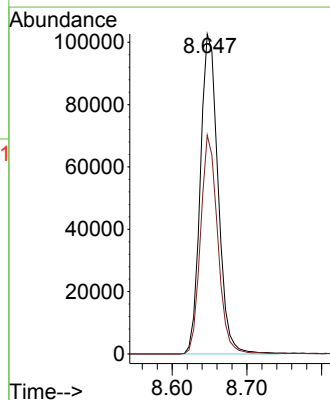
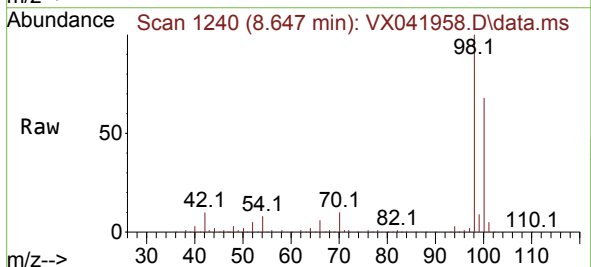
Instrument :
MSVOA_X
ClientSampleId :

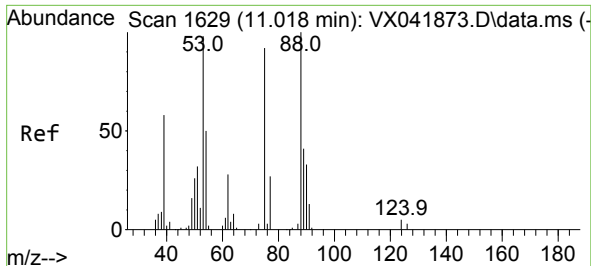
Tgt Ion: 91 Resp: 8584
Ion Ratio Lower Upper
91 100
92 59.5 47.4 71.2



#63
Toluene-d8
Concen: 30.481 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX041958.D
Acq: 20 Jun 2024 12:15

Tgt Ion: 98 Resp: 168757
Ion Ratio Lower Upper
98 100
100 66.0 52.7 79.1





#77

t-1,4-Dichloro-2-butene

Concen: 35.092 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

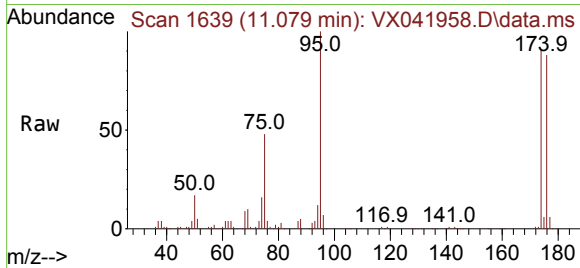
Lab File: VX041958.D

Acq: 20 Jun 2024 12:15

Instrument :

MSVOA_X

ClientSampleId :



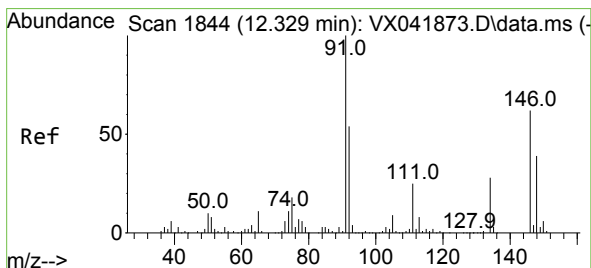
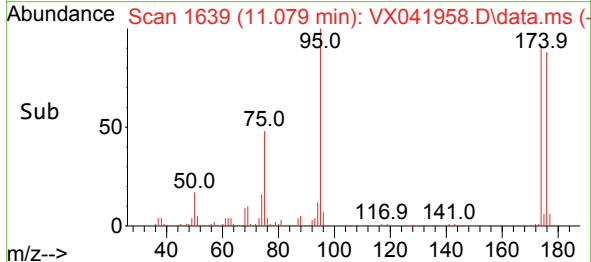
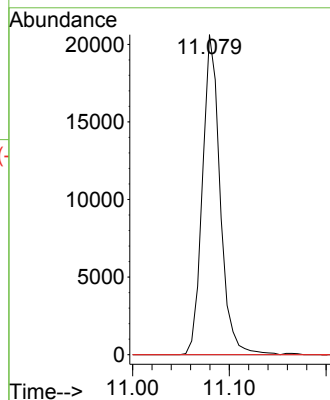
Tgt Ion: 75 Resp: 26269

Ion Ratio Lower Upper

75 100

53 0.0 53.4 160.2#

89 0.0 22.5 67.5#



#85

n-Butylbenzene

Concen: 0.246 ug/l

RT: 11.969 min Scan# 1785

Delta R.T. -0.360 min

Lab File: VX041958.D

Acq: 20 Jun 2024 12:15

Tgt Ion: 91 Resp: 1247

Ion Ratio Lower Upper

91 100

92 79.8 0.0 109.8

134 15.3 0.0 58.4

