

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
 Data File : VX042562.D
 Acq On : 25 Jul 2024 12:44
 Operator : JC/MD
 Sample : P3355-01DL 4X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jul 26 01:35:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:30:14 2024
 Response via : Initial Calibration

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

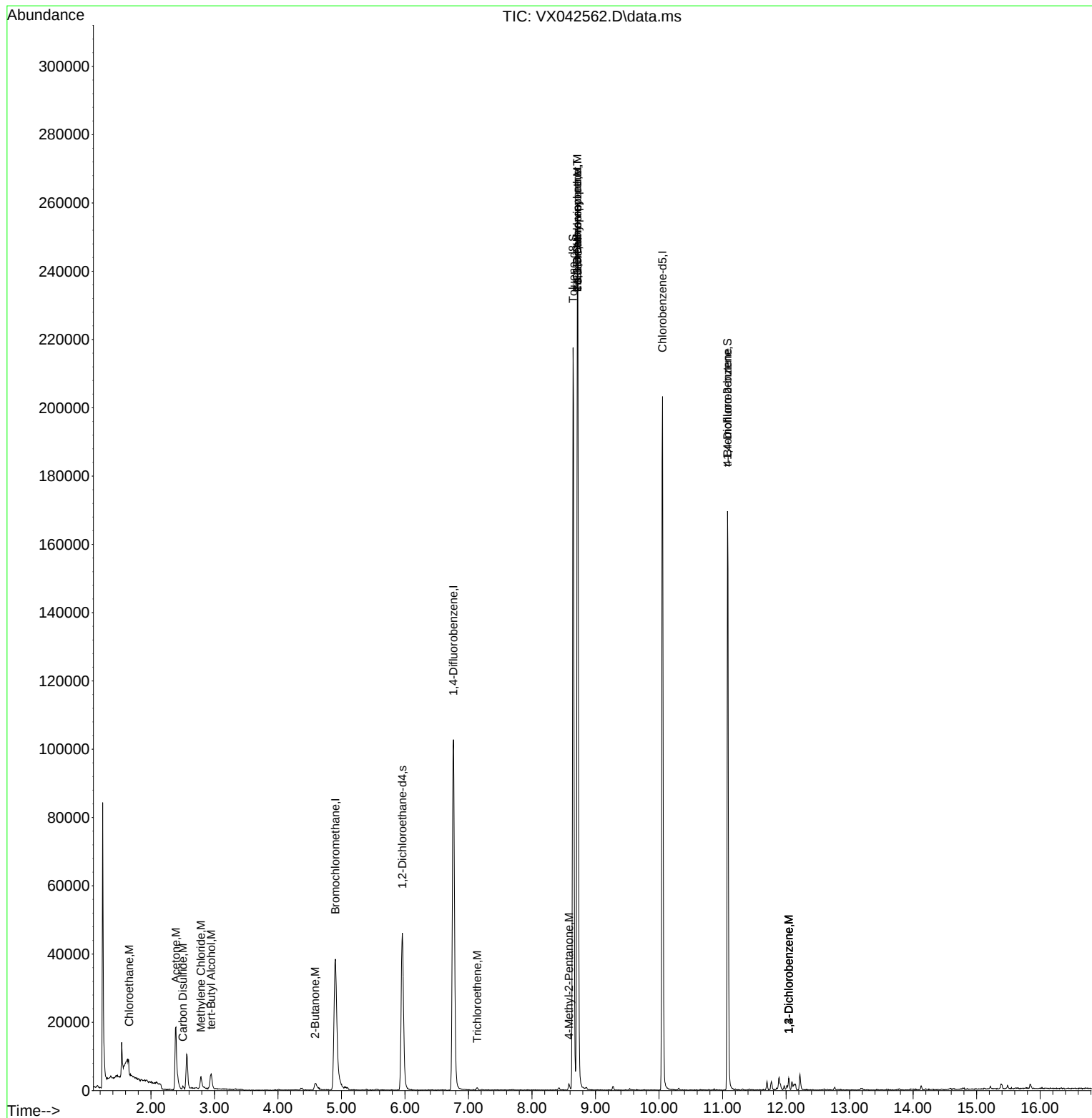
Internal Standards						
1) Bromochloromethane	4.904	128	20539	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	113269	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	103080	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	45139	30.681	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	102.267%
60) 4-Bromofluorobenzene	11.079	95	44334	27.643	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.133%
63) Toluene-d8	8.647	98	133437	29.799	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.333%
Target Compounds						
					Qvalue	
6) Chloroethane	1.654	64	238	0.432	ug/l #	59
15) Acetone	2.392	58	6771	30.797	ug/l	99
16) Carbon Disulfide	2.502	76	1507	0.637	ug/l	99
18) Methylene Chloride	2.788	84	2030	1.484	ug/l	94
23) tert-Butyl Alcohol	2.947	59	2772	9.841	ug/l #	100
30) 2-Butanone	4.587	43	3530	3.580	ug/l #	90
37) Trichloroethene	7.135	130	309	0.237	ug/l	93
48) t-1,3-Dichloropropene	8.714	75	1094	0.680	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	1094	0.605	ug/l #	1
55) 2-Chloroethyl vinyl ether	8.714	63	9354	9.779	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	1300	0.716	ug/l	96
62) Toluene	8.720	91	179982	34.924	ug/l	100
77) t-1,4-Dichloro-2-butene	11.079	75	20672	36.206	ug/l #	7
83) 1,3-Dichlorobenzene	12.043	146	966	0.330	ug/l	92
84) 1,4-Dichlorobenzene	12.043	146	966	0.333	ug/l	91
87) 1,2-Dichlorobenzene	12.043	146	966	0.327	ug/l	93

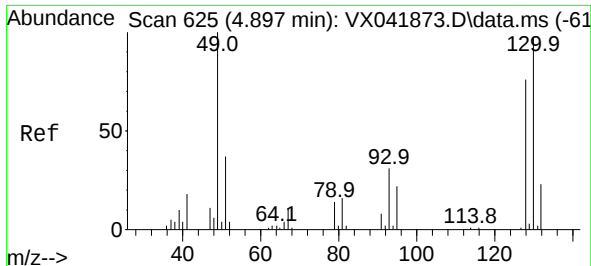
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072624\
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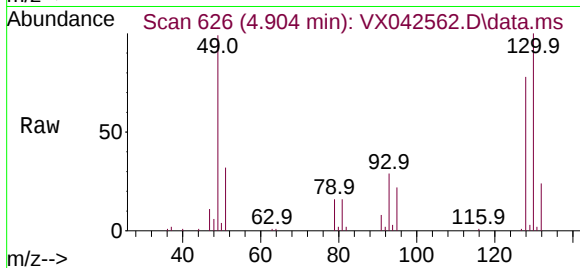
Quant Time: Jul 26 01:35:49 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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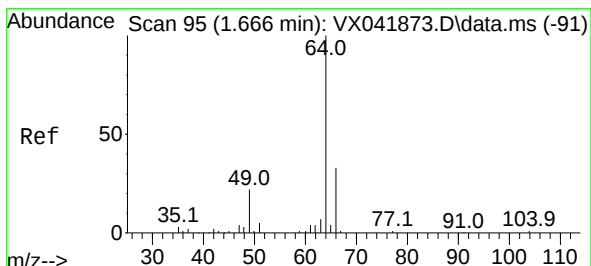
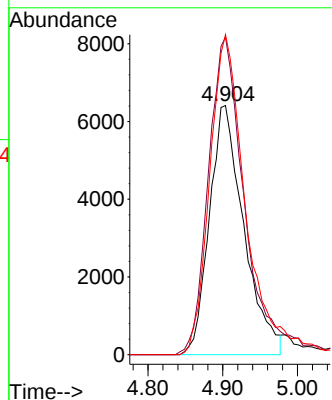
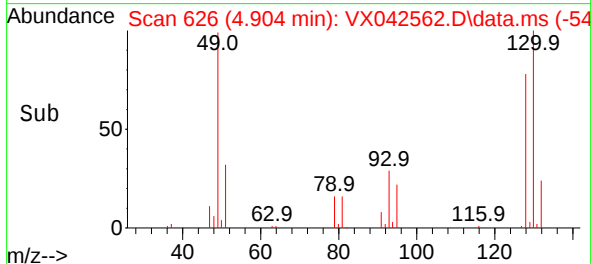


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

Instrument :
MSVOA_X
ClientSampleId :

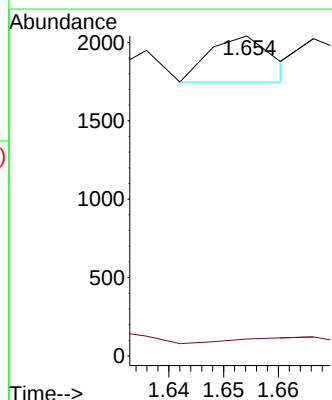
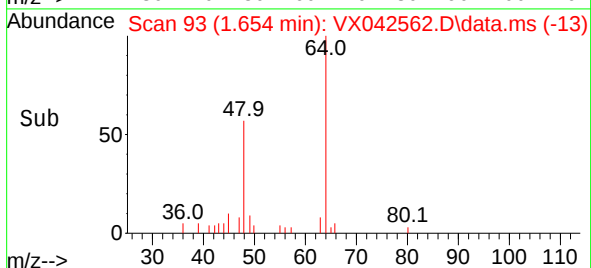
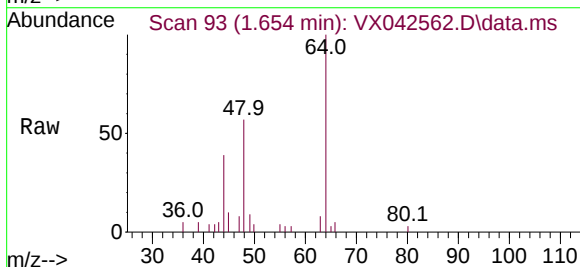


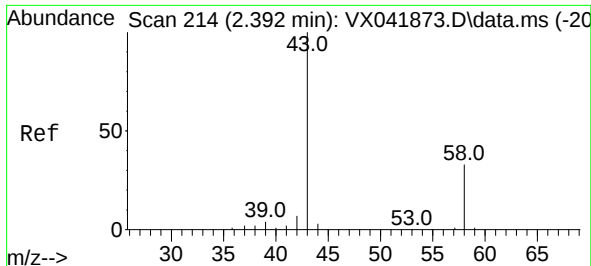
Tgt Ion:128 Resp: 20539
Ion Ratio Lower Upper
128 100
49 133.5 0.0 338.5
130 131.7 0.0 324.5



#6
Chloroethane
Concen: 0.432 ug/l
RT: 1.654 min Scan# 93
Delta R.T. -0.012 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

Tgt Ion: 64 Resp: 238
Ion Ratio Lower Upper
64 100
66 9.9 26.4 39.6#

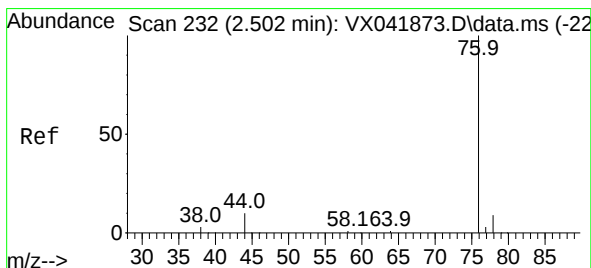
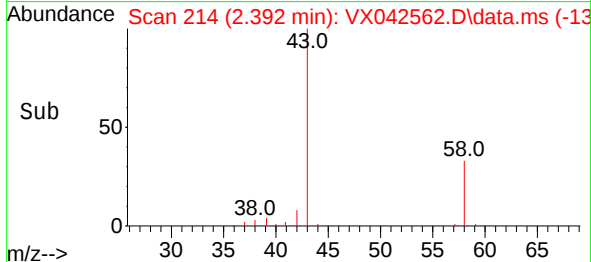
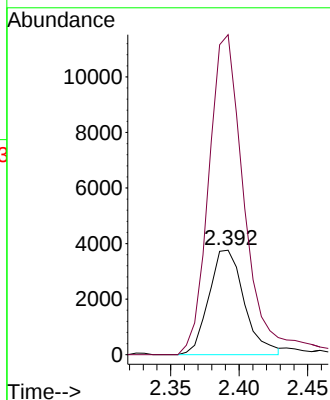
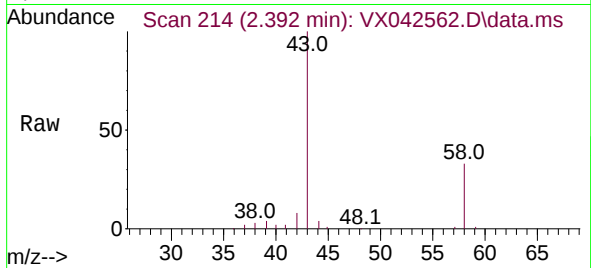




#15
Acetone
Concen: 30.797 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

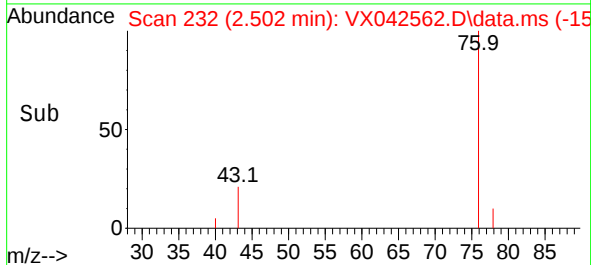
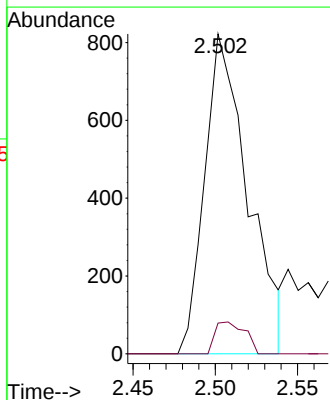
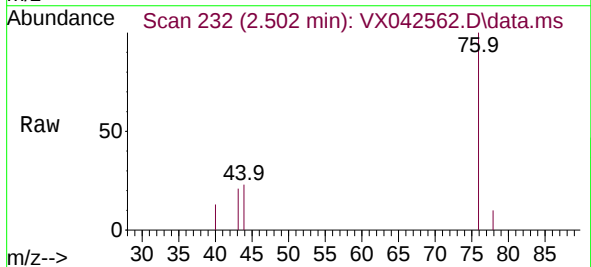
Instrument :
MSVOA_X
ClientSampleId :

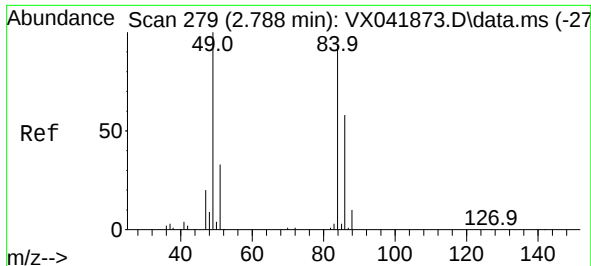
Tgt Ion: 58 Resp: 6771
Ion Ratio Lower Upper
58 100
43 306.3 243.4 365.2



#16
Carbon Disulfide
Concen: 0.637 ug/l
RT: 2.502 min Scan# 232
Delta R.T. 0.000 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

Tgt Ion: 76 Resp: 1507
Ion Ratio Lower Upper
76 100
78 9.6 7.3 10.9





#18

Methylene Chloride

Concen: 1.484 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

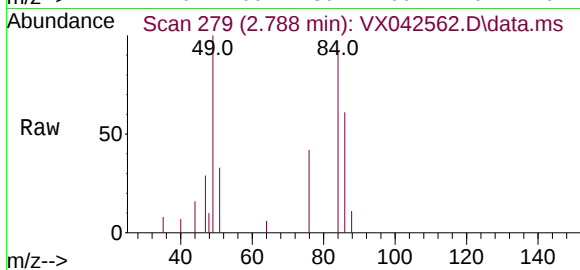
Lab File: VX042562.D

Acq: 25 Jul 2024 12:44

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 2030

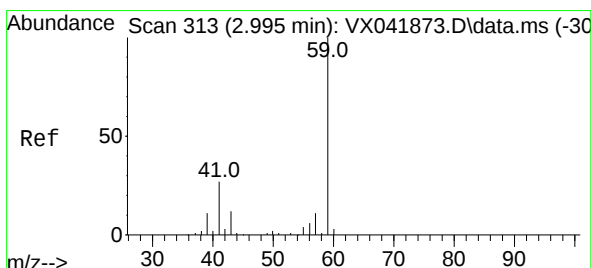
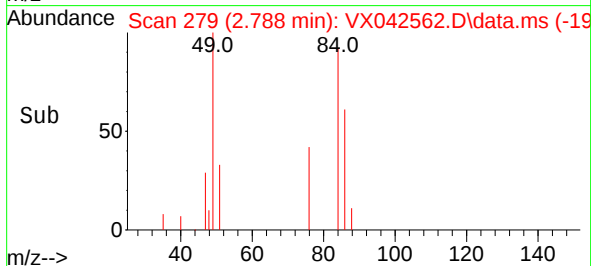
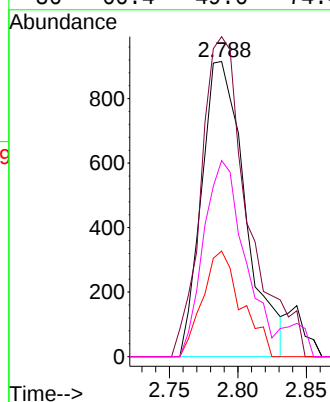
Ion Ratio Lower Upper

84 100

49 99.0 85.3 127.9

51 35.7 28.5 42.7

86 66.4 49.6 74.4



#23

tert-Butyl Alcohol

Concen: 9.841 ug/l

RT: 2.947 min Scan# 305

Delta R.T. -0.049 min

Lab File: VX042562.D

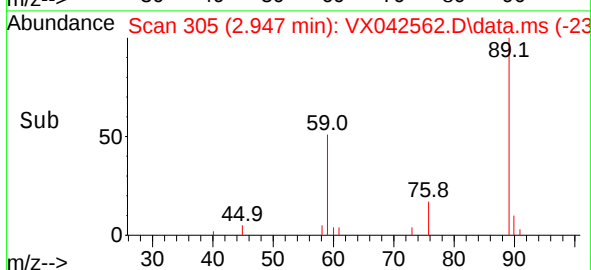
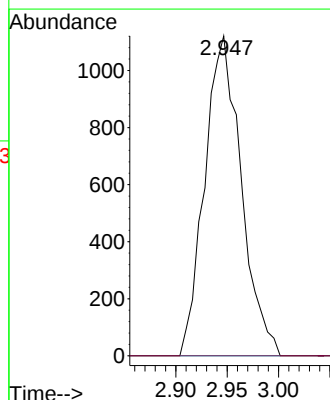
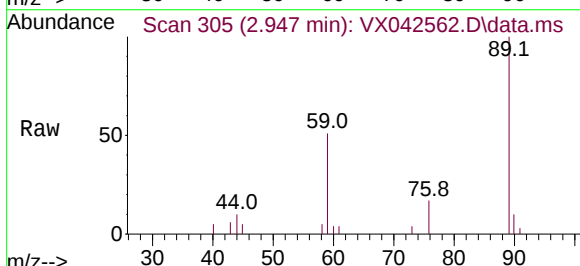
Acq: 25 Jul 2024 12:44

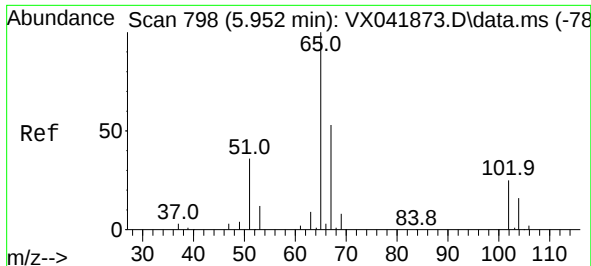
Tgt Ion: 59 Resp: 2772

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

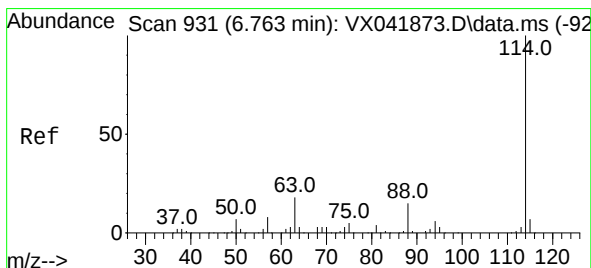
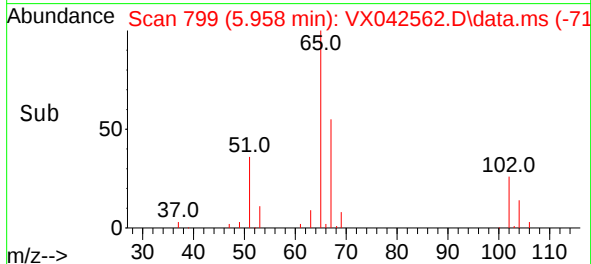
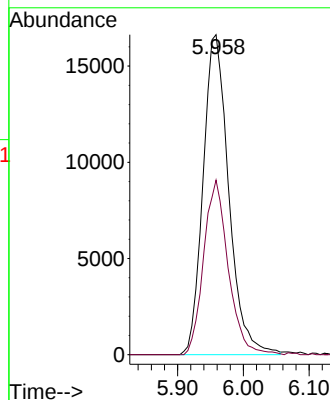
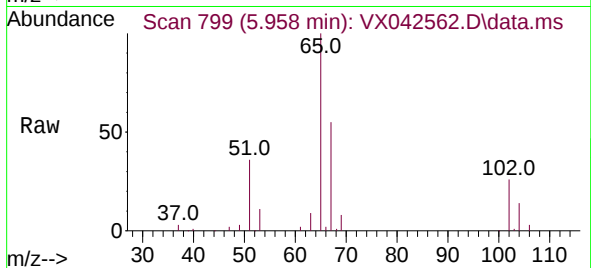




#27
1,2-Dichloroethane-d4
Concen: 30.681 ug/l
RT: 5.958 min Scan# 798
Delta R.T. 0.006 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

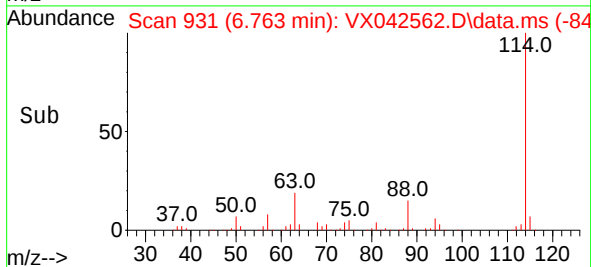
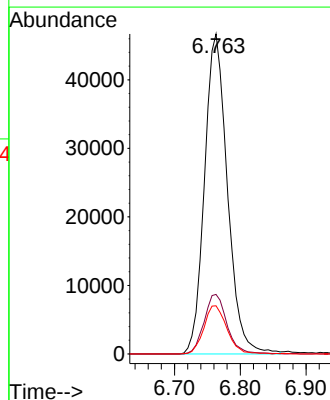
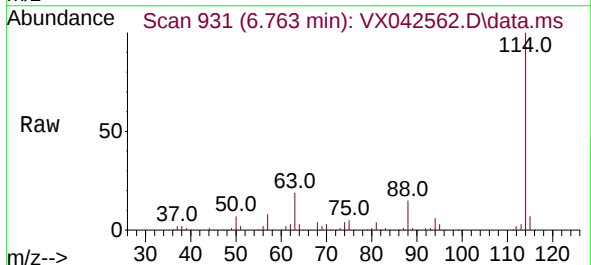
Instrument :
MSVOA_X
ClientSampleId :

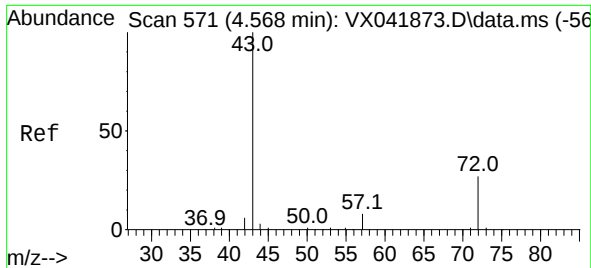
Tgt Ion: 65 Resp: 45139
Ion Ratio Lower Upper
65 100
67 52.2 43.4 65.0



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

Tgt Ion:114 Resp: 113269
Ion Ratio Lower Upper
114 100
63 18.5 14.6 21.8
88 15.1 11.8 17.8

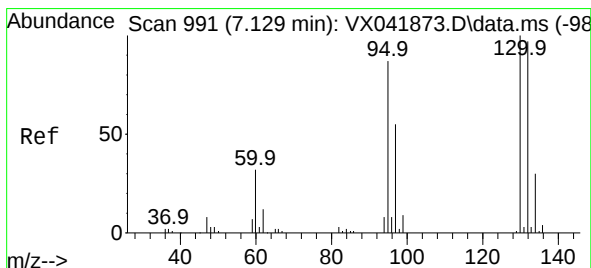
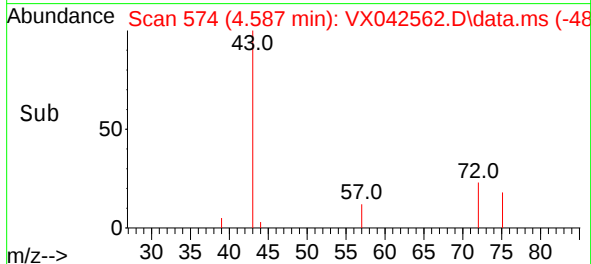
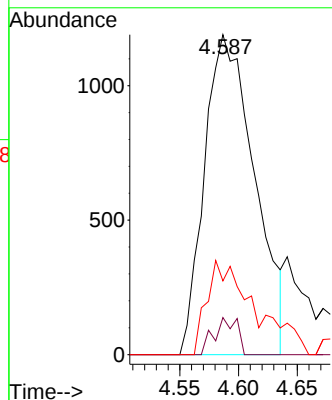
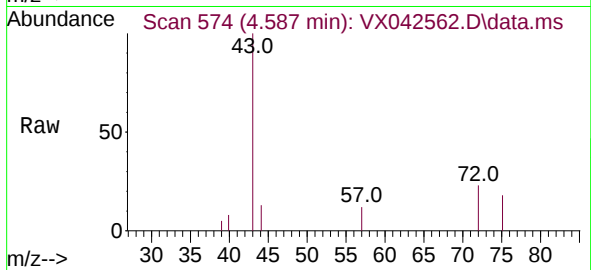




#30
2-Butanone
Concen: 3.580 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.018 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

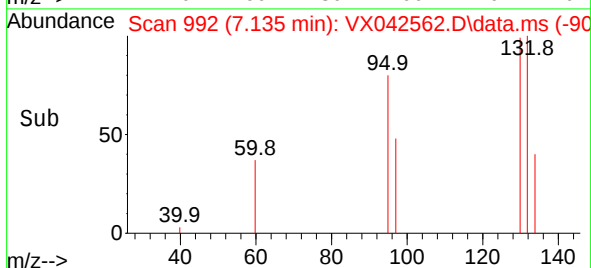
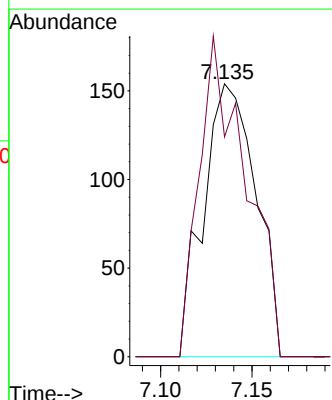
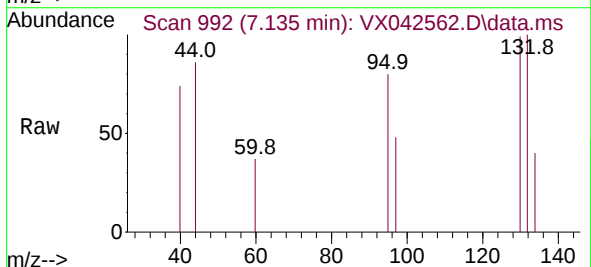
Instrument :
MSVOA_X
ClientSampleId :

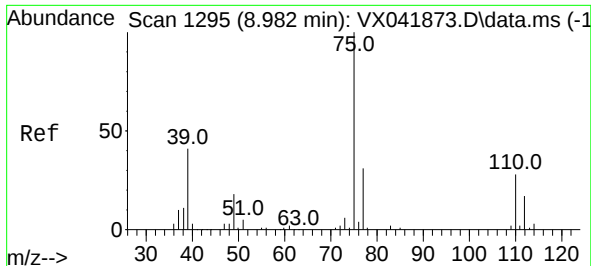
Tgt Ion: 43 Resp: 3530
Ion Ratio Lower Upper
43 100
57 5.3 6.5 9.7#
72 21.8 22.0 33.0#



#37
Trichloroethene
Concen: 0.237 ug/l
RT: 7.135 min Scan# 992
Delta R.T. 0.006 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

Tgt Ion:130 Resp: 309
Ion Ratio Lower Upper
130 100
95 80.5 69.4 104.0





#48

t-1,3-Dichloropropene

Concen: 0.680 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.268 min

Lab File: VX042562.D

Acq: 25 Jul 2024 12:44

Instrument :

MSVOA_X

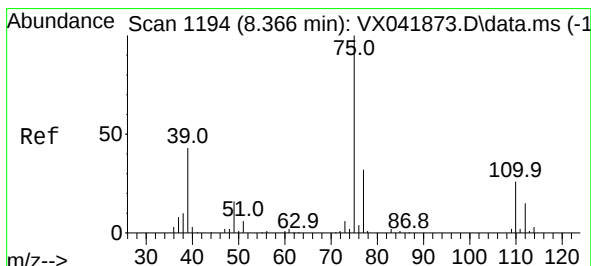
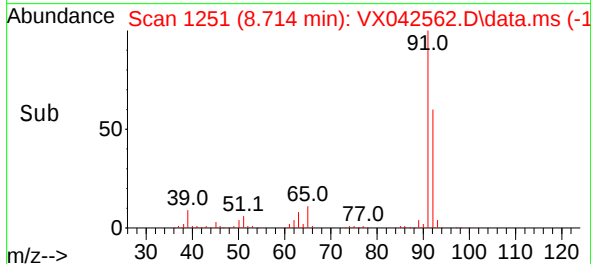
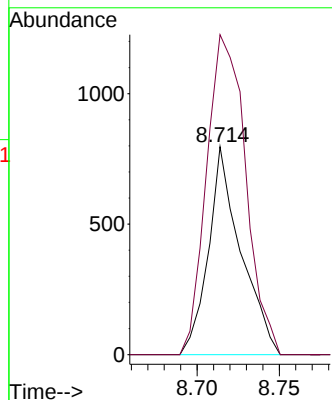
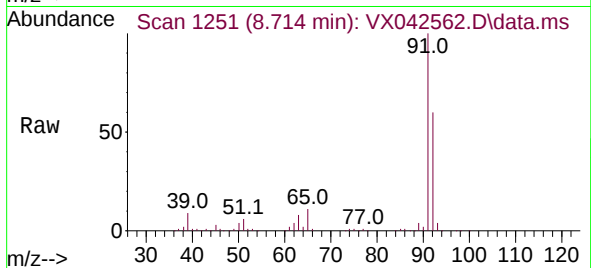
ClientSampleId :

Tgt Ion: 75 Resp: 1094

Ion Ratio Lower Upper

75 100

77 153.8 25.1 37.7#



#49

cis-1,3-Dichloropropene

Concen: 0.605 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.348 min

Lab File: VX042562.D

Acq: 25 Jul 2024 12:44

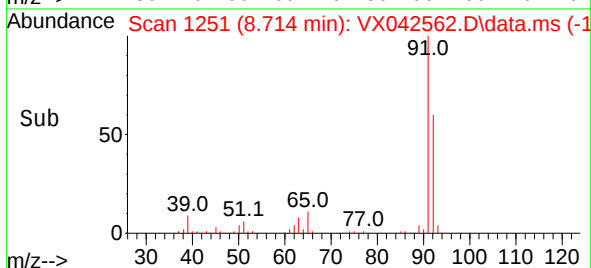
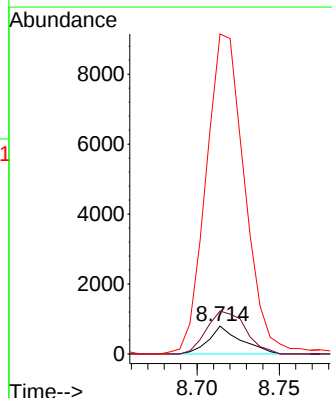
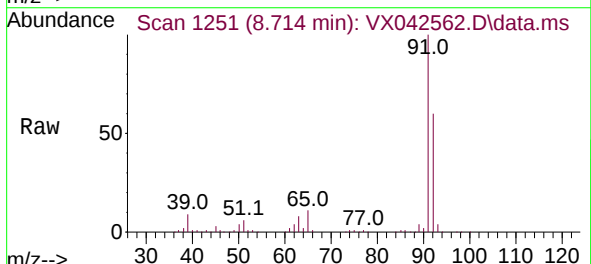
Tgt Ion: 75 Resp: 1094

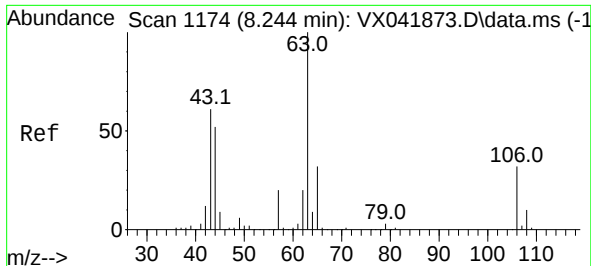
Ion Ratio Lower Upper

75 100

77 153.8 25.8 38.8#

39 1130.6 34.8 52.2#





#55

2-Chloroethyl vinyl ether

Concen: 9.779 ug/l

RT: 8.714 min Scan# 1174

Delta R.T. 0.470 min

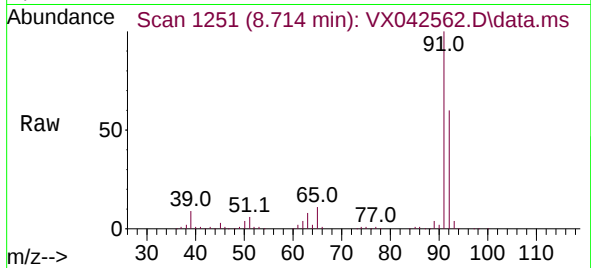
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Acq: 25 Jul 2024 12:44

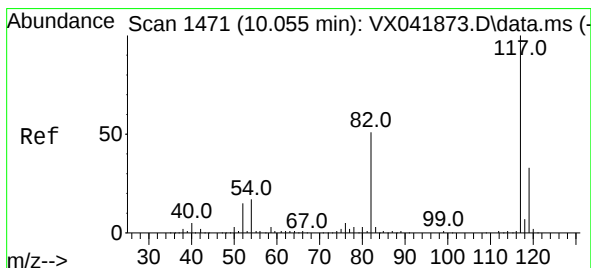
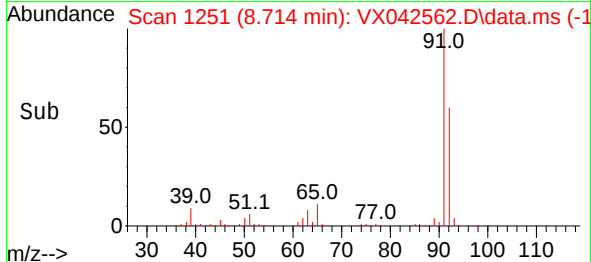
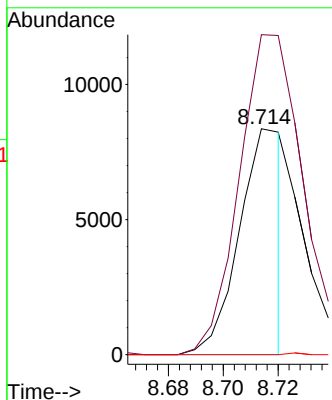
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	63	Resp:	9354
Ion	Ratio	Lower	Upper
63	100		
65	143.2	25.7	38.5#
106	0.0	25.3	37.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

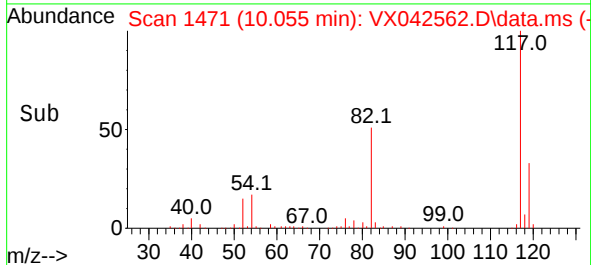
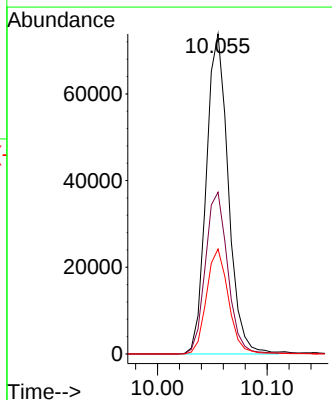
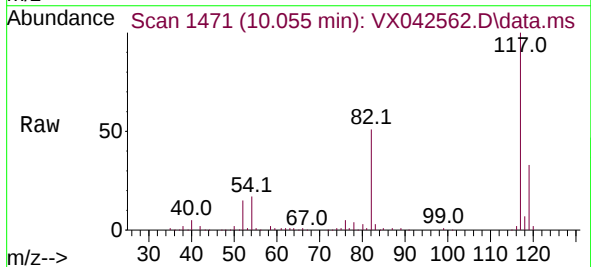
RT: 10.055 min Scan# 1471

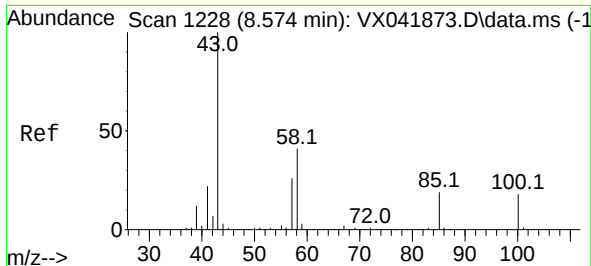
Delta R.T. 0.000 min

Lab File: VX042562.D

Acq: 25 Jul 2024 12:44

Tgt Ion:	117	Resp:	103080
Ion	Ratio	Lower	Upper
117	100		
82	51.4	41.1	61.7
119	32.6	26.1	39.1

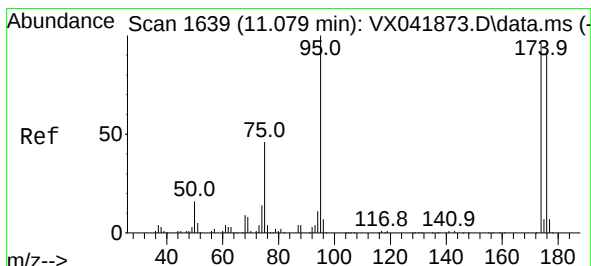
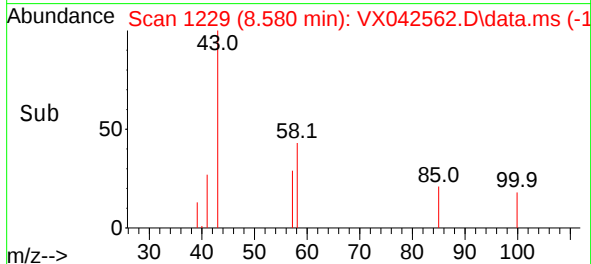
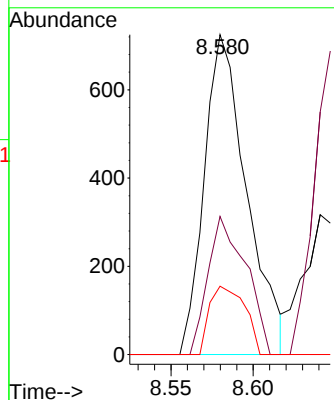
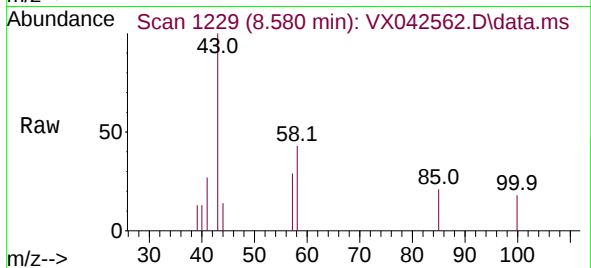




#58
4-Methyl-2-Pentanone
Concen: 0.716 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

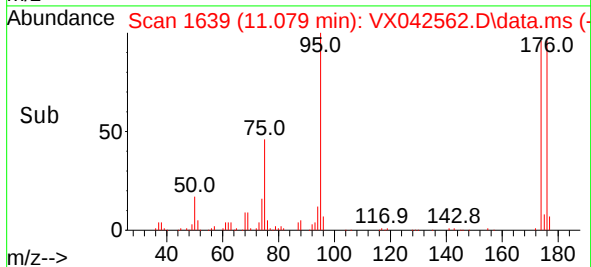
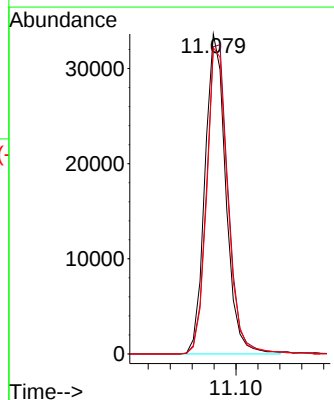
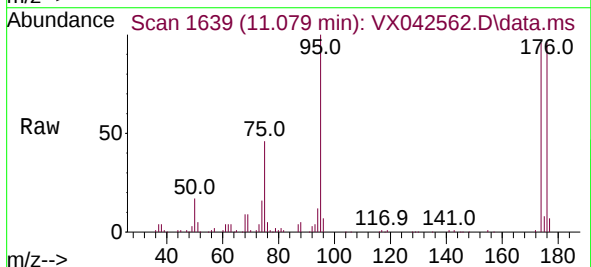
Instrument :
MSVOA_X
ClientSampleId :

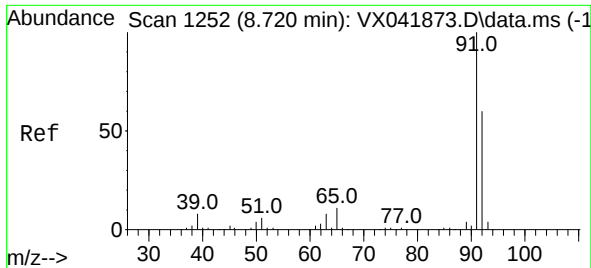
Tgt Ion: 43 Resp: 1300
Ion Ratio Lower Upper
43 100
58 38.6 33.2 49.8
85 17.8 15.5 23.3



#60
4-Bromofluorobenzene
Concen: 27.643 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

Tgt Ion: 95 Resp: 44334
Ion Ratio Lower Upper
95 100
174 100.6 78.9 118.3
176 97.1 77.1 115.7





#62

Toluene

Concen: 34.924 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX042562.D

Acq: 25 Jul 2024 12:44

Instrument :

MSVOA_X

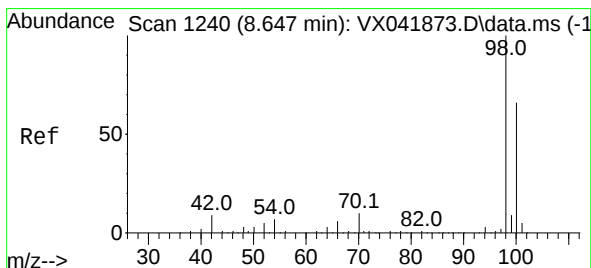
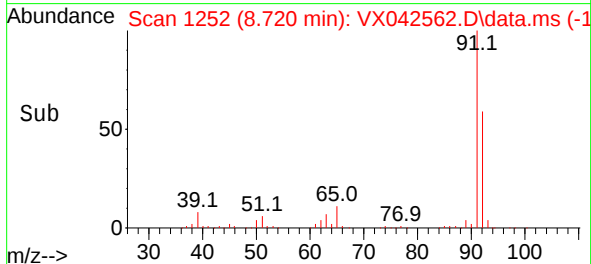
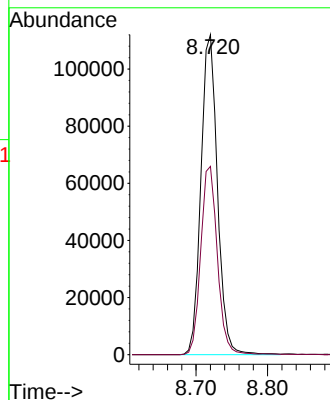
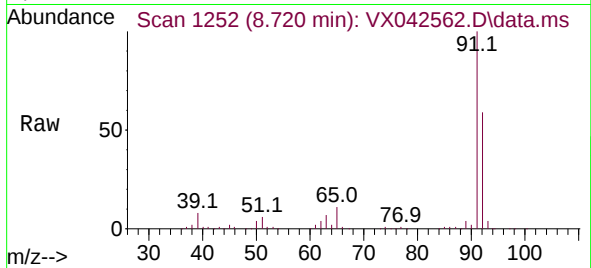
ClientSampleId :

Tgt Ion: 91 Resp: 179982

Ion Ratio Lower Upper

91 100

92 59.0 47.4 71.2



#63

Toluene-d8

Concen: 29.799 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX042562.D

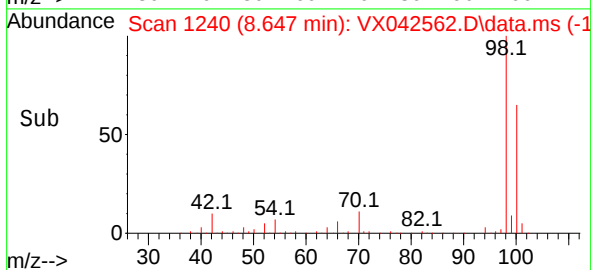
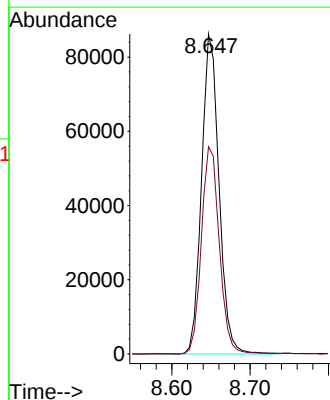
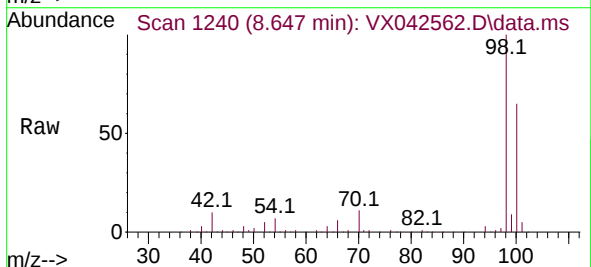
Acq: 25 Jul 2024 12:44

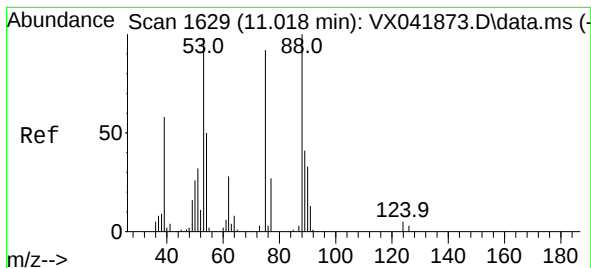
Tgt Ion: 98 Resp: 133437

Ion Ratio Lower Upper

98 100

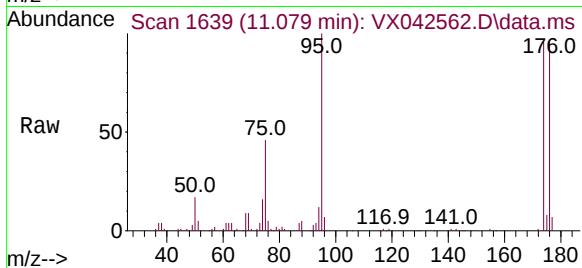
100 66.6 52.7 79.1



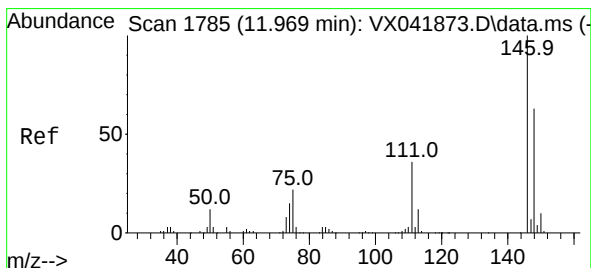
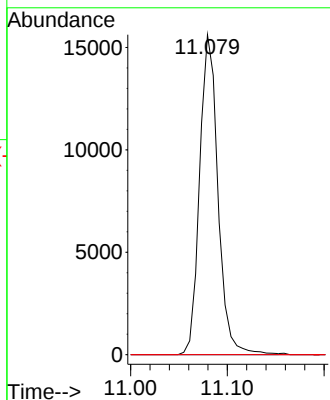
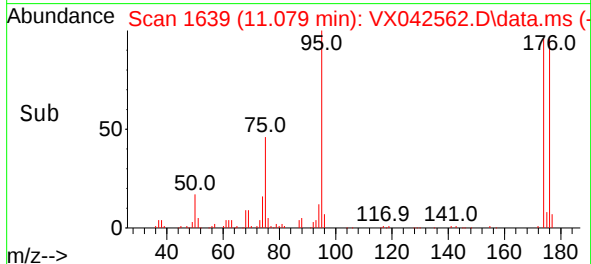


#77
t-1,4-Dichloro-2-butene
Concen: 36.206 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44

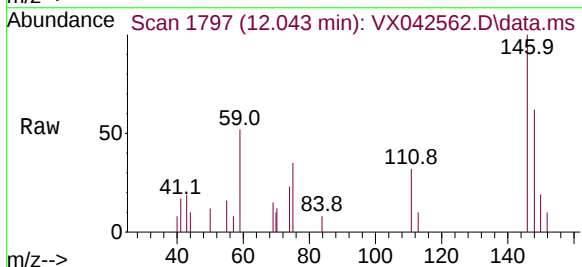
Instrument :
MSVOA_X
ClientSampleId :



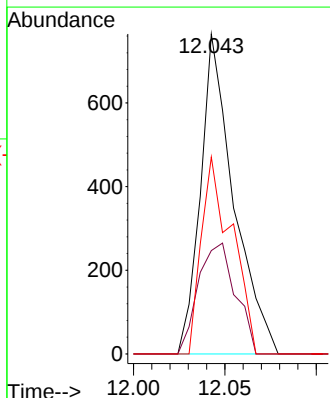
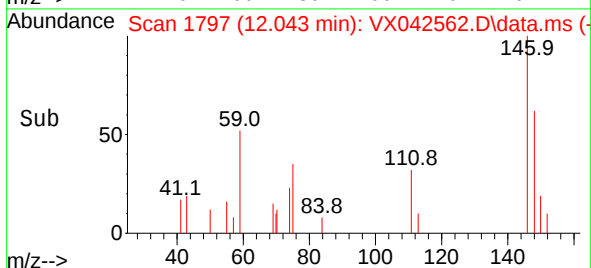
Tgt Ion: 75 Resp: 20672
Ion Ratio Lower Upper
75 100
53 0.0 53.4 160.2#
89 0.0 22.5 67.5#

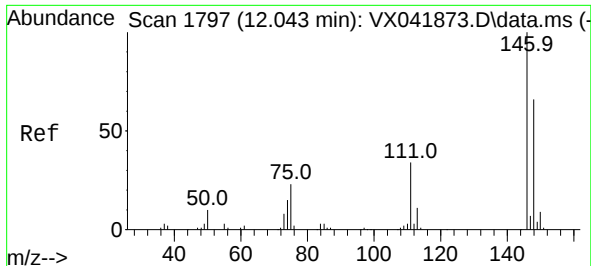


#83
1,3-Dichlorobenzene
Concen: 0.330 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.073 min
Lab File: VX042562.D
Acq: 25 Jul 2024 12:44



Tgt Ion: 146 Resp: 966
Ion Ratio Lower Upper
146 100
111 38.9 18.0 54.0
148 56.7 31.9 95.7





#84

1,4-Dichlorobenzene

Concen: 0.333 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. 0.000 min

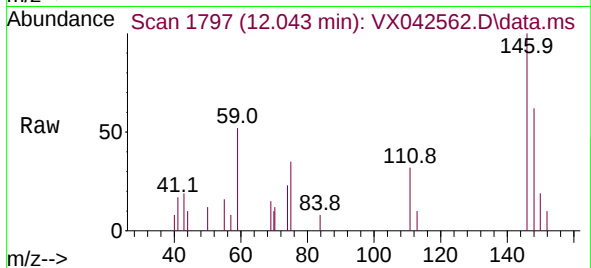
Lab File: VX042562.D

Acq: 25 Jul 2024 12:44

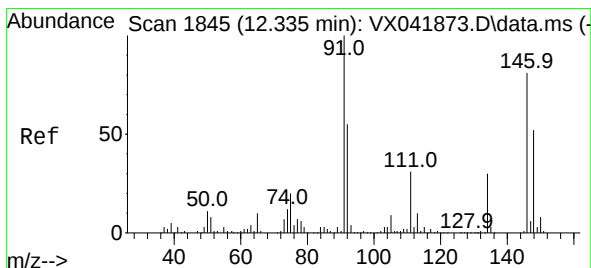
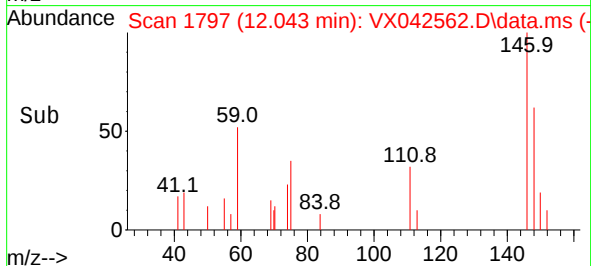
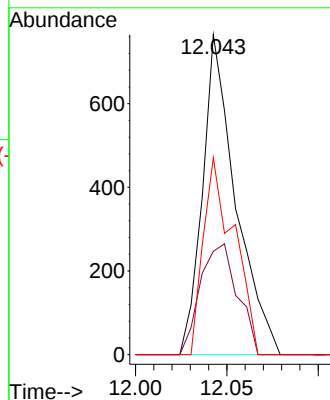
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	146	Resp:	966
Ion	Ratio	Lower	Upper
146	100		
111	38.9	17.4	52.3
148	56.7	32.3	96.9



#87

1,2-Dichlorobenzene

Concen: 0.327 ug/l

RT: 12.043 min Scan# 1797

Delta R.T. -0.293 min

Lab File: VX042562.D

Acq: 25 Jul 2024 12:44

Tgt Ion:	146	Resp:	966
Ion	Ratio	Lower	Upper
146	100		
111	38.9	19.1	57.3
148	56.7	32.4	97.0

