

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071523\
 Data File : VX036555.D
 Acq On : 14 Jul 2023 11:48
 Operator : JC/MD
 Sample : 03593-02DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(JUNE)DL

Quant Time: Jul 17 01:28:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

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

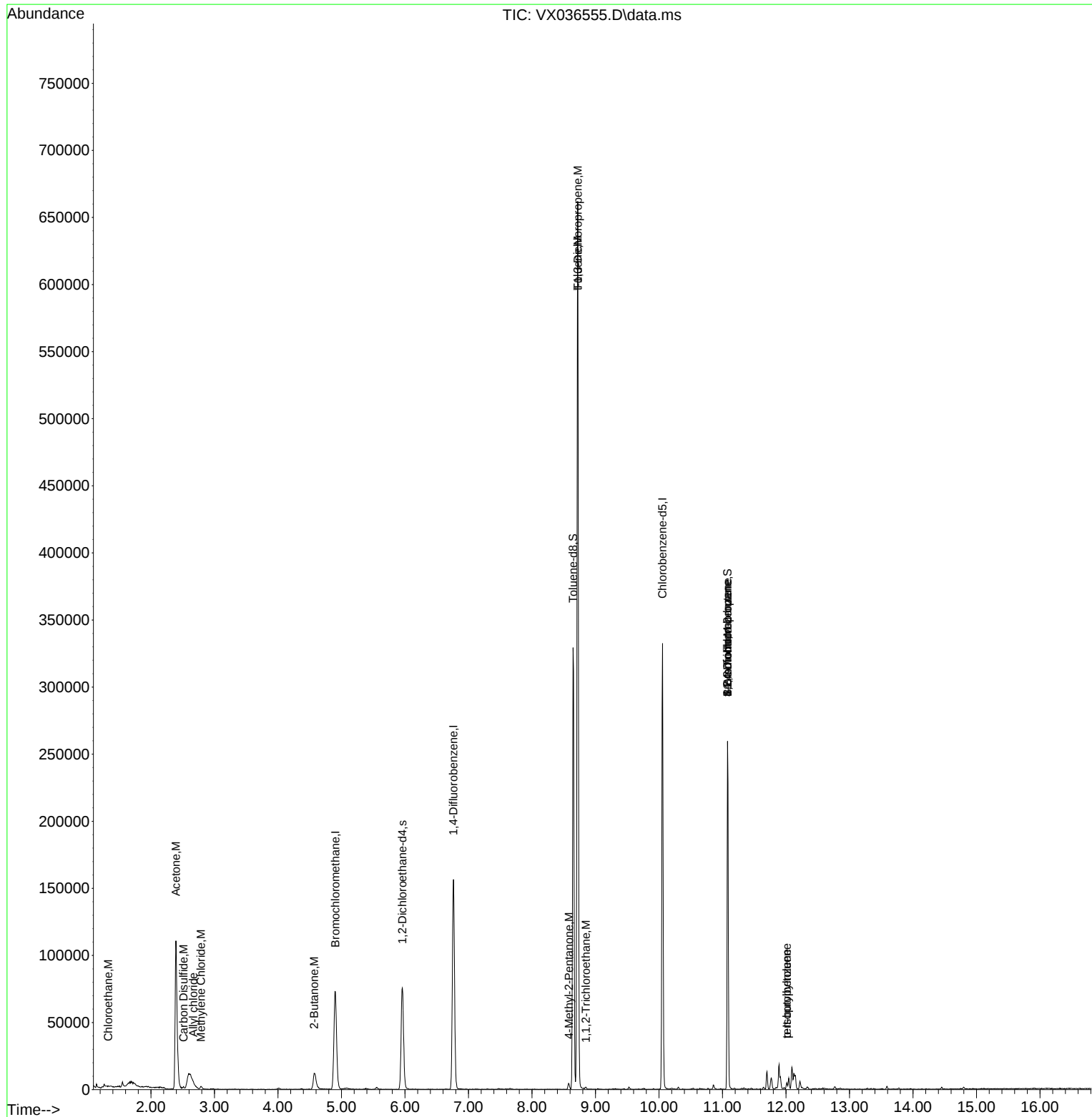
Internal Standards						
1) Bromochloromethane	4.904	128	30024	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	159501	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	146919	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	74334	29.830	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.433%
60) 4-Bromofluorobenzene	11.079	95	69117	29.002	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.667%
63) Toluene-d8	8.647	98	197397	29.198	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.333%
Target Compounds						
					Qvalue	
6) Chloroethane	1.325	64	725	0.450	ug/l	99
15) Acetone	2.392	58	44928	137.085	ug/l	95
16) Carbon Disulfide	2.514	76	1443	0.339	ug/l	98
17) Allyl chloride	2.666	41	625	0.201	ug/l #	53
18) Methylene Chloride	2.788	84	842	0.398	ug/l	94
30) 2-Butanone	4.568	43	13604	8.983	ug/l #	84
48) t-1,3-Dichloropropene	8.720	75	2898	1.000	ug/l #	1
50) 1,1,2-Trichloroethane	8.848	97	1026	0.519	ug/l #	17
56) Bromoform	11.079	173	612	0.441	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	3052	1.005	ug/l	95
62) Toluene	8.720	91	423258	51.346	ug/l	99
72) 1,2,3-Trichloropropane	11.079	75	35042	12.001	ug/l	38
77) t-1,4-Dichloro-2-butene	11.079	75	35042	36.546	ug/l #	7
79) tert-butylbenzene	12.012	119	1808	0.257	ug/l	72
82) p-Isopropyltoluene	12.012	119	1808	0.245	ug/l	89

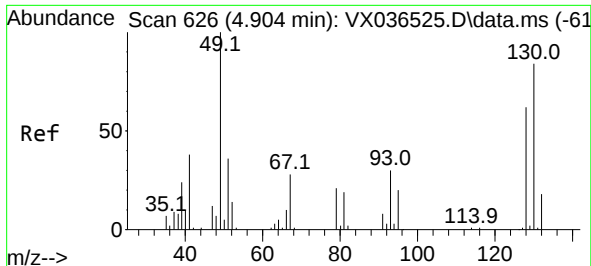
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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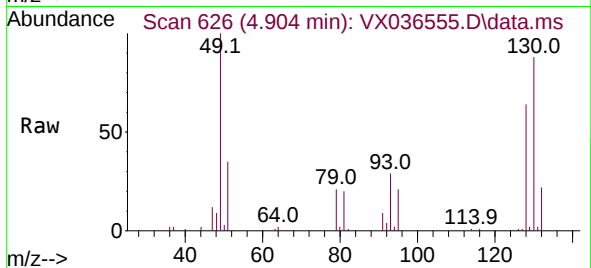
Quant Time: Jul 17 01:28:39 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 14 04:32:22 2023
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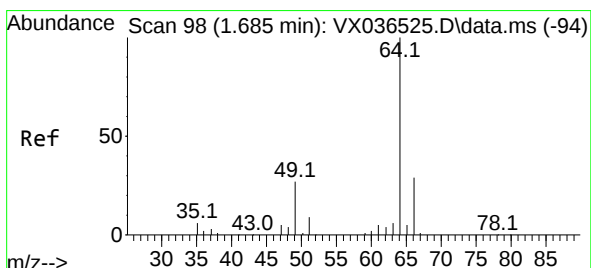
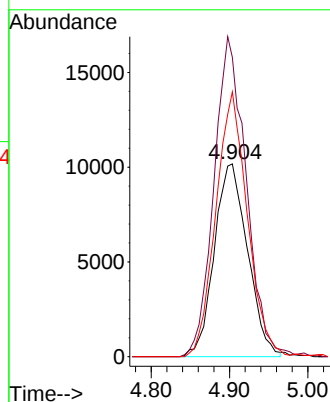
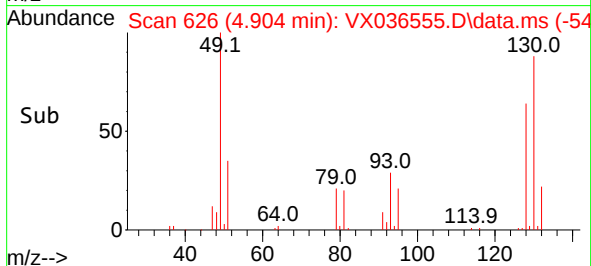


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)DL

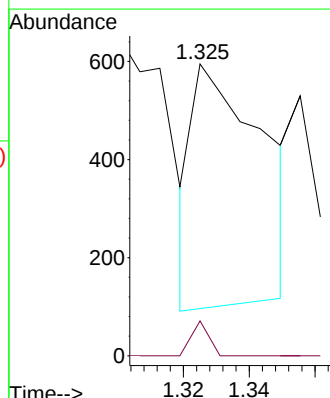
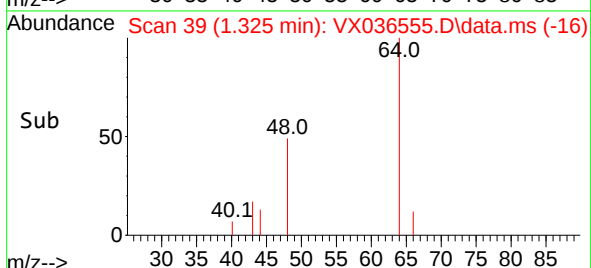
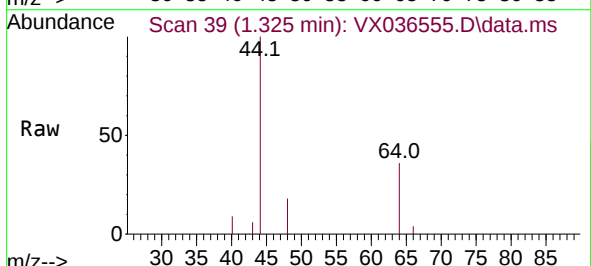


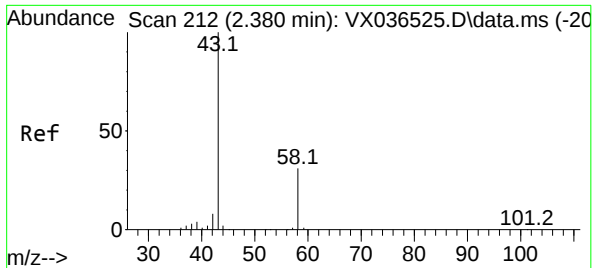
Tgt Ion:128 Resp: 30024
Ion Ratio Lower Upper
128 100
49 160.3 0.0 406.3
130 130.2 0.0 328.0



#6
Chloroethane
Concen: 0.450 ug/l
RT: 1.325 min Scan# 39
Delta R.T. -0.360 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

Tgt Ion: 64 Resp: 725
Ion Ratio Lower Upper
64 100
66 28.3 23.1 34.7

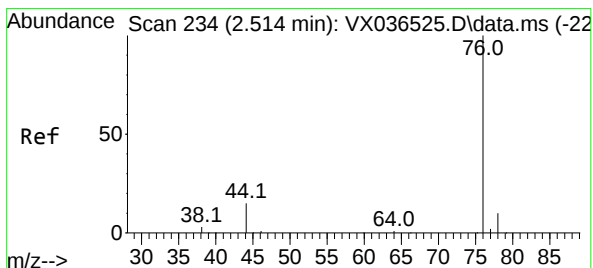
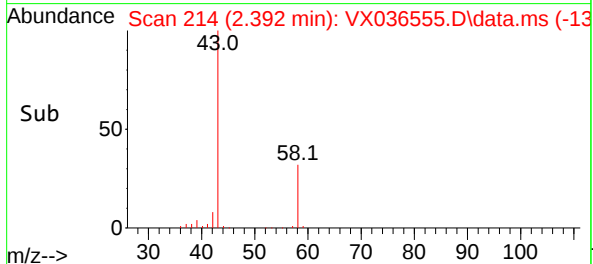
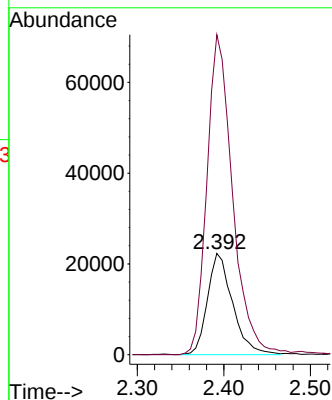
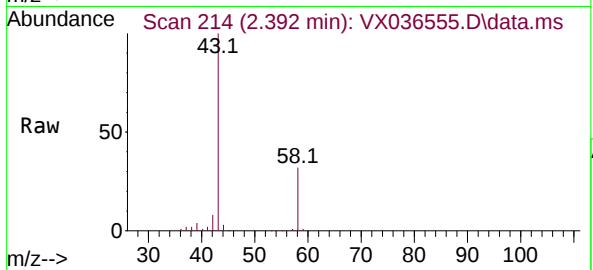




#15
Acetone
Concen: 137.085 ug/l
RT: 2.392 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

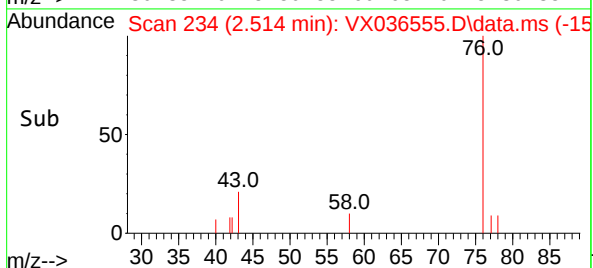
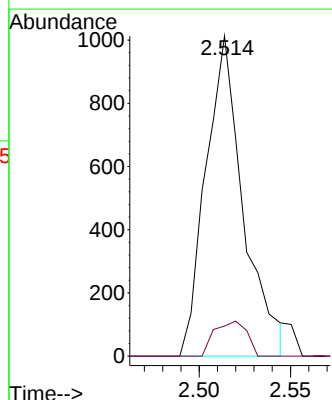
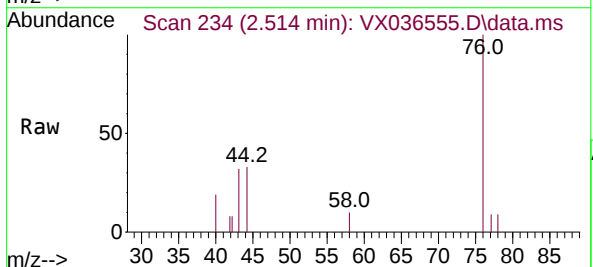
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)DL

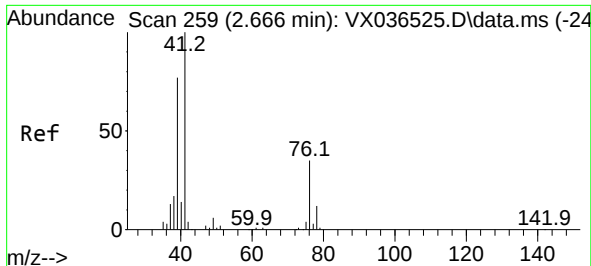
Tgt Ion: 58 Resp: 44928
Ion Ratio Lower Upper
58 100
43 315.9 261.0 391.4



#16
Carbon Disulfide
Concen: 0.339 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.000 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

Tgt Ion: 76 Resp: 1443
Ion Ratio Lower Upper
76 100
78 9.4 8.0 12.0





#17

Allyl chloride

Concen: 0.201 ug/l

RT: 2.666 min Scan# 259

Delta R.T. 0.000 min

Lab File: VX036555.D

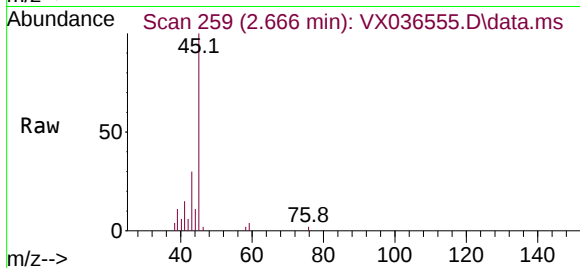
Acq: 14 Jul 2023 11:48

Instrument :

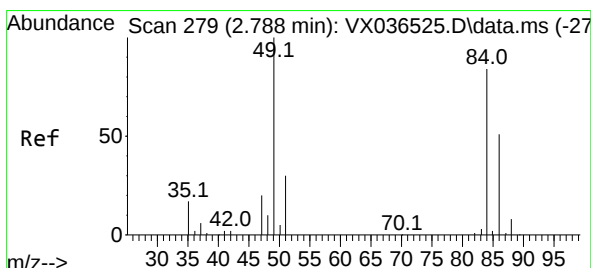
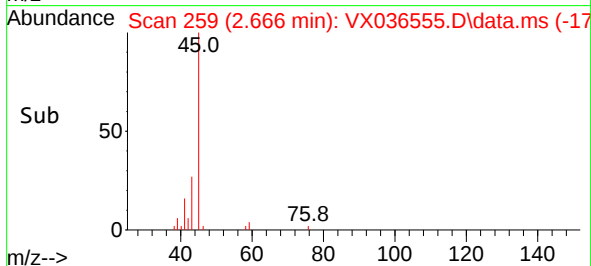
MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)DL



Tgt Ion:	41	Resp:	625
Ion	Ratio	Lower	Upper
41	100		
39	25.0	38.5	115.3#
76	25.0	18.6	55.8



#18

Methylene Chloride

Concen: 0.398 ug/l

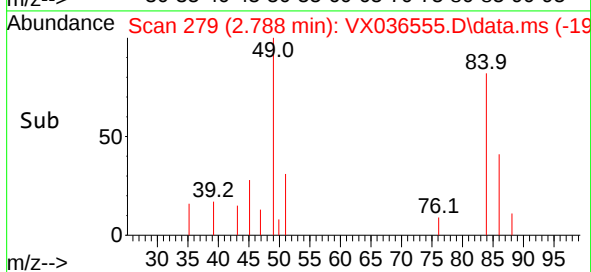
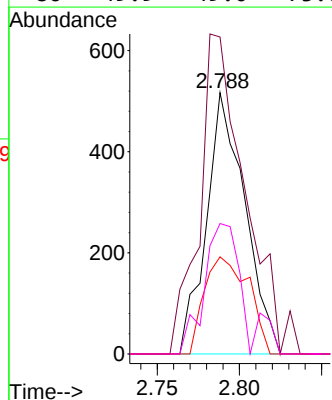
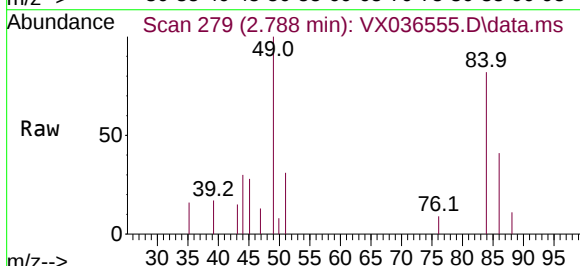
RT: 2.788 min Scan# 279

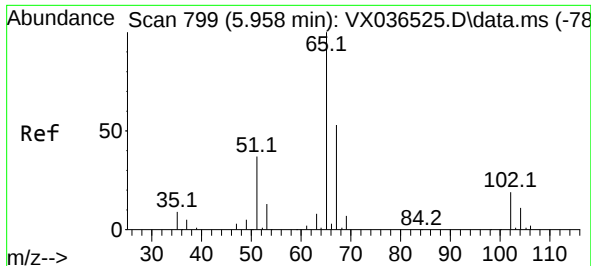
Delta R.T. 0.000 min

Lab File: VX036555.D

Acq: 14 Jul 2023 11:48

Tgt Ion:	84	Resp:	842
Ion	Ratio	Lower	Upper
84	100		
49	121.3	95.4	143.0
51	37.1	28.3	42.5
86	49.9	49.0	73.6





#27

1,2-Dichloroethane-d4

Concen: 29.830 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX036555.D

Acq: 14 Jul 2023 11:48

Instrument :

MSVOA_X

ClientSampleId :

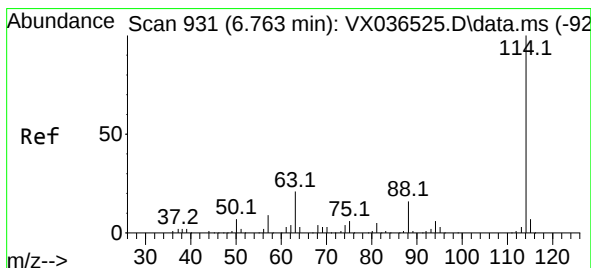
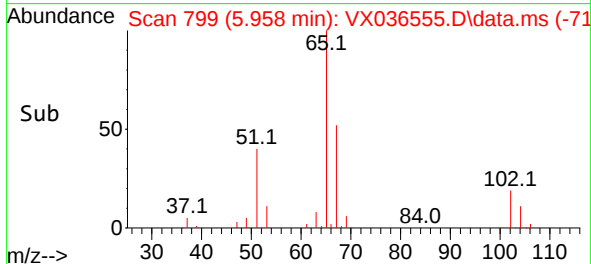
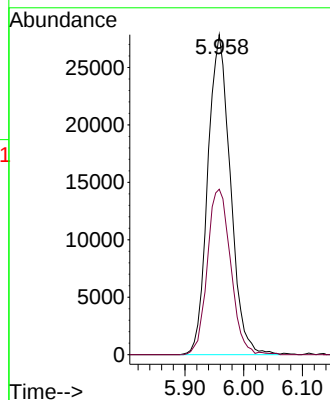
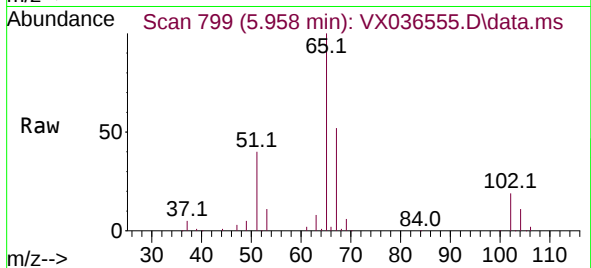
002-35TH-AVE(JUNE)DL

Tgt Ion: 65 Resp: 74334

Ion Ratio Lower Upper

65 100

67 53.1 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX036555.D

Acq: 14 Jul 2023 11:48

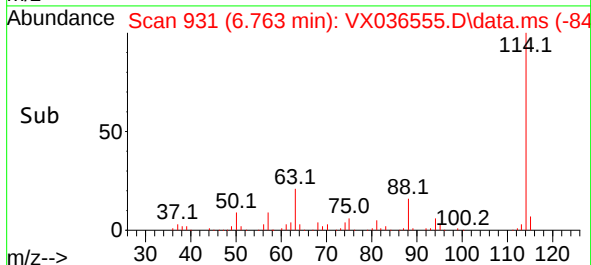
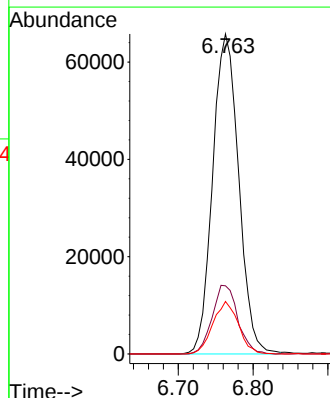
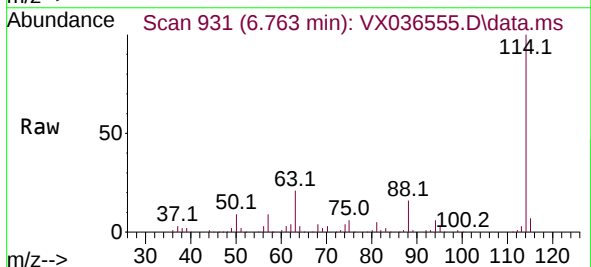
Tgt Ion: 114 Resp: 159501

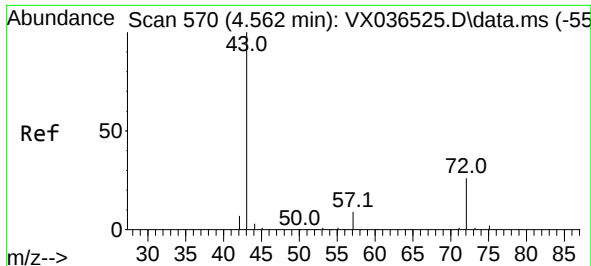
Ion Ratio Lower Upper

114 100

63 21.1 16.6 24.8

88 16.1 12.9 19.3

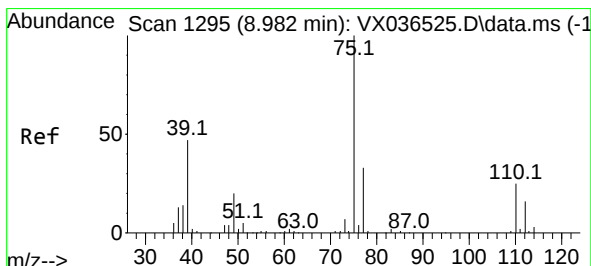
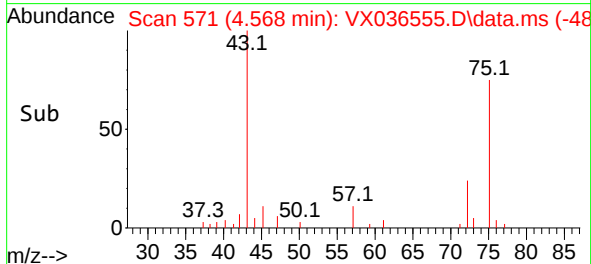
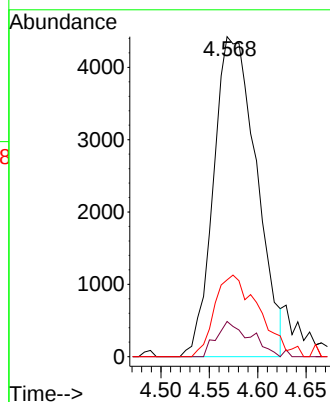
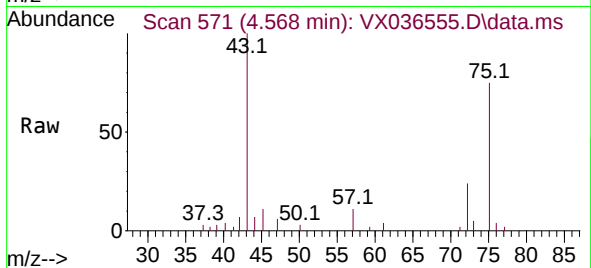




#30
2-Butanone
Concen: 8.983 ug/l
RT: 4.568 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

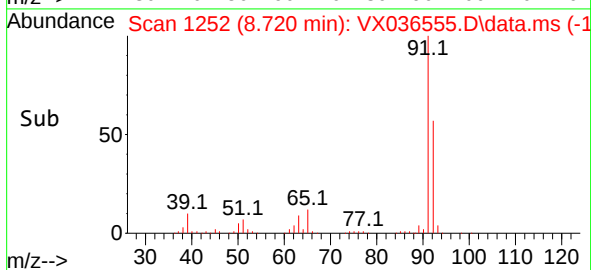
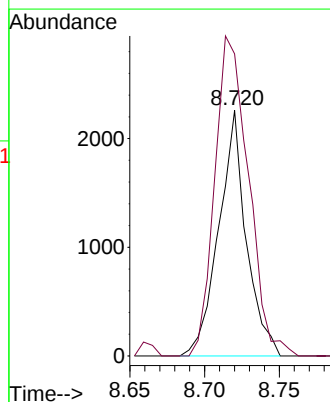
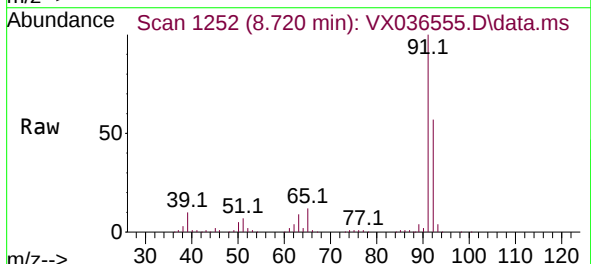
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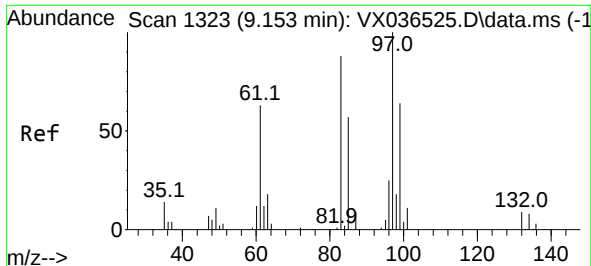
Tgt Ion: 43 Resp: 13604
Ion Ratio Lower Upper
43 100
57 6.3 6.4 9.6#
72 17.2 21.6 32.4#



#48
t-1,3-Dichloropropene
Concen: 1.000 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.262 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

Tgt Ion: 75 Resp: 2898
Ion Ratio Lower Upper
75 100
77 123.0 26.8 40.2#





#50

1,1,2-Trichloroethane

Concen: 0.519 ug/l

RT: 8.848 min Scan# 1639

Delta R.T. -0.305 min

Lab File: VX036555.D

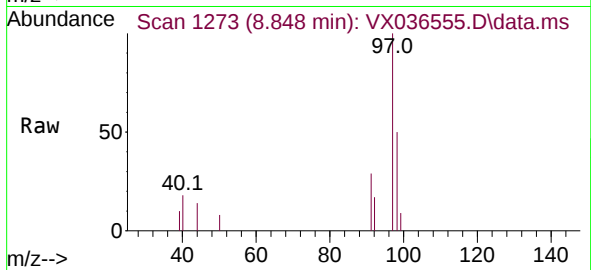
Acq: 14 Jul 2023 11:48

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)DL



Tgt Ion: 97 Resp: 1026

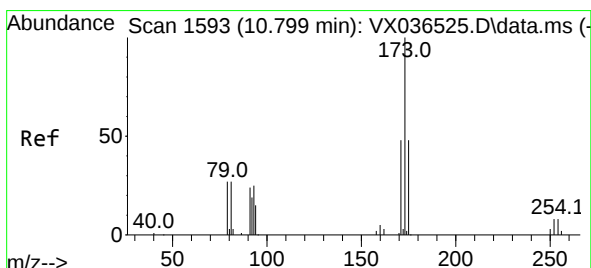
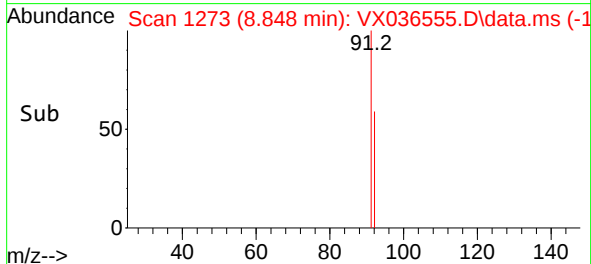
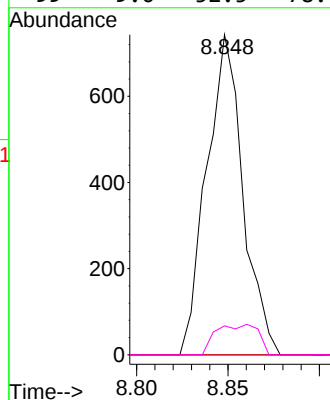
Ion Ratio Lower Upper

97 100

83 0.0 70.0 105.0#

85 0.0 46.1 69.1#

99 9.0 52.5 78.7#



#56

Bromoform

Concen: 0.441 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.280 min

Lab File: VX036555.D

Acq: 14 Jul 2023 11:48

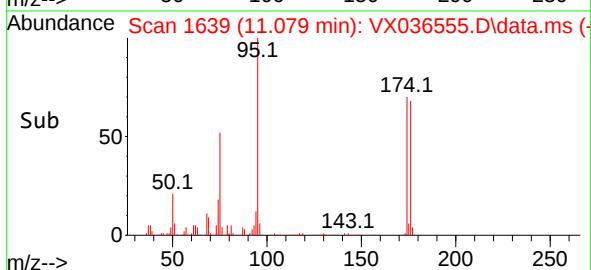
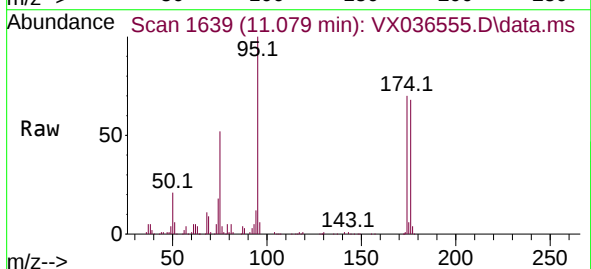
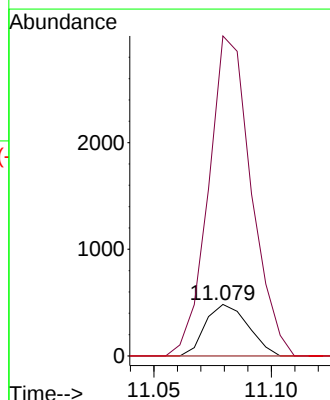
Tgt Ion:173 Resp: 612

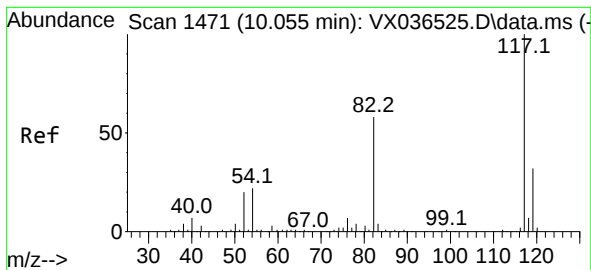
Ion Ratio Lower Upper

173 100

175 621.2 38.1 57.1#

254 0.0 6.7 10.1#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX036555.D

Acq: 14 Jul 2023 11:48

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)DL

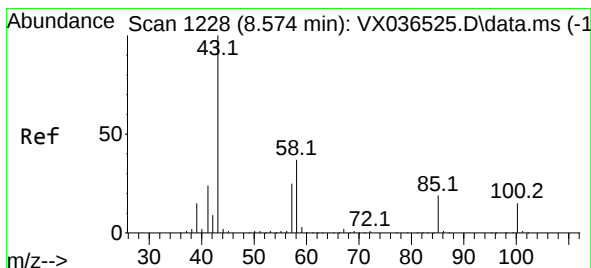
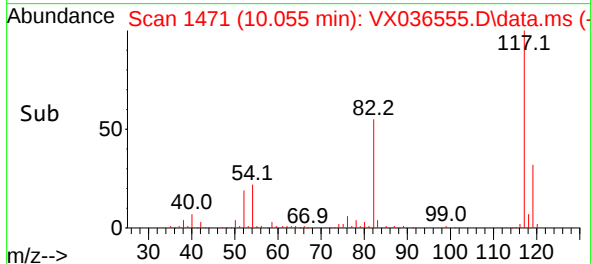
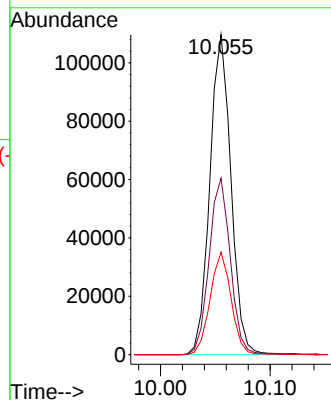
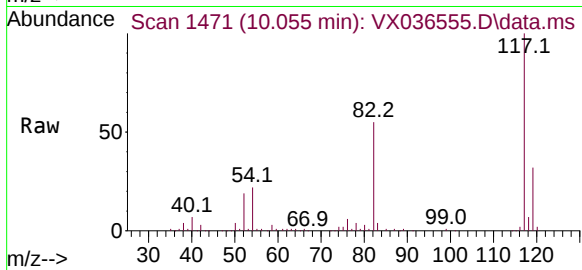
Tgt Ion:117 Resp: 146919

Ion Ratio Lower Upper

117 100

82 55.4 44.7 67.1

119 31.9 25.6 38.4



#58

4-Methyl-2-Pentanone

Concen: 1.005 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX036555.D

Acq: 14 Jul 2023 11:48

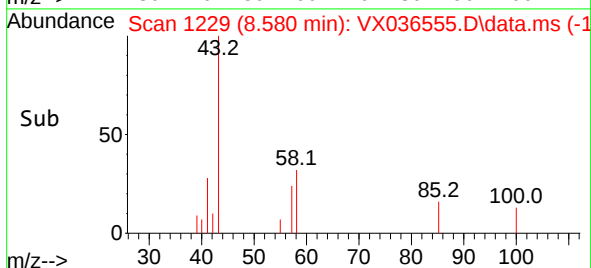
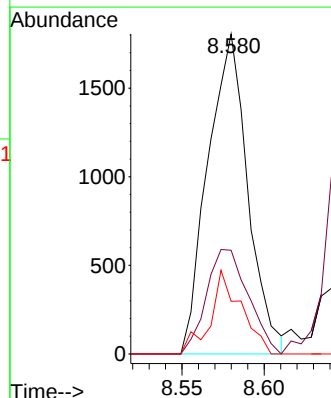
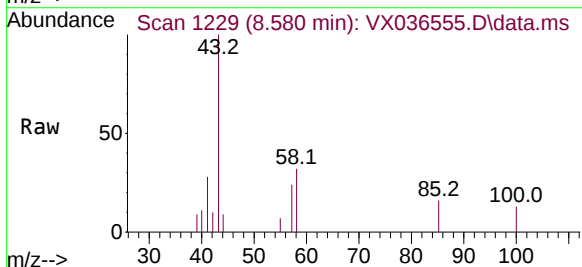
Tgt Ion: 43 Resp: 3052

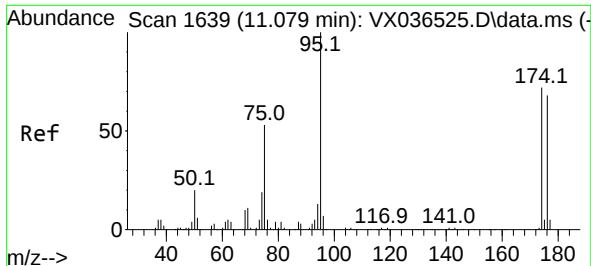
Ion Ratio Lower Upper

43 100

58 34.2 30.9 46.3

85 17.7 14.4 21.6

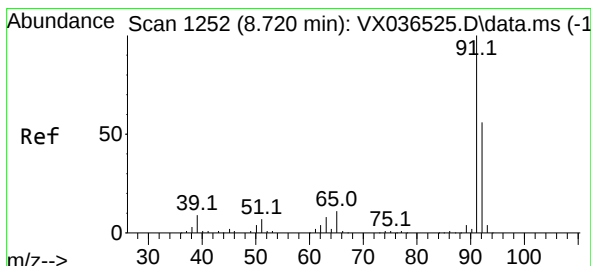
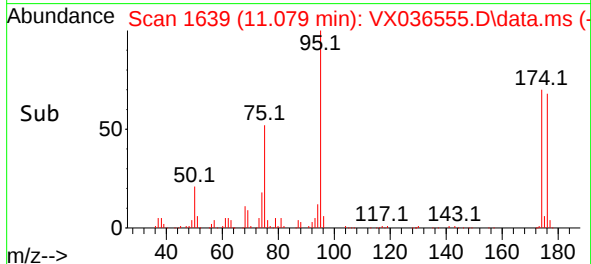
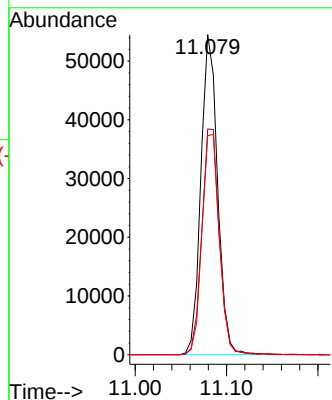
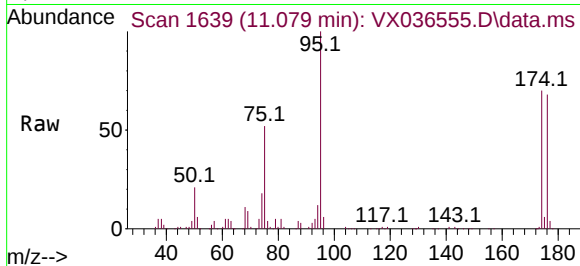




#60
4-Bromofluorobenzene
Concen: 29.002 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

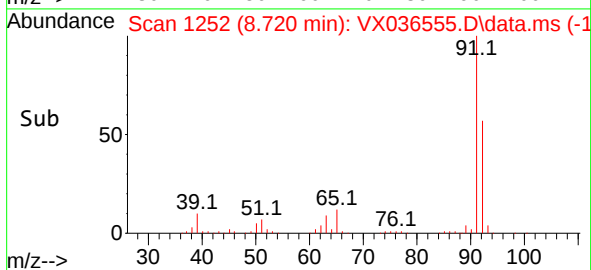
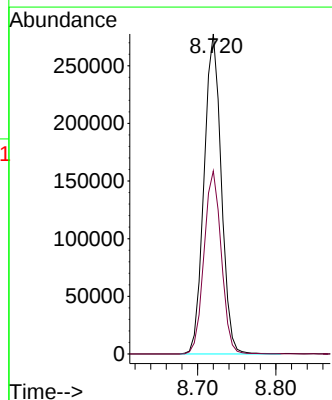
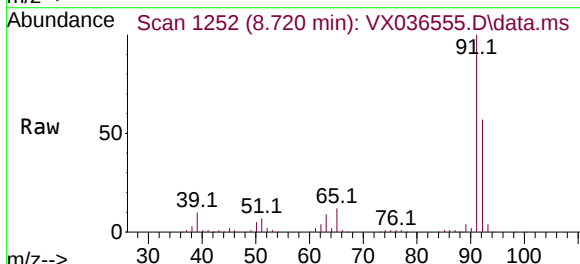
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)DL

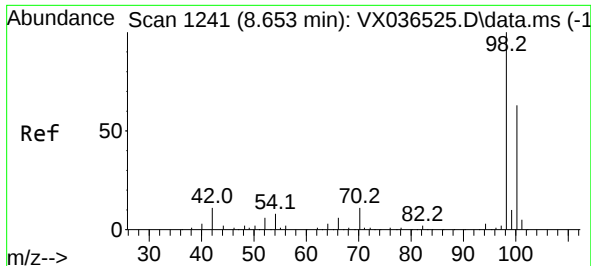
Tgt Ion: 95 Resp: 69117
Ion Ratio Lower Upper
95 100
174 73.5 60.5 90.7
176 71.5 58.2 87.4



#62
Toluene
Concen: 51.346 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

Tgt Ion: 91 Resp: 423258
Ion Ratio Lower Upper
91 100
92 57.1 44.9 67.3

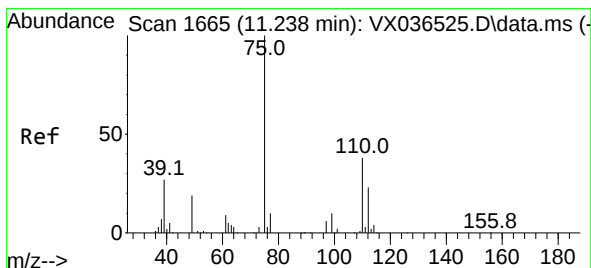
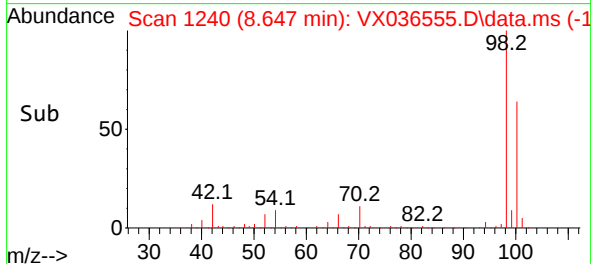
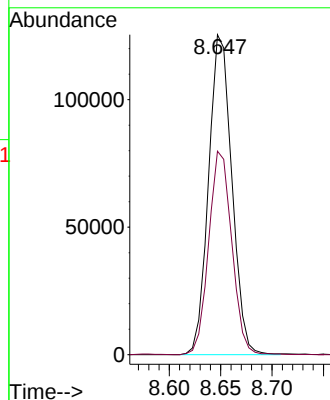
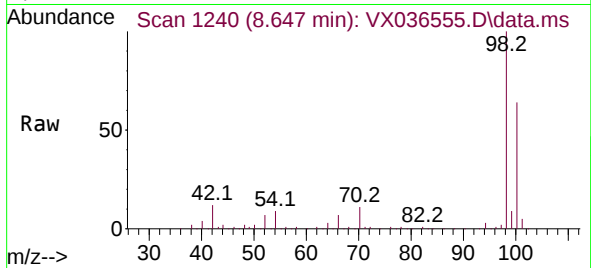




#63
Toluene-d8
Concen: 29.198 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

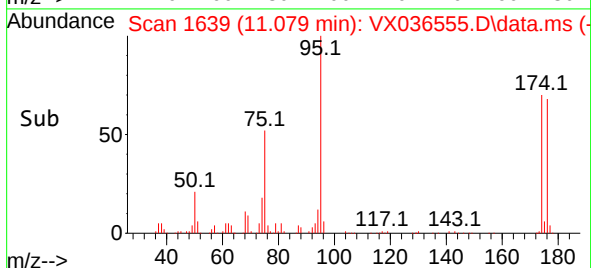
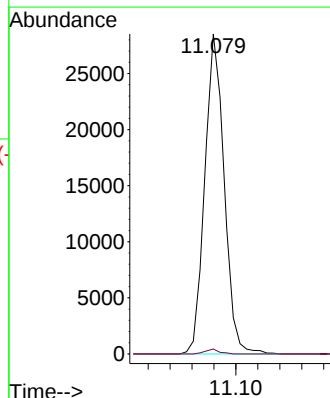
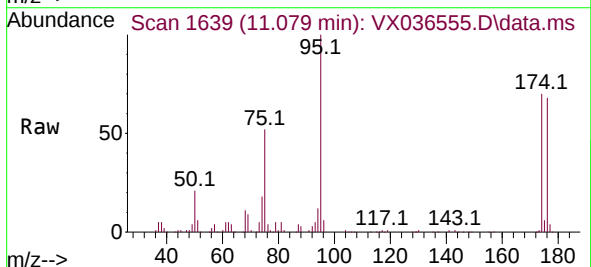
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)DL

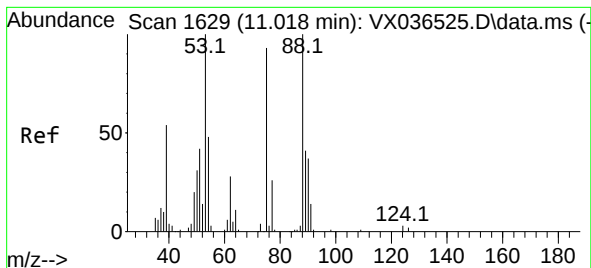
Tgt Ion: 98 Resp: 197397
Ion Ratio Lower Upper
98 100
100 63.1 51.6 77.4



#72
1,2,3-Trichloropropane
Concen: 12.001 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX036555.D
Acq: 14 Jul 2023 11:48

Tgt Ion: 75 Resp: 35042
Ion Ratio Lower Upper
75 100
77 1.1 0.0 77.2

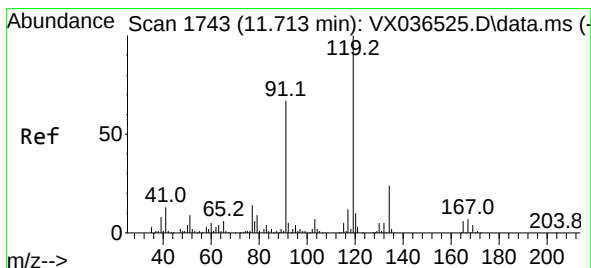
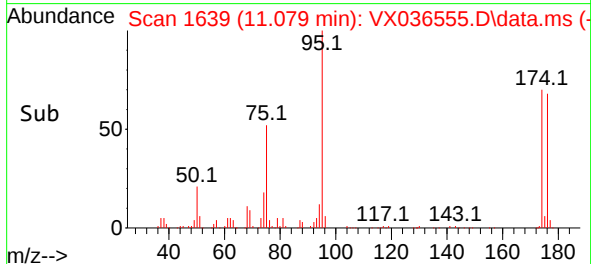
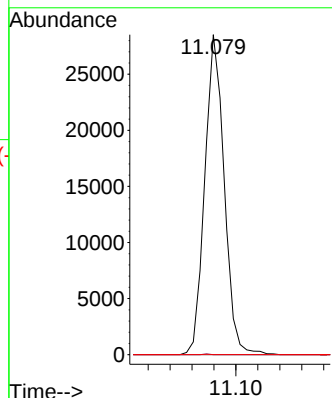
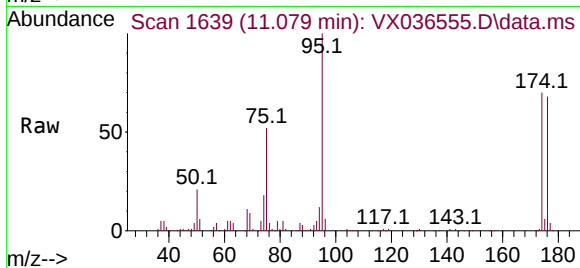




#77
 t-1,4-Dichloro-2-butene
 Concen: 36.546 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX036555.D
 Acq: 14 Jul 2023 11:48

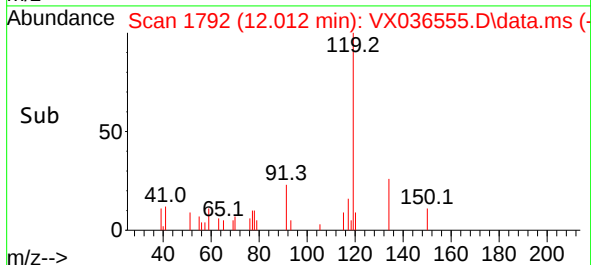
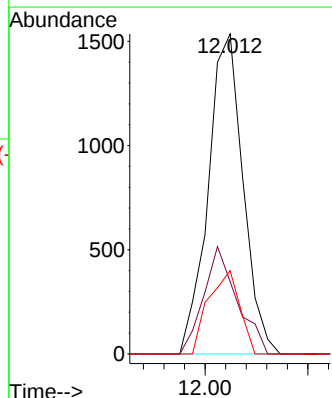
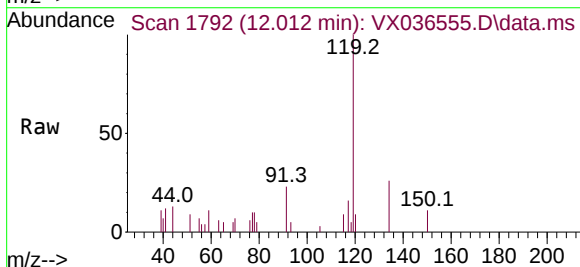
Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(JUNE)DL

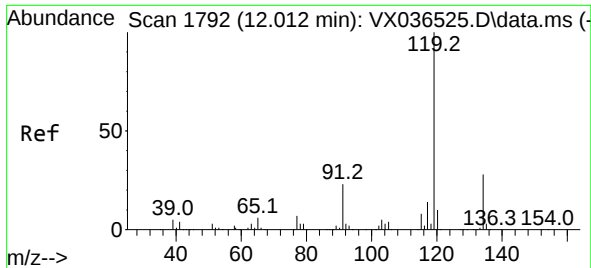
Tgt Ion: 75 Resp: 35042
 Ion Ratio Lower Upper
 75 100
 53 0.0 53.9 161.7#
 89 0.0 22.1 66.1#



#79
 tert-butylbenzene
 Concen: 0.257 ug/l
 RT: 12.012 min Scan# 1792
 Delta R.T. 0.299 min
 Lab File: VX036555.D
 Acq: 14 Jul 2023 11:48

Tgt Ion: 119 Resp: 1808
 Ion Ratio Lower Upper
 119 100
 91 32.2 0.0 124.4
 134 23.2 0.0 47.2





#82
 p-Isopropyltoluene
 Concen: 0.245 ug/l
 RT: 12.012 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX036555.D
 Acq: 14 Jul 2023 11:48

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(JUNE)DL

Tgt Ion:	119	Resp:	1808
Ion	Ratio	Lower	Upper
119	100		
134	23.2	0.0	53.2
91	32.2	0.0	49.4

