

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU012425\
 Data File : VU062995.D
 Acq On : 24 Jan 2025 16:03
 Operator : MD/SY
 Sample : Q1174-07
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jan 24 19:07:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR010225WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Jan 24 19:02:27 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.386	114	114627	5.000	ug/L	0.15
28) Chlorobenzene-d5	9.444	117	104320	5.000	ug/L	0.04
58) 1,4-Dichlorobenzene-d4	11.811	152	48846	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.708	65	21909	3.451	ug/L	0.12
Spiked Amount	5.000	Range	40 - 130	Recovery	=	69.000%
7) Chloroethane-d5	2.068	69	14484	2.836	ug/L	0.16
Spiked Amount	5.000	Range	65 - 130	Recovery	=	56.800%#
11) 1,1-Dichloroethene-d2	2.747	65	10174	3.094	ug/L	0.19
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.800%
20) 2-Butanone-d5	4.859	46	18994	14.639	ug/L	0.24
Spiked Amount	50.000	Range	40 - 130	Recovery	=	29.280%#
24) Chloroform-d	5.216	84	46188	2.957	ug/L	0.17
Spiked Amount	5.000	Range	70 - 125	Recovery	=	59.200%#
26) 1,2-Dichloroethane-d4	5.882	65	34267	4.045	ug/L	0.19
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.800%
32) Benzene-d6	5.901	84	114980	4.509	ug/L	0.19
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.200%
36) 1,2-Dichloropropane-d6	6.808	67	36348	5.141	ug/L	0.13
Spiked Amount	5.000	Range	60 - 140	Recovery	=	102.800%
41) Toluene-d8	7.962	98	107001	4.307	ug/L	0.07
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.200%
43) trans-1,3-Dichloroprop...	8.232	79	14089	3.998	ug/L	0.06
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.000%
46) 2-Hexanone-d5	8.679	63	46429	41.887	ug/L	0.05
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.780%
56) 1,1,2,2-Tetrachloroeth...	10.759	84	26726	4.514	ug/L	0.02
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.200%
66) 1,2-Dichlorobenzene-d4	12.190	152	36140	4.447	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.715	62	34194	4.144	ug/L	95
8) Chloroethane	2.091	64	6996	1.411	ug/L	99
13) Acetone	2.563	43	4920	4.787	ug/L	53
14) Carbon disulfide	2.978	76	35309	1.554	ug/L	97
15) Methyl Acetate	2.914	43	21626	9.717	ug/L #	48
18) trans-1,2-Dichloroethene	3.551	96	922	0.121	ug/L	96
19) 1,1-Dichloroethane	4.075	63	793047	58.182	ug/L	96
22) cis-1,2-Dichloroethene	4.843	96	51353	6.186	ug/L	97
33) Benzene	5.949	78	25182	0.840	ug/L	100
35) Methylcyclohexane	6.804	83	9052	0.719	ug/L #	21
37) 1,2-Dichloropropane	6.808	63	4392	0.621	ug/L #	88
40) 4-Methyl-2-pentanone	7.862	43	35497	10.748	ug/L #	93
42) Toluene	8.029	91	77368	2.356	ug/L	99
45) 1,1,2-Trichloroethane	8.328	97	898	0.156	ug/L #	14
52) Ethylbenzene	9.592	91	48804	1.309	ug/L	96
53) m,p-Xylene	9.711	106	56449	4.050	ug/L	98
54) o-Xylene	10.116	106	17674	1.324	ug/L	99
55) Styrene	10.113	104	1670	0.075	ug/L #	1
60) Isopropylbenzene	11.007	105	17159	0.510	ug/L	96

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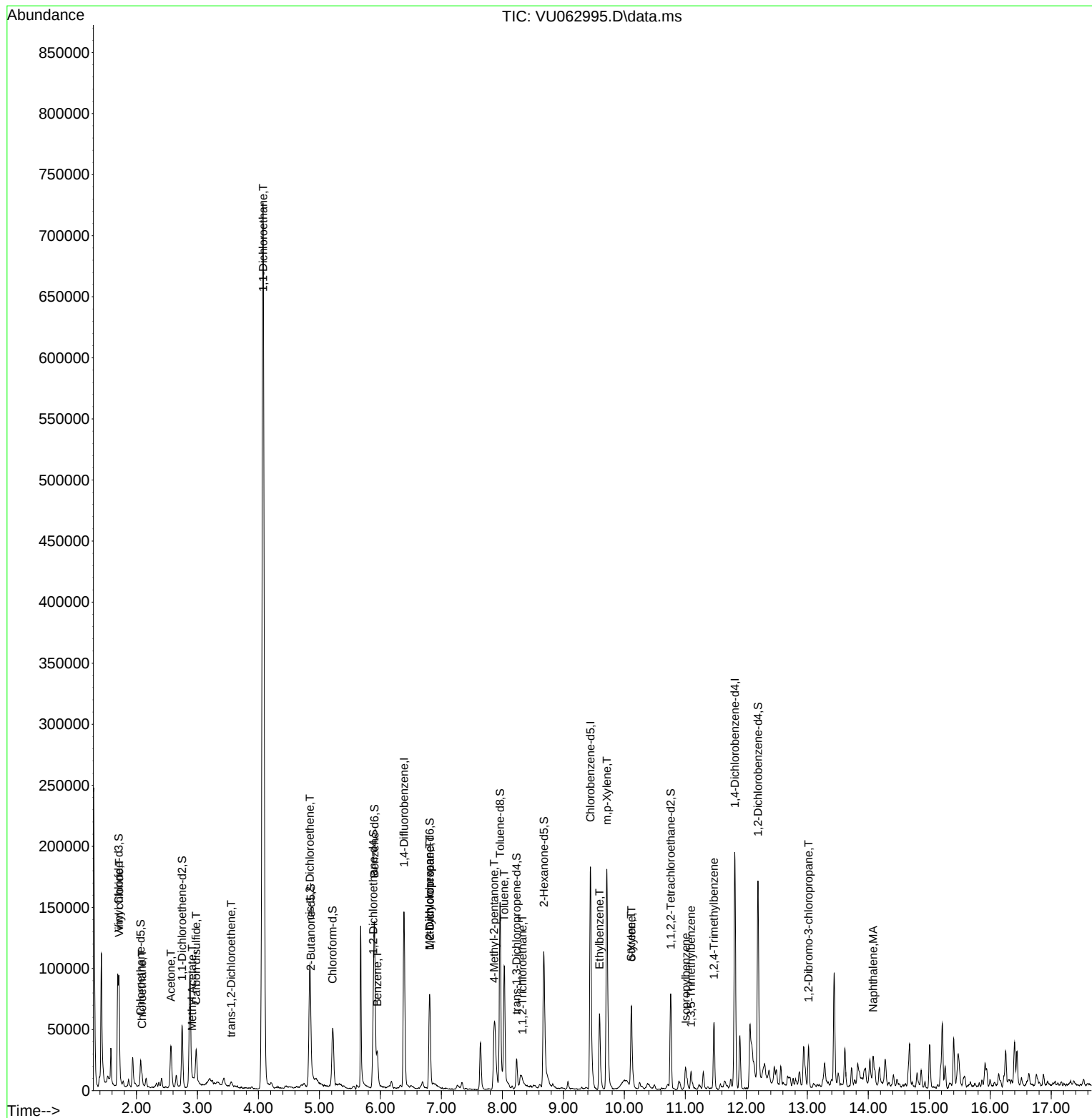
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
62) 1,3,5-Trimethylbenzene	11.094	105	8217	0.287	ug/L	98
63) 1,2,4-Trimethylbenzene	11.467	105	31691	1.145	ug/L	98
68) 1,2-Dibromo-3-chloropr...	13.020	75	157	0.140	ug/L #	8
71) Naphthalene	14.081	128	17993	1.299	ug/L #	95

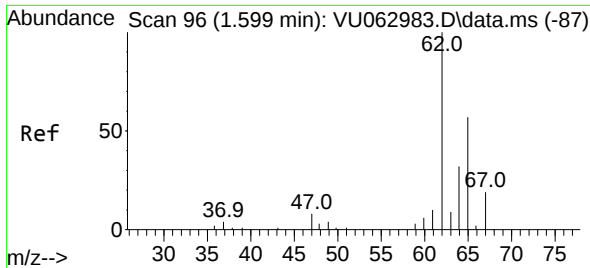
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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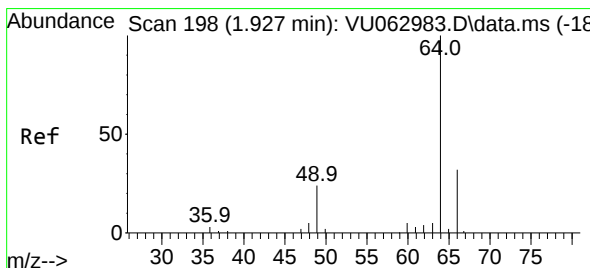
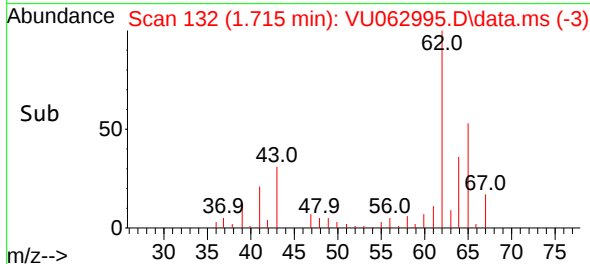
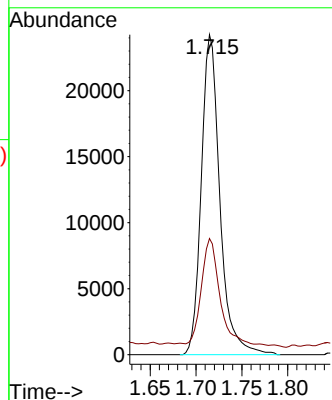
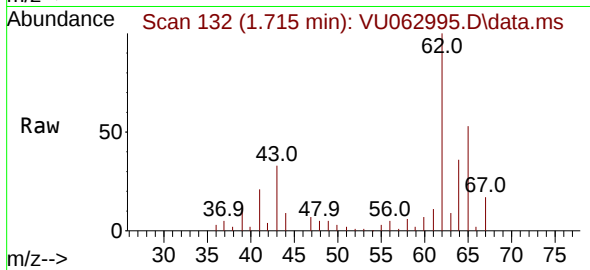




#5
 Vinyl chloride
 Concen: 4.144 ug/L
 RT: 1.715 min Scan# 11
 Delta R.T. 0.116 min
 Lab File: VU062995.D
 Acq: 24 Jan 2025 16:03

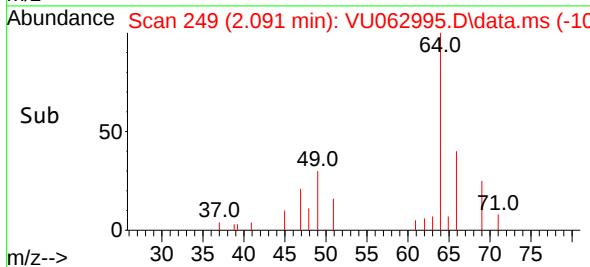
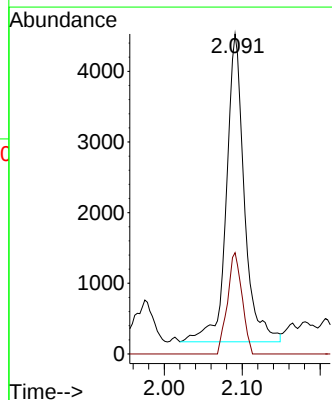
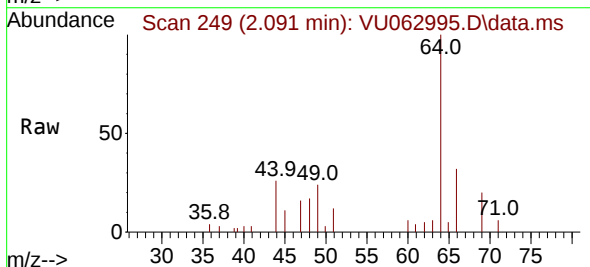
Instrument :
 MSVOA_U
 ClientSampleId :

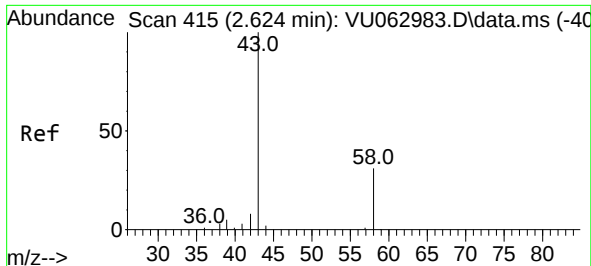
Tgt Ion: 62 Resp: 34194
 Ion Ratio Lower Upper
 62 100
 64 36.3 23.4 43.4



#8
 Chloroethane
 Concen: 1.411 ug/L
 RT: 2.091 min Scan# 249
 Delta R.T. 0.164 min
 Lab File: VU062995.D
 Acq: 24 Jan 2025 16:03

Tgt Ion: 64 Resp: 6996
 Ion Ratio Lower Upper
 64 100
 66 31.7 21.6 40.2





#13

Acetone

Concen: 4.787 ug/L

RT: 2.563 min Scan# 396

Delta R.T. -0.061 min

Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

Instrument :

MSVOA_U

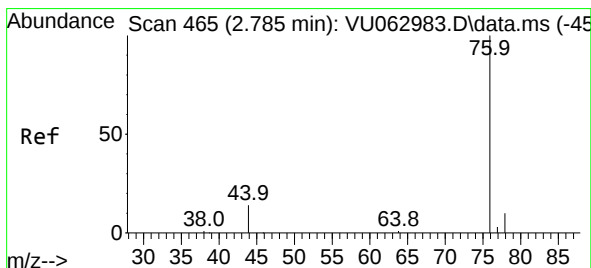
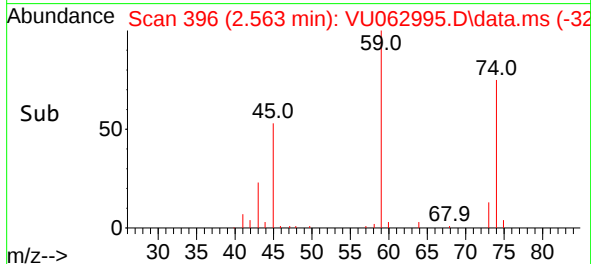
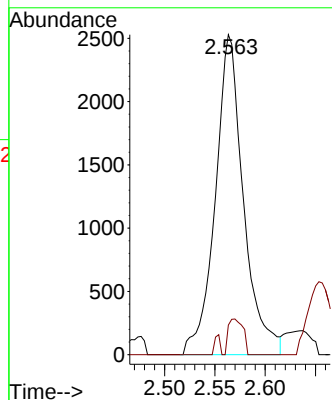
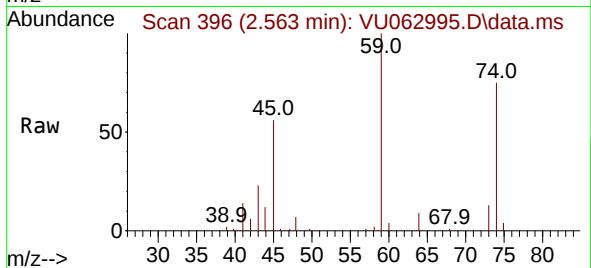
ClientSampleId :

Tgt Ion: 43 Resp: 4920

Ion Ratio Lower Upper

43 100

58 5.8 0.0 64.4



#14

Carbon disulfide

Concen: 1.554 ug/L

RT: 2.978 min Scan# 525

Delta R.T. 0.193 min

Lab File: VU062995.D

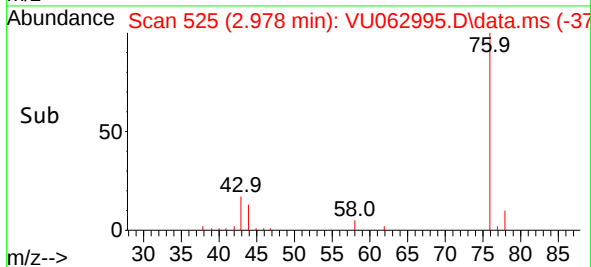
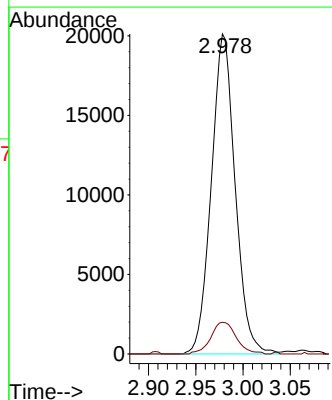
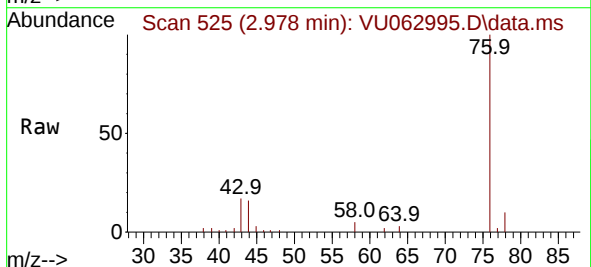
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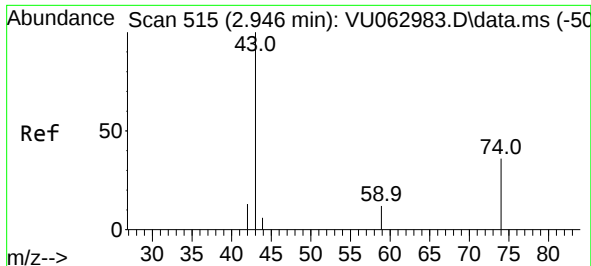
Tgt Ion: 76 Resp: 35309

Ion Ratio Lower Upper

76 100

78 9.9 7.0 10.6

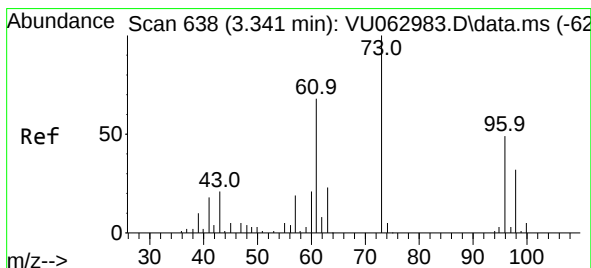
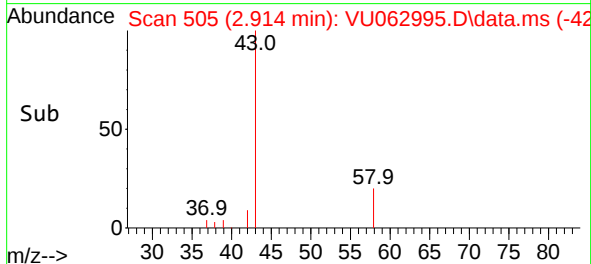
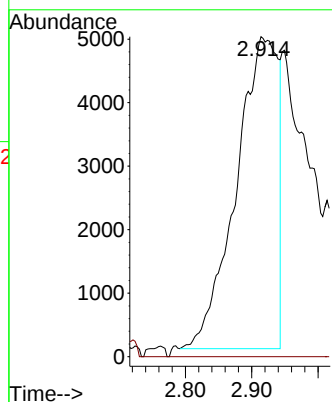
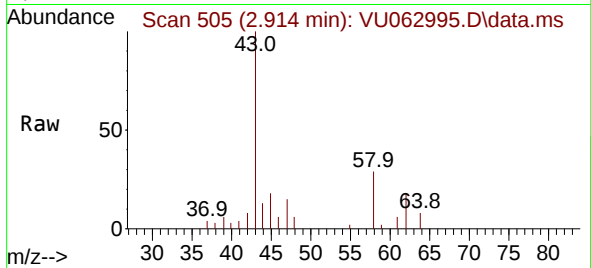




#15
Methyl Acetate
Concen: 9.717 ug/L
RT: 2.914 min Scan# 505
Delta R.T. -0.032 min
Lab File: VU062995.D
Acq: 24 Jan 2025 16:03

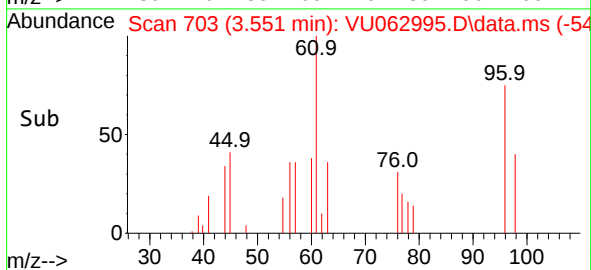
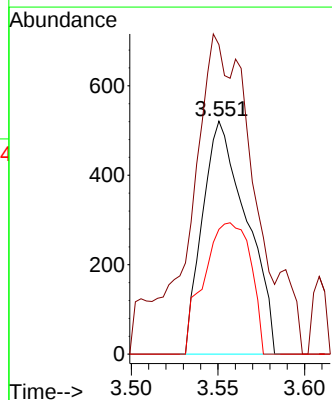
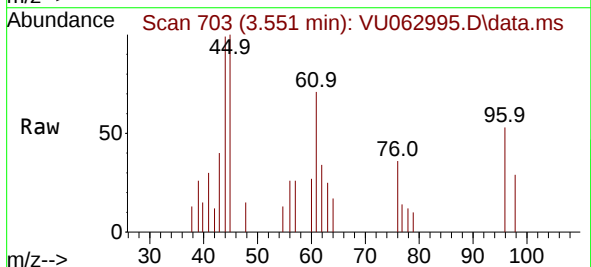
Instrument :
MSVOA_U
ClientSampleId :

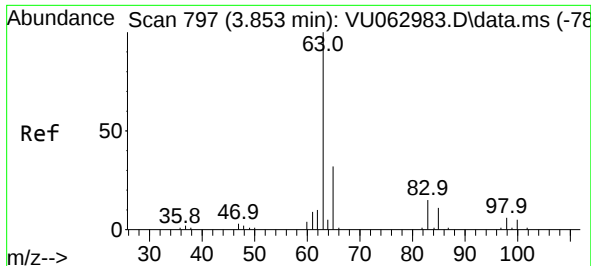
Tgt Ion: 43 Resp: 21626
Ion Ratio Lower Upper
43 100
74 2.0 24.4 36.6#



#18
trans-1,2-Dichloroethene
Concen: 0.121 ug/L
RT: 3.551 min Scan# 703
Delta R.T. 0.209 min
Lab File: VU062995.D
Acq: 24 Jan 2025 16:03

Tgt Ion: 96 Resp: 922
Ion Ratio Lower Upper
96 100
61 132.8 94.4 175.2
98 53.6 42.8 79.4





#19

1,1-Dichloroethane

Concen: 58.182 ug/L

RT: 4.075 min Scan# 80

Delta R.T. 0.222 min

Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

Instrument :

MSVOA_U

ClientSampleId :

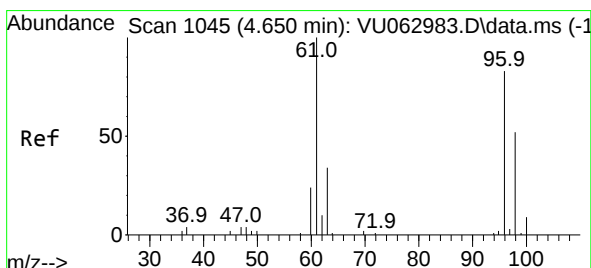
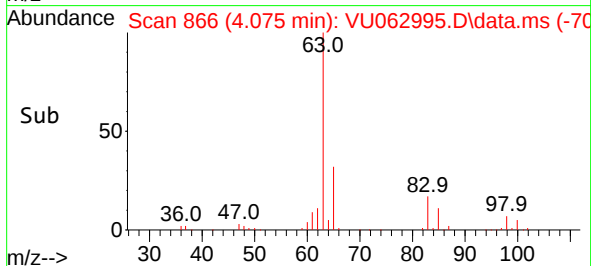
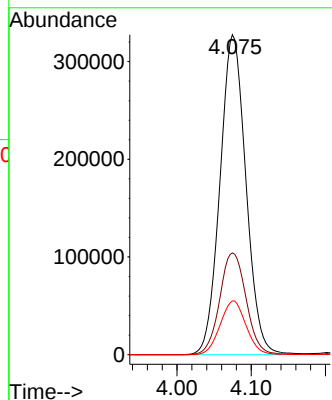
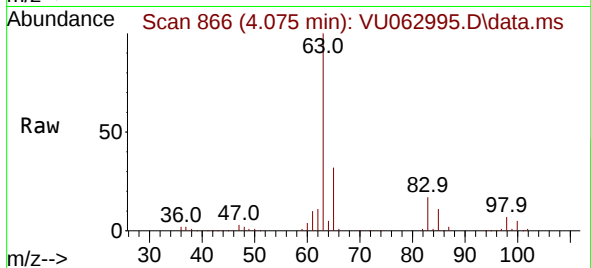
Tgt Ion: 63 Resp: 793047

Ion Ratio Lower Upper

63 100

65 31.8 20.7 38.5

83 16.8 10.5 19.5



#22

cis-1,2-Dichloroethene

Concen: 6.186 ug/L

RT: 4.843 min Scan# 1105

Delta R.T. 0.193 min

Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

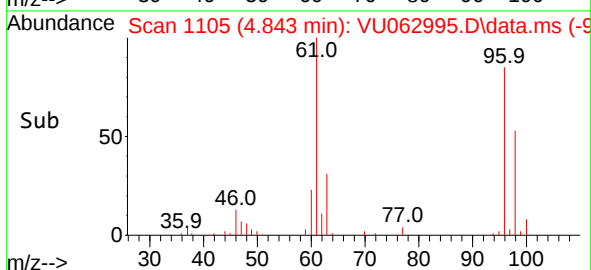
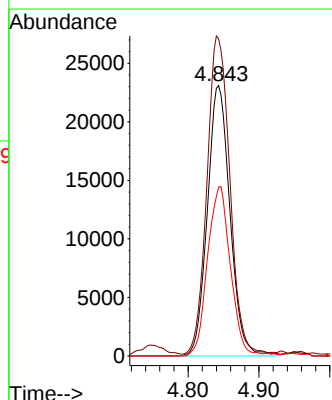
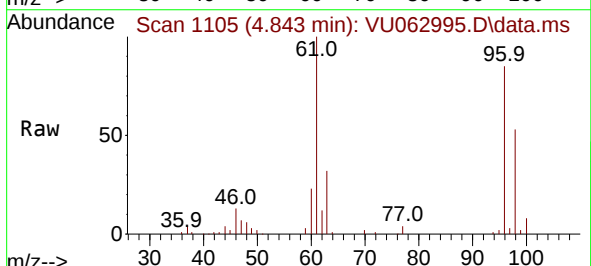
Tgt Ion: 96 Resp: 51353

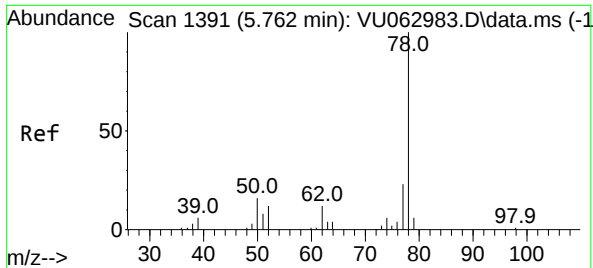
Ion Ratio Lower Upper

96 100

61 117.3 84.8 157.6

98 62.5 43.1 80.1

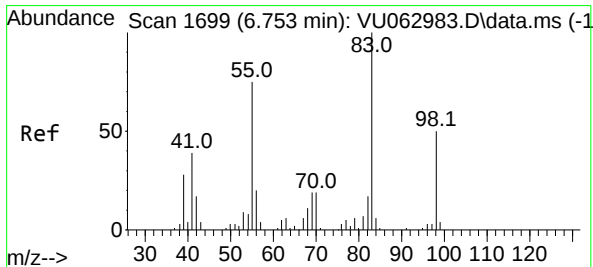
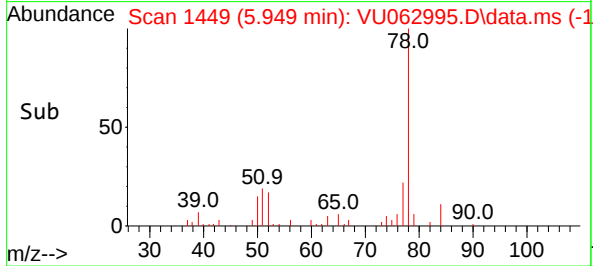
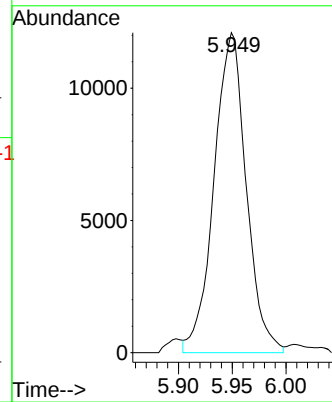
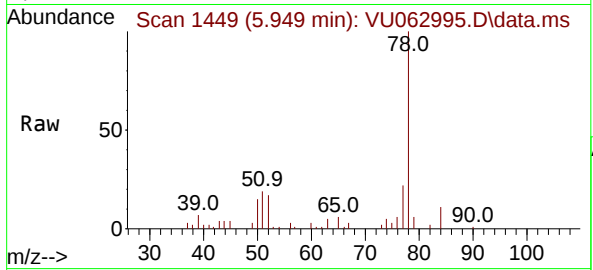




#33
Benzene
Concen: 0.840 ug/L
RT: 5.949 min Scan# 14
Delta R.T. 0.187 min
Lab File: VU062995.D
Acq: 24 Jan 2025 16:03

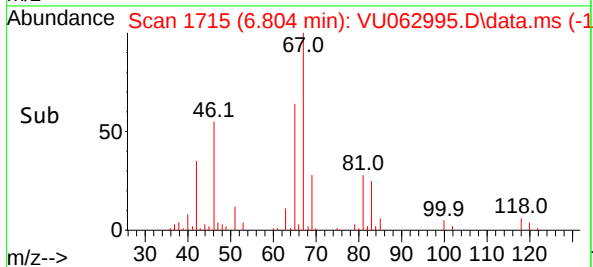
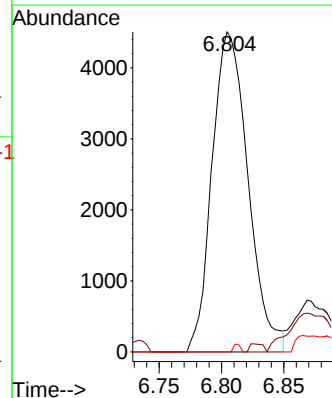
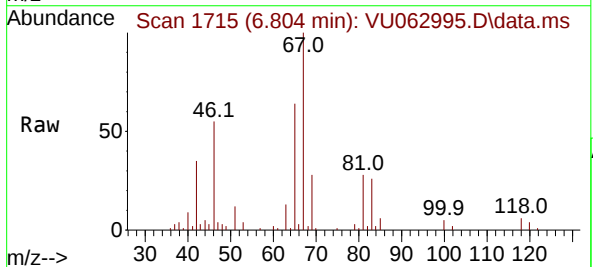
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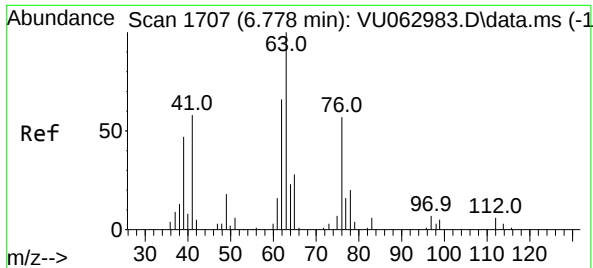
Tgt Ion: 78 Resp: 25182



#35
Methylcyclohexane
Concen: 0.719 ug/L
RT: 6.804 min Scan# 1715
Delta R.T. 0.052 min
Lab File: VU062995.D
Acq: 24 Jan 2025 16:03

Tgt Ion: 83 Resp: 9052
Ion Ratio Lower Upper
83 100
55 0.9 57.2 85.8#
98 0.5 36.6 55.0#

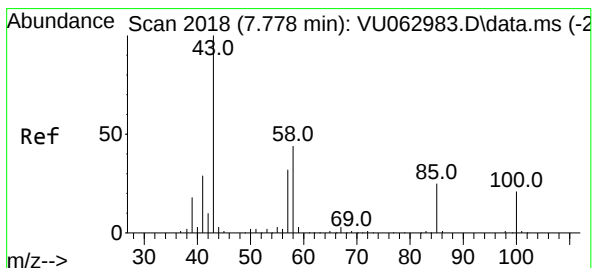
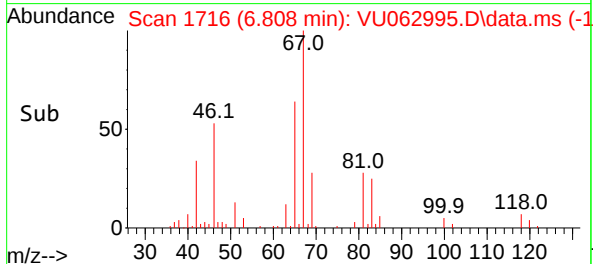
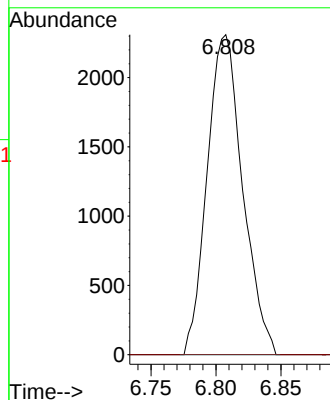
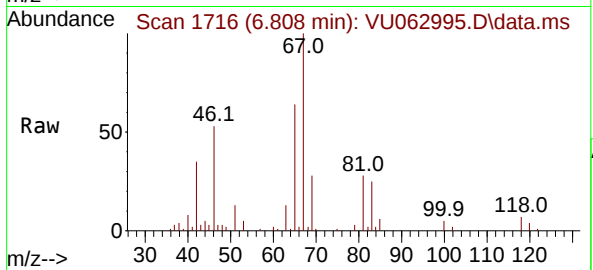




#37
1,2-Dichloropropane
Concen: 0.621 ug/L
RT: 6.808 min Scan# 11
Delta R.T. 0.029 min
Lab File: VU062995.D
Acq: 24 Jan 2025 16:03

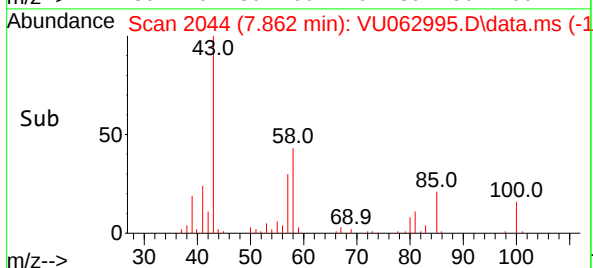
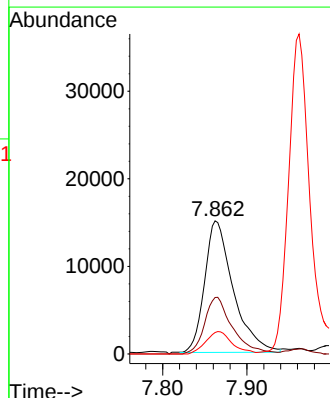
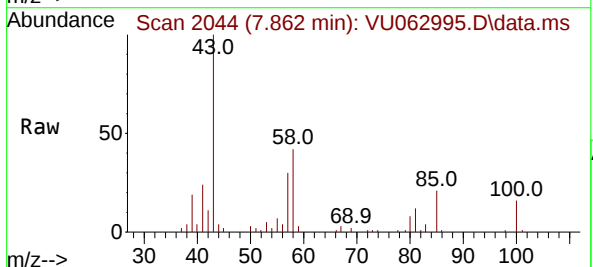
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ClientSampleId :

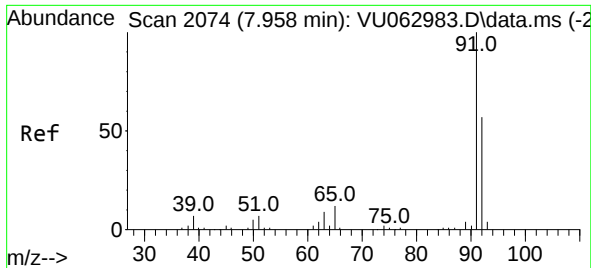
Tgt Ion: 63 Resp: 4392
Ion Ratio Lower Upper
63 100
112 1.0 3.8 5.8#



#40
4-Methyl-2-pentanone
Concen: 10.748 ug/L
RT: 7.862 min Scan# 2044
Delta R.T. 0.084 min
Lab File: VU062995.D
Acq: 24 Jan 2025 16:03

Tgt Ion: 43 Resp: 35497
Ion Ratio Lower Upper
43 100
58 41.9 35.8 53.8
100 15.7 16.8 25.2#





#42

Toluene

Concen: 2.356 ug/L

RT: 8.029 min Scan# 2074

Delta R.T. 0.071 min

Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

Instrument :

MSVOA_U

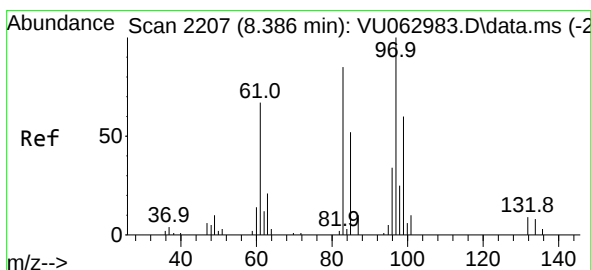
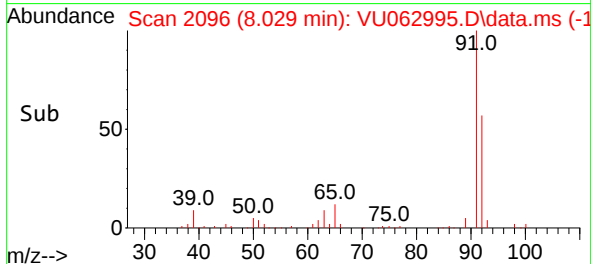
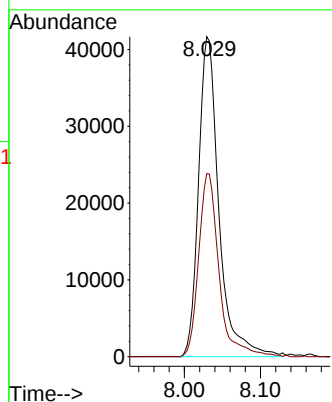
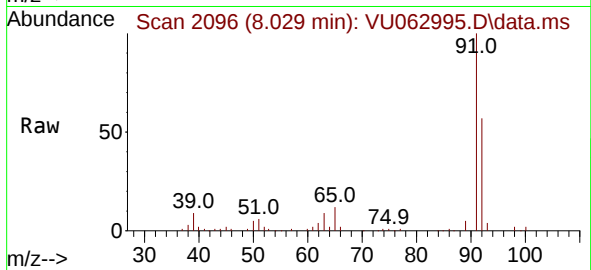
ClientSampleId :

Tgt Ion: 91 Resp: 77368

Ion Ratio Lower Upper

91 100

92 57.2 40.4 75.0



#45

1,1,2-Trichloroethane

Concen: 0.156 ug/L

RT: 8.328 min Scan# 2189

Delta R.T. -0.058 min

Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

Tgt Ion: 97 Resp: 898

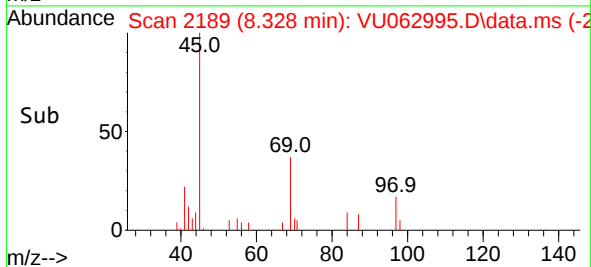
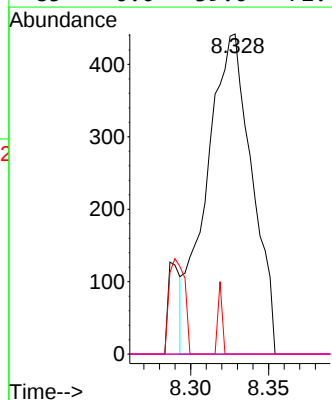
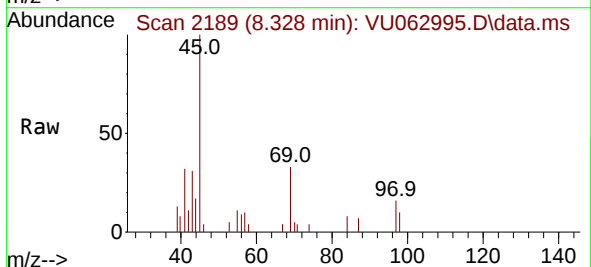
Ion Ratio Lower Upper

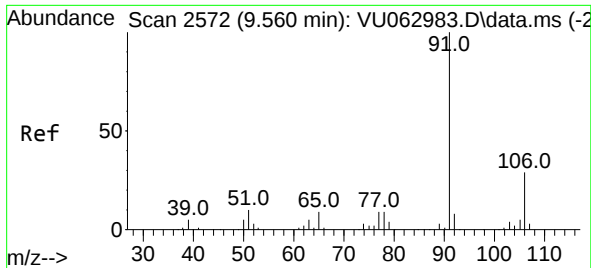
97 100

99 0.0 45.6 84.6#

83 0.0 63.0 117.0#

85 0.0 39.0 72.4#

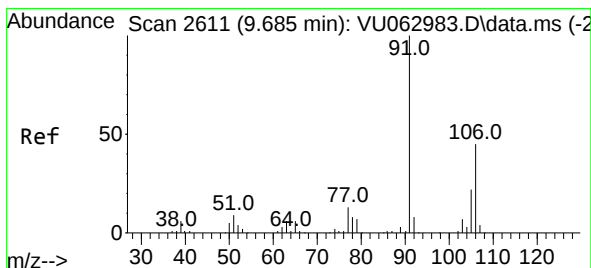
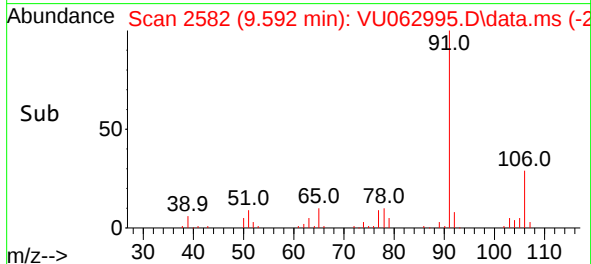
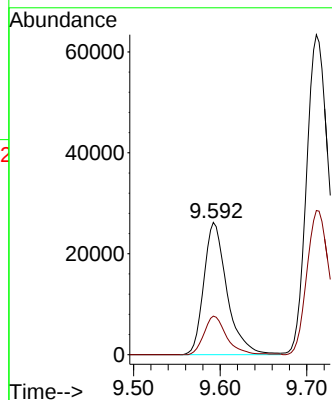
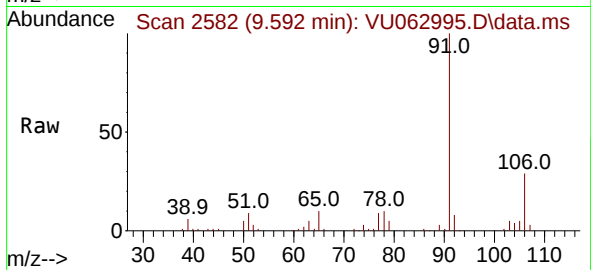




#52
Ethylbenzene
Concen: 1.309 ug/L
RT: 9.592 min Scan# 21
Delta R.T. 0.032 min
Lab File: VU062995.D
Acq: 24 Jan 2025 16:03

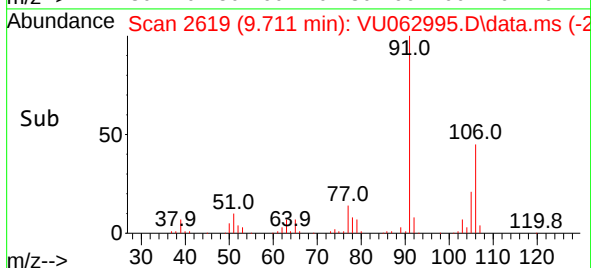
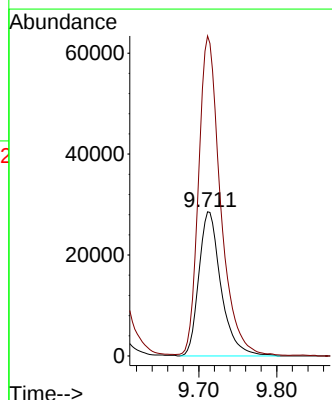
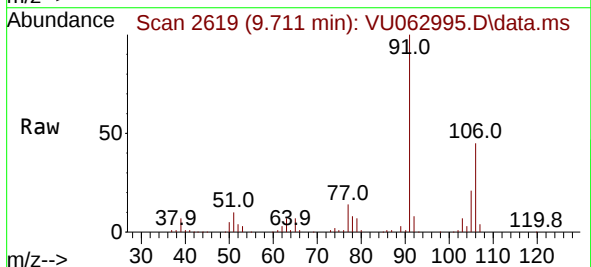
Instrument :
MSVOA_U
ClientSampleId :

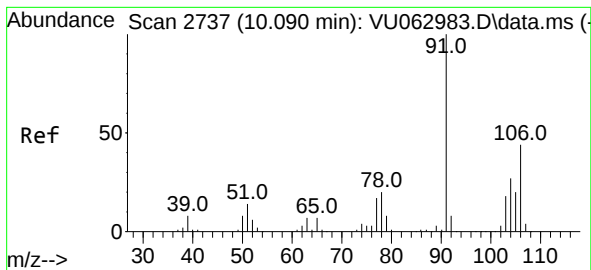
Tgt Ion: 91 Resp: 48804
Ion Ratio Lower Upper
91 100
106 29.2 21.9 40.7



#53
m,p-Xylene
Concen: 4.050 ug/L
RT: 9.711 min Scan# 2619
Delta R.T. 0.026 min
Lab File: VU062995.D
Acq: 24 Jan 2025 16:03

Tgt Ion:106 Resp: 56449
Ion Ratio Lower Upper
106 100
91 222.0 153.1 284.3





#54

o-Xylene

Concen: 1.324 ug/L

RT: 10.116 min Scan# 21

Delta R.T. 0.026 min

Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

Instrument :

MSVOA_U

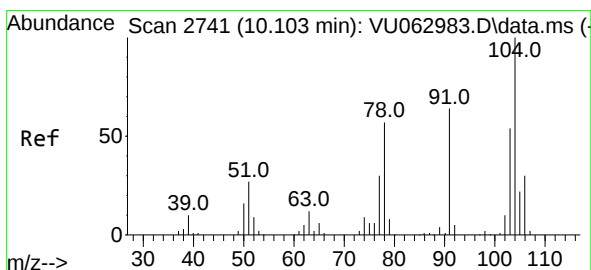
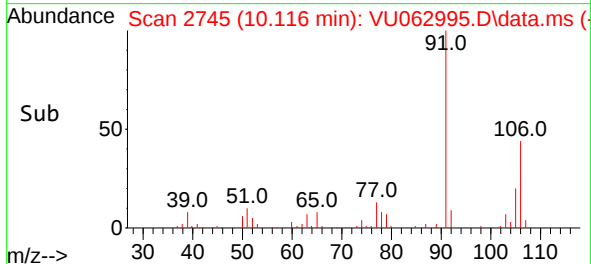
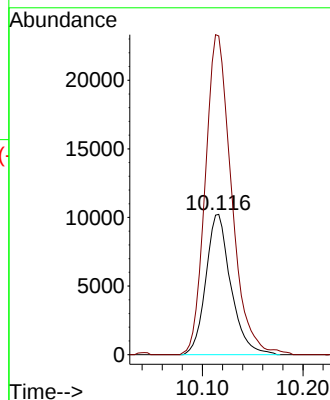
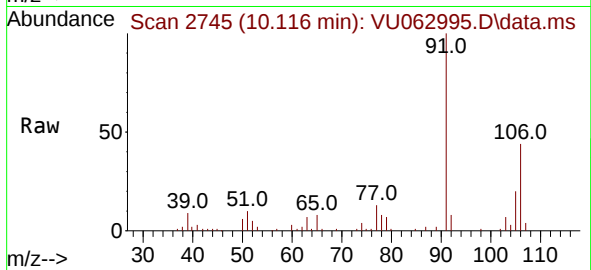
ClientSampleId :

Tgt Ion:106 Resp: 17674

Ion Ratio Lower Upper

106 100

91 227.2 160.4 297.8



#55

Styrene

Concen: 0.075 ug/L

RT: 10.113 min Scan# 2744

Delta R.T. 0.010 min

Lab File: VU062995.D

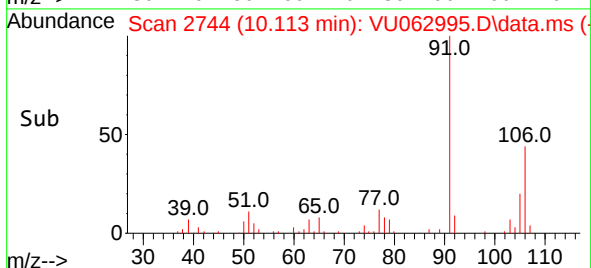
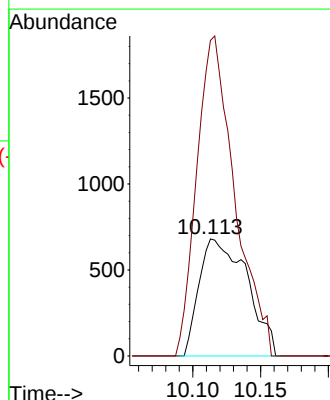
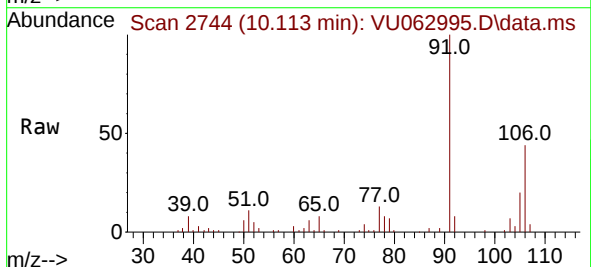
Acq: 24 Jan 2025 16:03

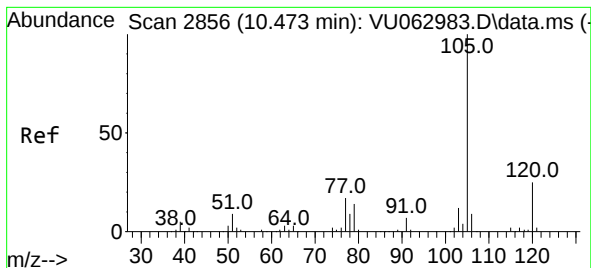
Tgt Ion:104 Resp: 1670

Ion Ratio Lower Upper

104 100

78 269.9 35.5 65.9#





#60

Isopropylbenzene

Concen: 0.510 ug/L

RT: 11.007 min Scan# 3022

Delta R.T. 0.534 min

Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

Instrument :

MSVOA_U

ClientSampleId :

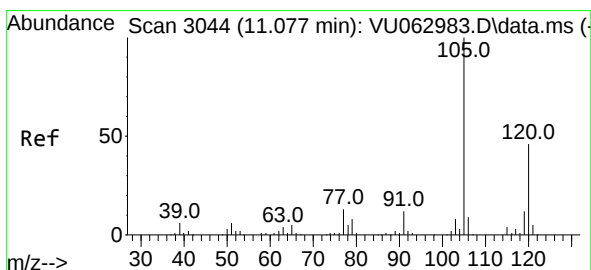
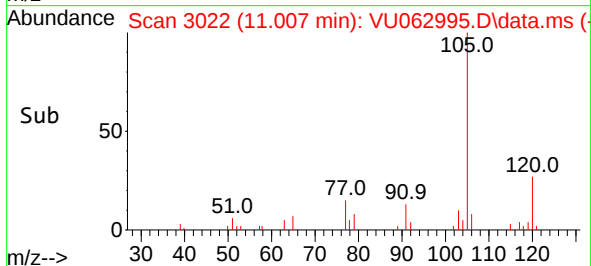
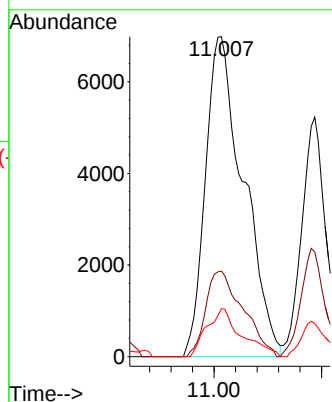
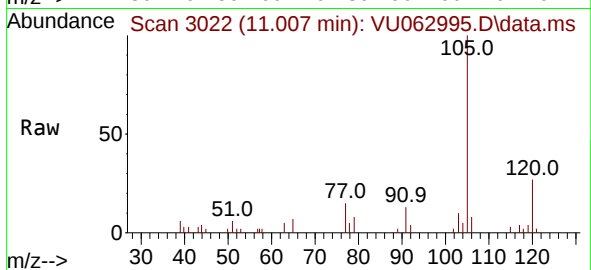
Tgt Ion:105 Resp: 17159

Ion Ratio Lower Upper

105 100

120 26.2 20.2 30.2

77 13.7 13.0 19.4



#62

1,3,5-Trimethylbenzene

Concen: 0.287 ug/L

RT: 11.094 min Scan# 3049

Delta R.T. 0.016 min

Lab File: VU062995.D

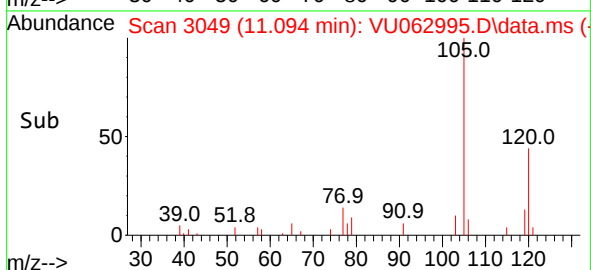
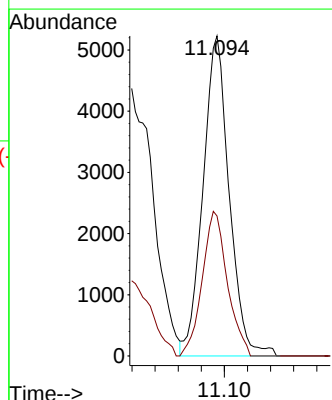
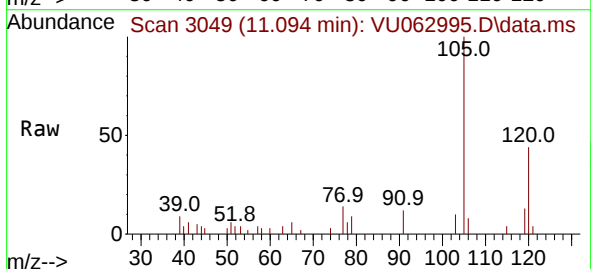
Acq: 24 Jan 2025 16:03

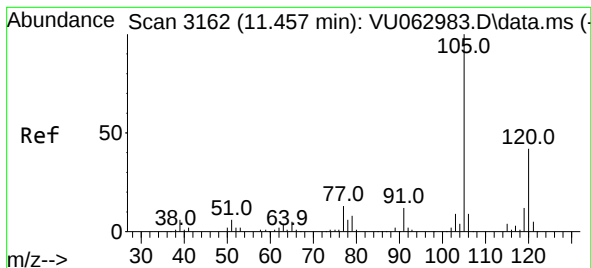
Tgt Ion:105 Resp: 8217

Ion Ratio Lower Upper

105 100

120 43.4 35.9 53.9





#63

1,2,4-Trimethylbenzene

Concen: 1.145 ug/L

RT: 11.467 min Scan# 3162

Delta R.T. 0.010 min

Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

Instrument :

MSVOA_U

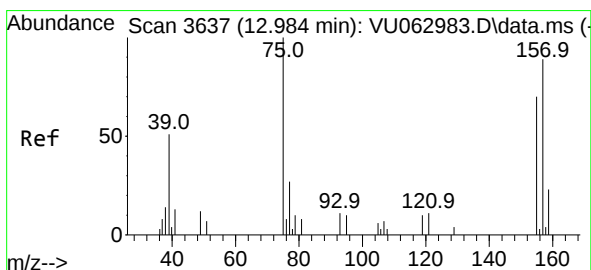
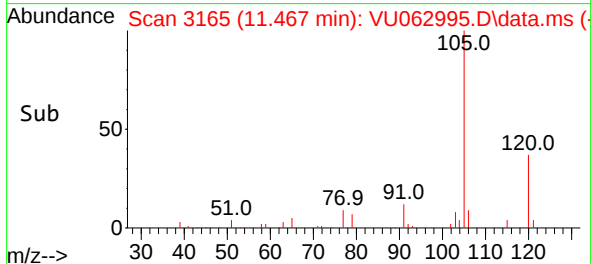
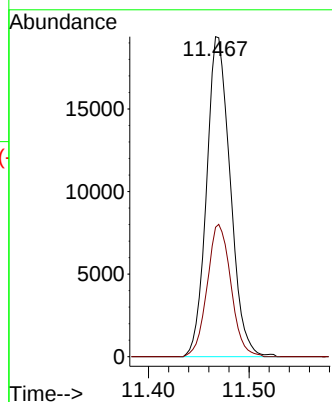
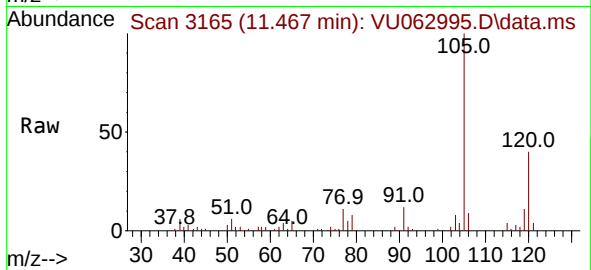
ClientSampleId :

Tgt Ion:105 Resp: 31691

Ion Ratio Lower Upper

105 100

120 41.4 34.2 51.2



#68

1,2-Dibromo-3-chloropropane

Concen: 0.140 ug/L

RT: 13.020 min Scan# 3648

Delta R.T. 0.036 min

Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

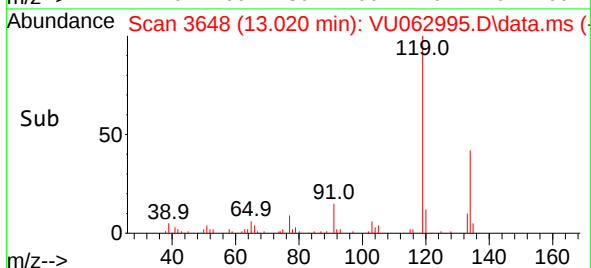
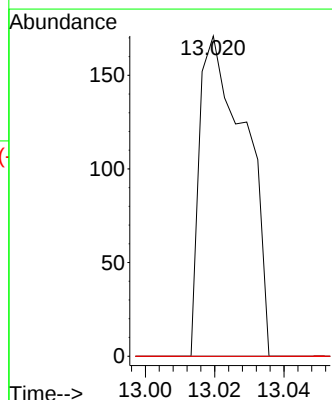
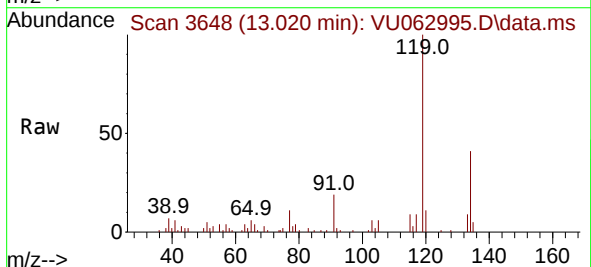
Tgt Ion: 75 Resp: 157

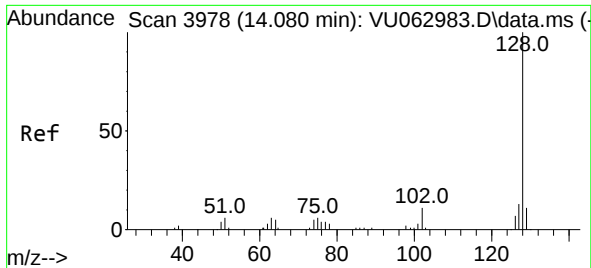
Ion Ratio Lower Upper

75 100

155 0.0 59.6 89.4#

157 0.0 70.8 106.2#





#71

Naphthalene

Concen: 1.299 ug/L

RT: 14.081 min Scan# 3978

Delta R.T. 0.000 min

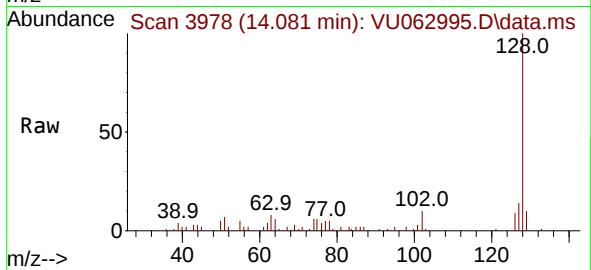
Lab File: VU062995.D

Acq: 24 Jan 2025 16:03

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:	128	Resp:	17993
Ion	Ratio	Lower	Upper
128	100		
129	13.4	8.5	12.7#
127	13.9	10.2	15.2

