

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU031924\
 Data File : VU058167.D
 Acq On : 19 Mar 2024 21:51
 Operator : MD/SY
 Sample : P1796-03
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Mar 20 05:24:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR022924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Mar 20 05:19:57 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	126696	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.409	117	118158	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	53900	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.583	65	37034	4.063	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.200%
7) Chloroethane-d5	1.898	69	32902	4.391	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.800%
11) 1,1-Dichloroethene-d2	2.551	65	19434	4.927	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	98.600%
20) 2-Butanone-d5	4.711	46	83794	55.790	ug/L	0.09
Spiked Amount	50.000	Range	40 - 130	Recovery	=	111.580%
24) Chloroform-d	5.071	84	307468	17.834	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	356.600%#
26) 1,2-Dichloroethane-d4	5.698	65	38275	4.900	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.000%
32) Benzene-d6	5.714	84	169107	4.911	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.200%
36) 1,2-Dichloropropane-d6	6.689	67	48900	4.671	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.400%
41) Toluene-d8	7.891	98	133330	4.274	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.400%
43) trans-1,3-Dichloroprop...	8.174	79	15964	4.435	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.600%
46) 2-Hexanone-d5	8.637	63	70622	58.434	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	116.860%
56) 1,1,2,2-Tetrachloroeth...	10.750	84	33940	5.287	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	105.800%
66) 1,2-Dichlorobenzene-d4	12.187	152	42153	4.749	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.506	50	1879	0.209	ug/L	91
5) Vinyl chloride	1.589	62	45837	4.747	ug/L	100
10) 1,1,2-Trichloro-1,2,2-...	2.560	101	18909	2.199	ug/L #	35
12) 1,1-Dichloroethene	2.560	96	8336724	1090.567	ug/L #	65
14) Carbon disulfide	2.772	76	9810	0.415	ug/L #	90
16) Methylene chloride	3.030	84	20484	2.205	ug/L	90
18) trans-1,2-Dichloroethene	3.332	96	47846	5.746	ug/L	95
19) 1,1-Dichloroethane	3.850	63	161777	9.740	ug/L	98
21) 2-Butanone	4.843	43	32356	18.371	ug/L #	30
22) cis-1,2-Dichloroethene	4.650	96	2078597	226.924	ug/L	99
25) Chloroform	5.075	83	5730148	337.912	ug/L	100
27) 1,2-Dichloroethane	5.788	62	48054	5.119	ug/L	98
29) 1,1,1-Trichloroethane	5.303	97	117925	8.385	ug/L	100
33) Benzene	5.763	78	22325	0.616	ug/L	100
35) Methylcyclohexane	6.570	83	192229	13.145	ug/L #	1
37) 1,2-Dichloropropane	6.685	63	6094	0.652	ug/L #	89
45) 1,1,2-Trichloroethane	8.393	97	59701	10.769	ug/L	97
47) Tetrachloroethene	8.544	164	28301	4.276	ug/L	97
49) Dibromochloromethane	8.544	129	30385	4.630	ug/L #	10

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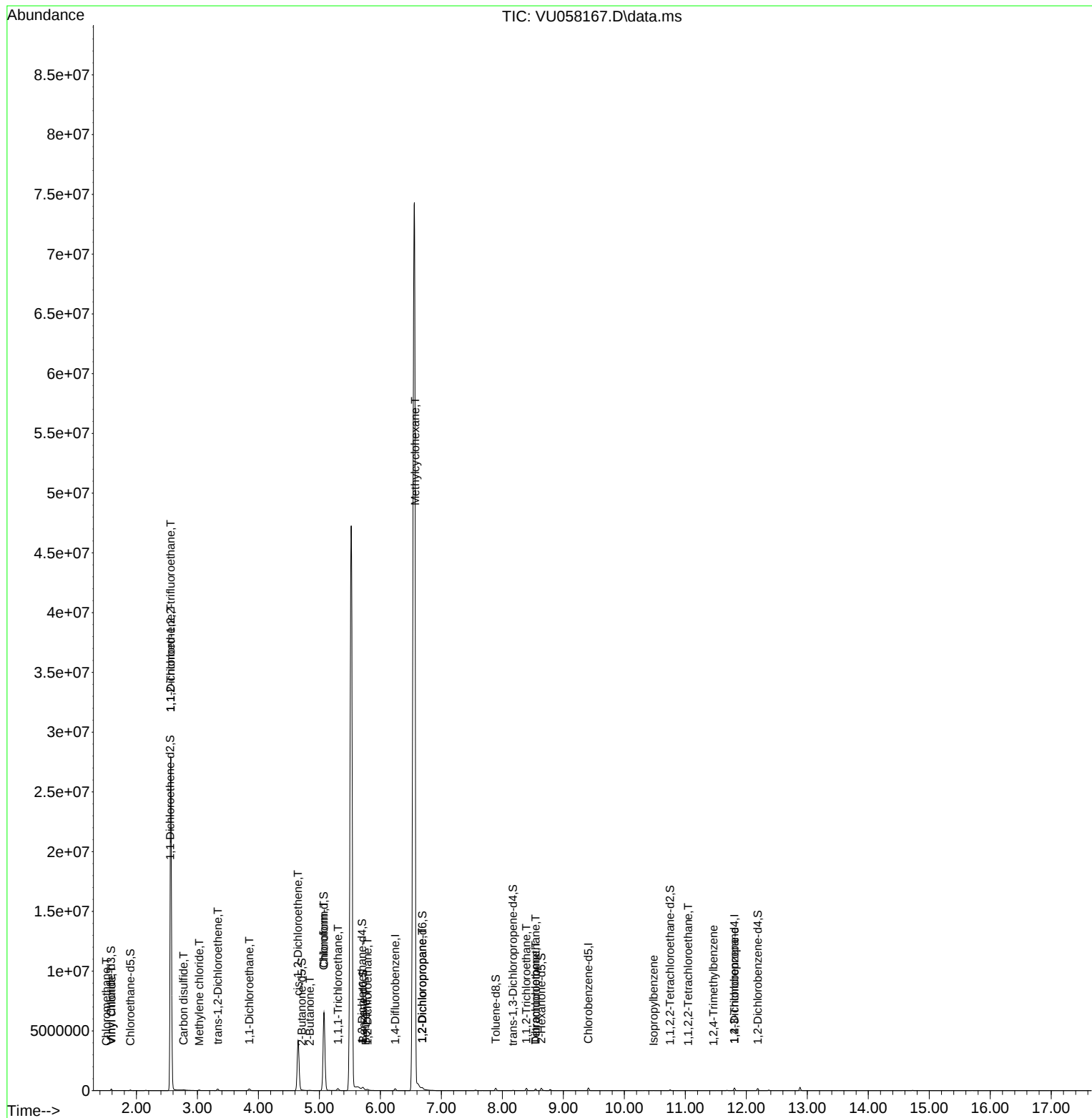
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) 1,1,2,2-Tetrachloroethane	11.045	83	1315	0.201	ug/L #	96
60) Isopropylbenzene	10.480	105	6635	0.185	ug/L	96
61) 1,2,3-Trichloropropane	11.804	75	7313	1.656	ug/L #	67
63) 1,2,4-Trimethylbenzene	11.460	105	1963	0.066	ug/L	93

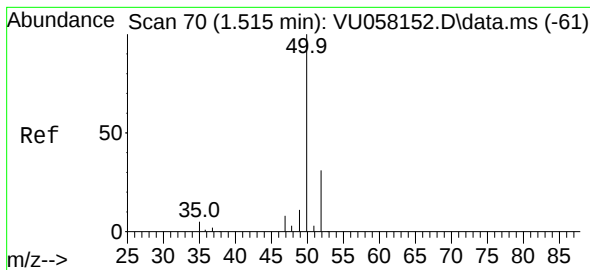
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.209 ug/L

RT: 1.506 min Scan# 61

Delta R.T. -0.009 min

Lab File: VU058167.D

Acq: 19 Mar 2024 21:51

Instrument :

MSVOA_U

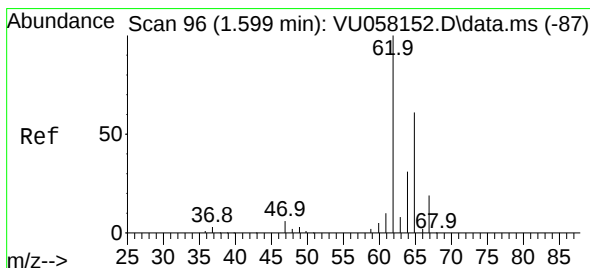
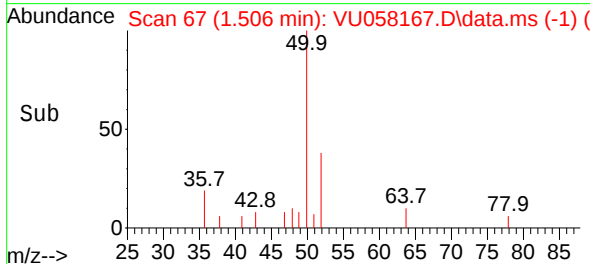
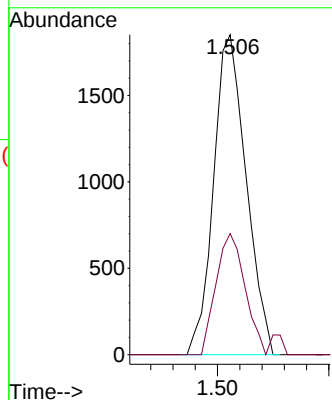
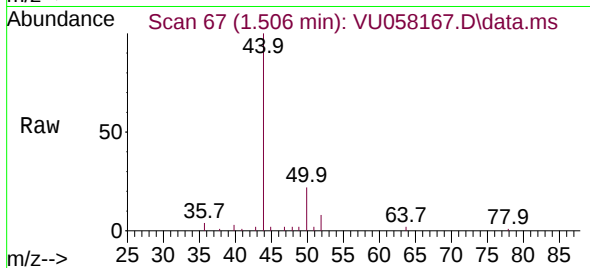
ClientSampleId :

Tgt Ion: 50 Resp: 1879

Ion Ratio Lower Upper

50 100

52 37.9 23.1 42.9



#5

Vinyl chloride

Concen: 4.747 ug/L

RT: 1.589 min Scan# 93

Delta R.T. -0.009 min

Lab File: VU058167.D

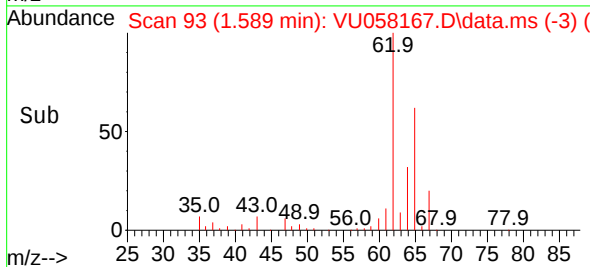
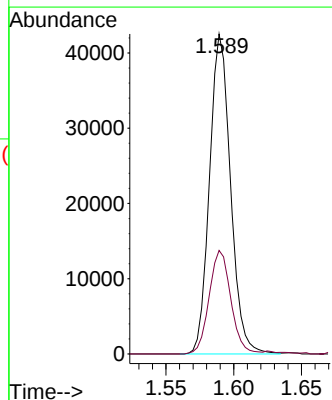
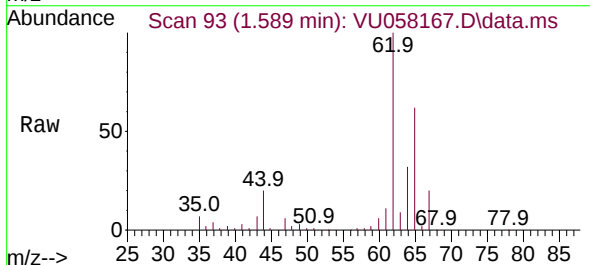
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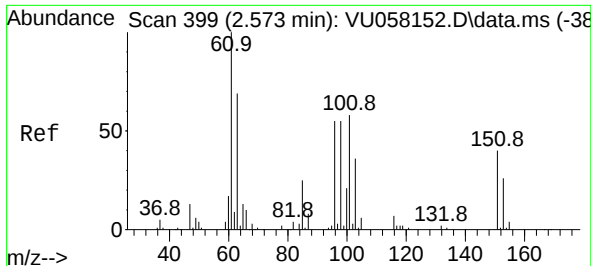
Tgt Ion: 62 Resp: 45837

Ion Ratio Lower Upper

62 100

64 32.4 22.5 41.7

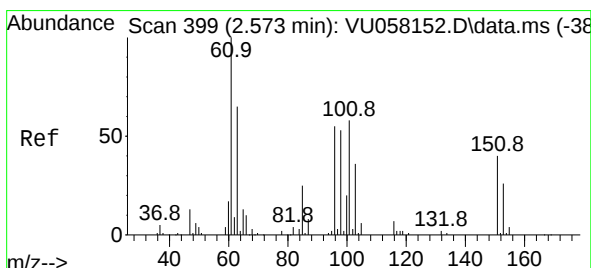
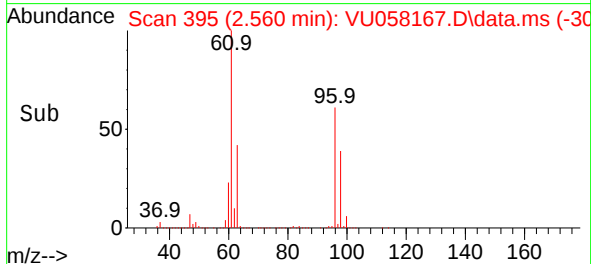
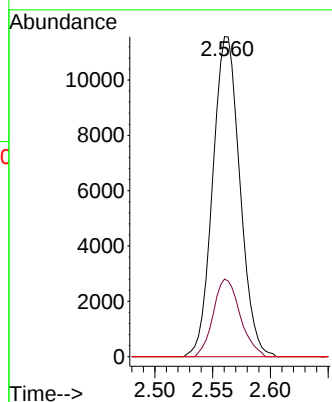
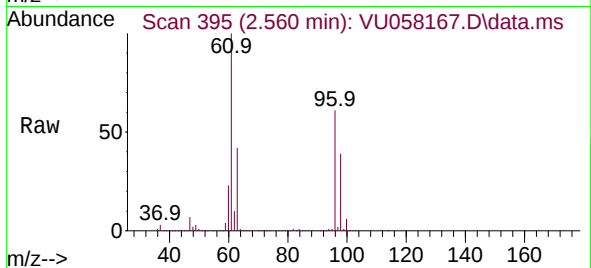




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 2.199 ug/L
 RT: 2.560 min Scan# 395
 Delta R.T. -0.013 min
 Lab File: VU058167.D
 Acq: 19 Mar 2024 21:51

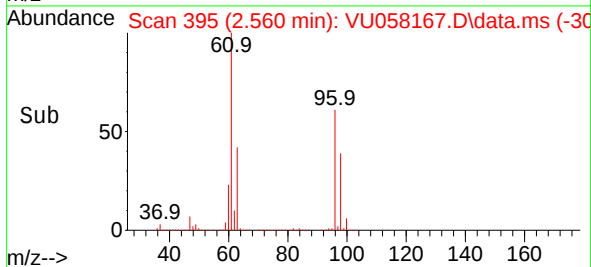
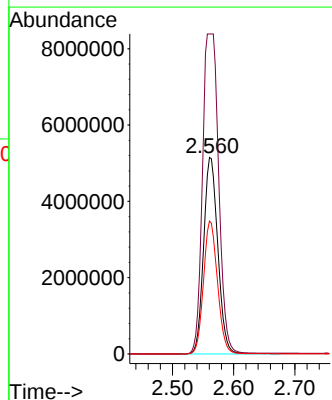
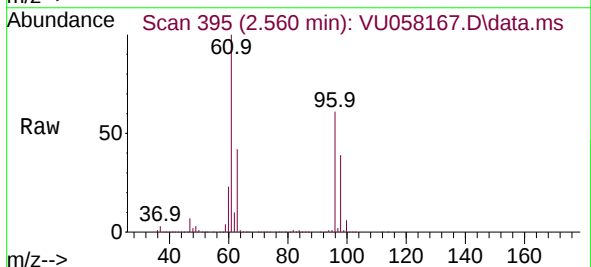
Instrument :
 MSVOA_U
 ClientSampleId :

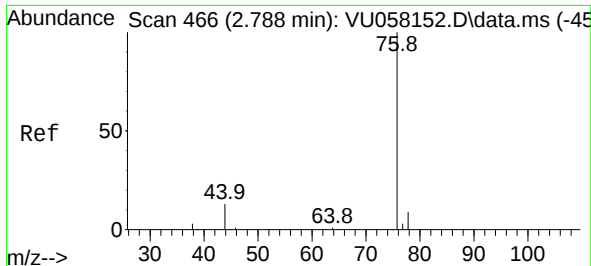
Tgt Ion:101 Resp: 18909
 Ion Ratio Lower Upper
 101 100
 85 24.0 37.3 55.9#
 151 0.0 56.0 84.0#



#12
 1,1-Dichloroethene
 Concen: 1090.567 ug/L
 RT: 2.560 min Scan# 395
 Delta R.T. -0.013 min
 Lab File: VU058167.D
 Acq: 19 Mar 2024 21:51

Tgt Ion: 96 Resp: 8336724
 Ion Ratio Lower Upper
 96 100
 61 162.9 131.8 244.8
 63 67.7 98.1 182.1#

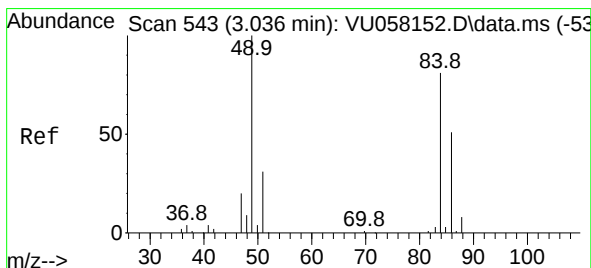
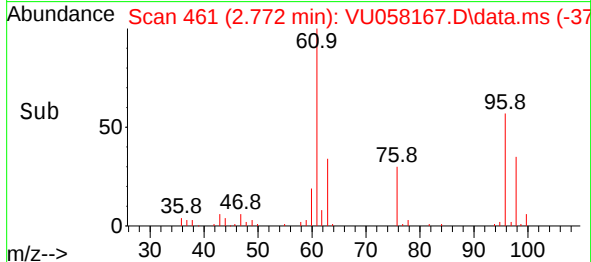
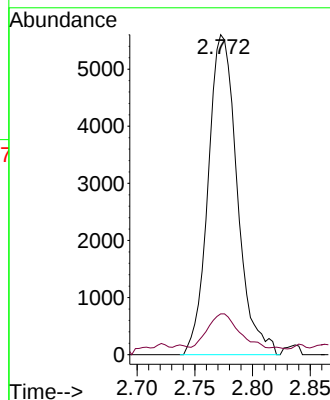
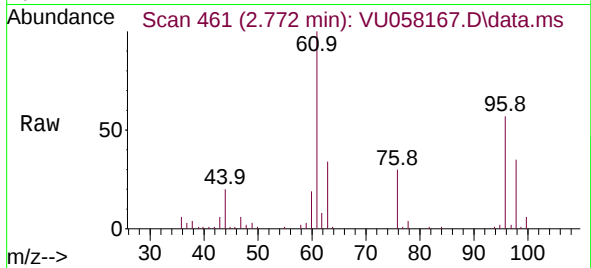




#14
Carbon disulfide
Concen: 0.415 ug/L
RT: 2.772 min Scan# 461
Delta R.T. -0.016 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

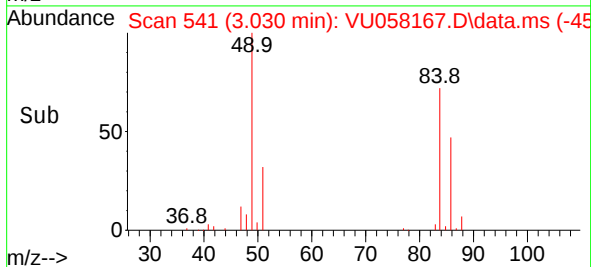
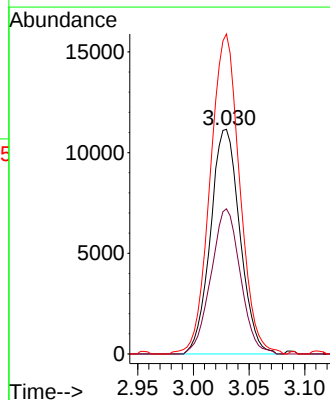
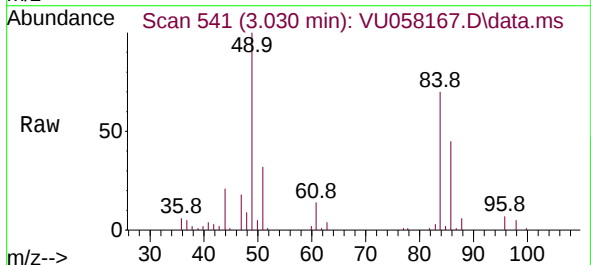
Instrument :
MSVOA_U
ClientSampleId :

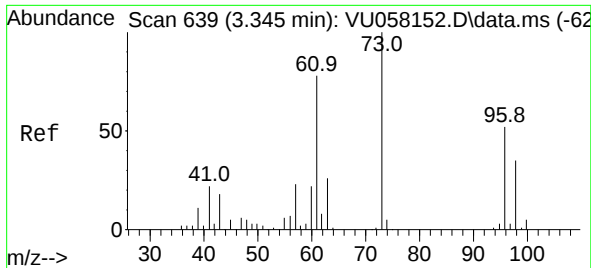
Tgt Ion: 76 Resp: 9810
Ion Ratio Lower Upper
76 100
78 12.7 7.3 10.9#



#16
Methylene chloride
Concen: 2.205 ug/L
RT: 3.030 min Scan# 541
Delta R.T. -0.006 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

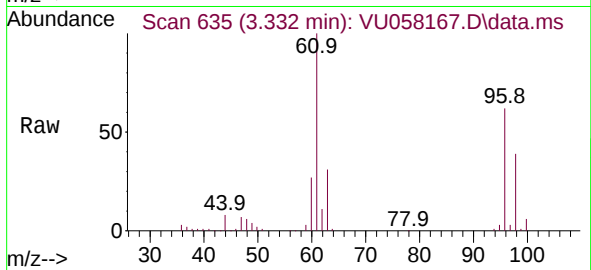
Tgt Ion: 84 Resp: 20484
Ion Ratio Lower Upper
84 100
86 64.6 44.4 82.4
49 142.5 88.8 165.0





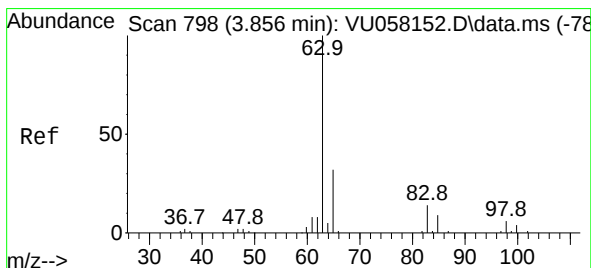
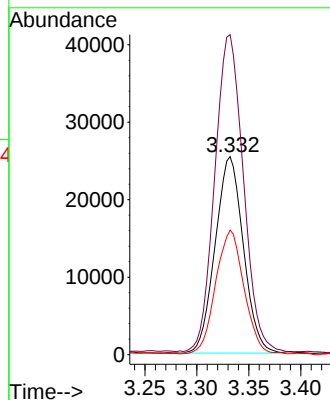
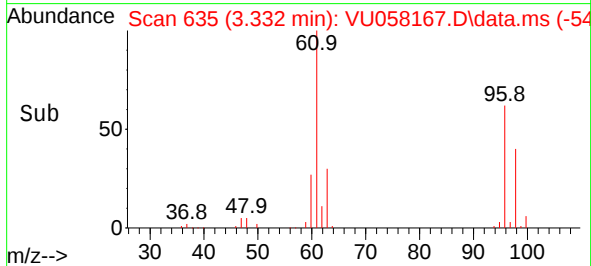
#18
trans-1,2-Dichloroethene
Concen: 5.746 ug/L
RT: 3.332 min Scan# 61
Delta R.T. -0.013 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

Instrument :
MSVOA_U
ClientSampleId :



Tgt Ion: 96 Resp: 47846

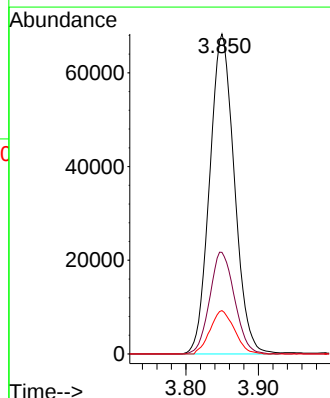
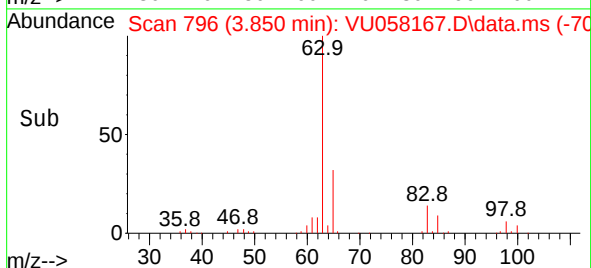
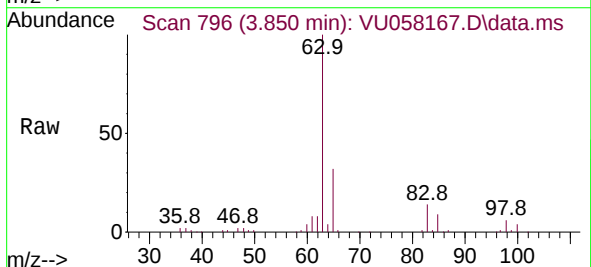
Ion	Ratio	Lower	Upper
96	100		
61	161.6	107.7	199.9
98	62.9	45.8	85.0

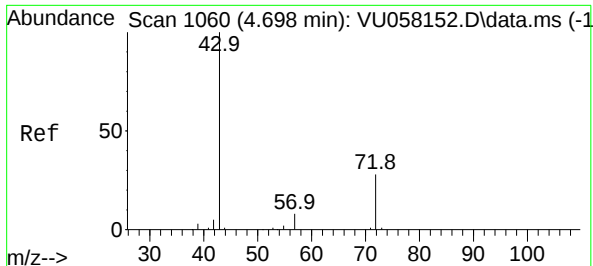


#19
1,1-Dichloroethane
Concen: 9.740 ug/L
RT: 3.850 min Scan# 796
Delta R.T. -0.006 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

Tgt Ion: 63 Resp: 161777

Ion	Ratio	Lower	Upper
63	100		
65	32.3	22.1	41.1
83	13.6	9.0	16.6





#21

2-Butanone

Concen: 18.371 ug/L

RT: 4.843 min Scan# 1105

Delta R.T. 0.145 min

Lab File: VU058167.D

Acq: 19 Mar 2024 21:51

Instrument :

MSVOA_U

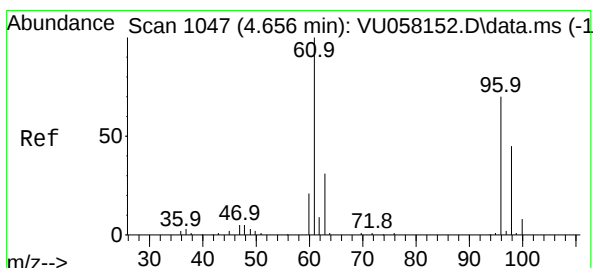
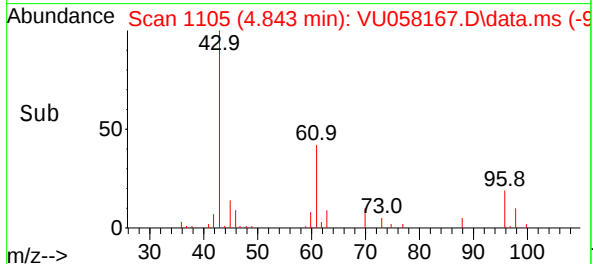
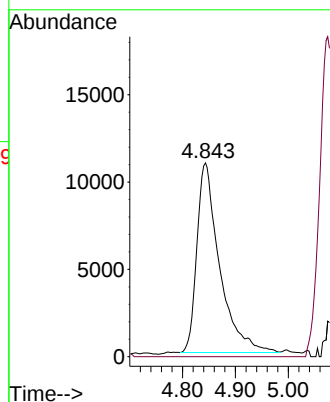
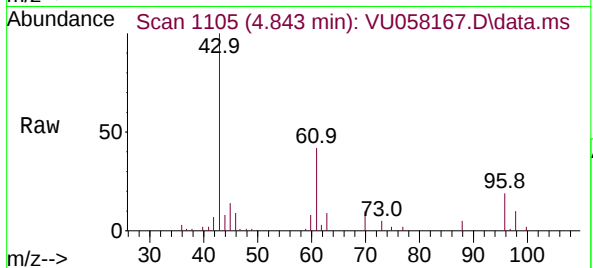
ClientSampleId :

Tgt Ion: 43 Resp: 32356

Ion Ratio Lower Upper

43 100

72 61.8 13.0 39.0#



#22

cis-1,2-Dichloroethene

Concen: 226.924 ug/L

RT: 4.650 min Scan# 1045

Delta R.T. -0.006 min

Lab File: VU058167.D

Acq: 19 Mar 2024 21:51

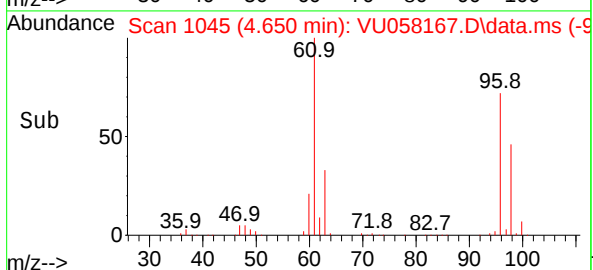
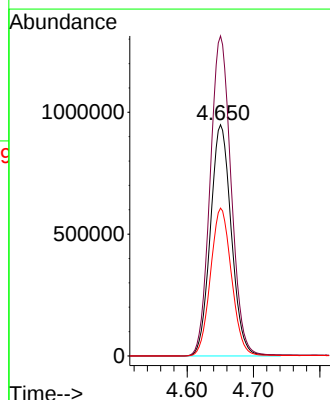
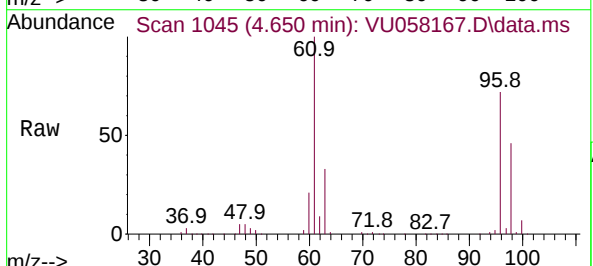
Tgt Ion: 96 Resp: 2078597

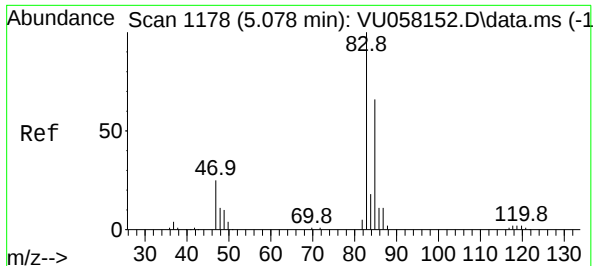
Ion Ratio Lower Upper

96 100

61 138.4 97.2 180.4

98 64.0 45.5 84.5





#25

Chloroform

Concen: 337.912 ug/L

RT: 5.075 min Scan# 1178

Delta R.T. -0.003 min

Lab File: VU058167.D

Acq: 19 Mar 2024 21:51

Instrument :

MSVOA_U

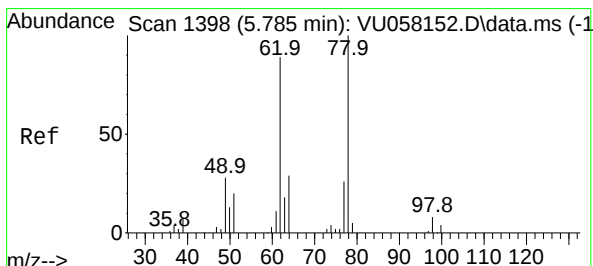
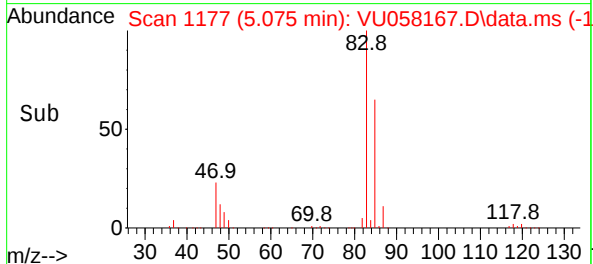
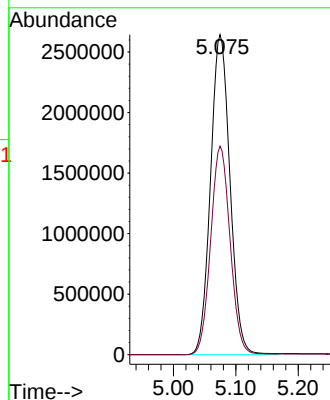
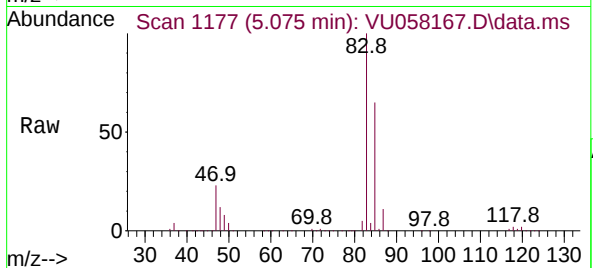
ClientSampleId :

Tgt Ion: 83 Resp: 5730148

Ion Ratio Lower Upper

83 100

85 65.2 45.4 84.4



#27

1,2-Dichloroethane

Concen: 5.119 ug/L

RT: 5.788 min Scan# 1399

Delta R.T. 0.003 min

Lab File: VU058167.D

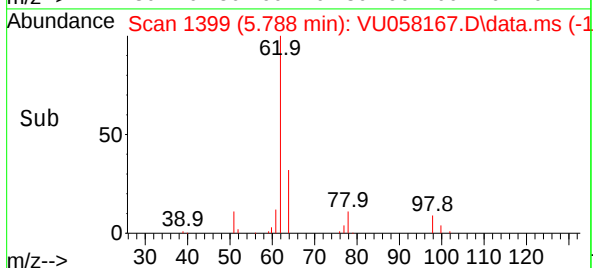
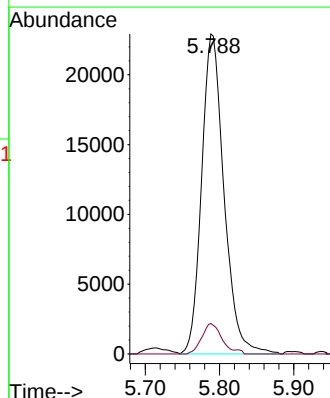
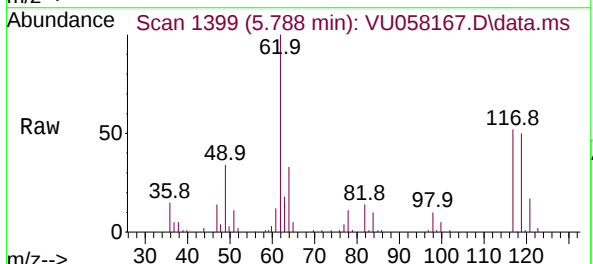
Acq: 19 Mar 2024 21:51

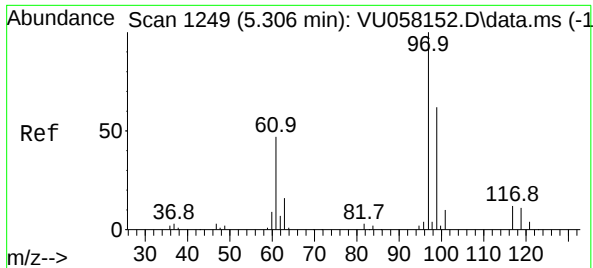
Tgt Ion: 62 Resp: 48054

Ion Ratio Lower Upper

62 100

98 9.5 7.0 10.4

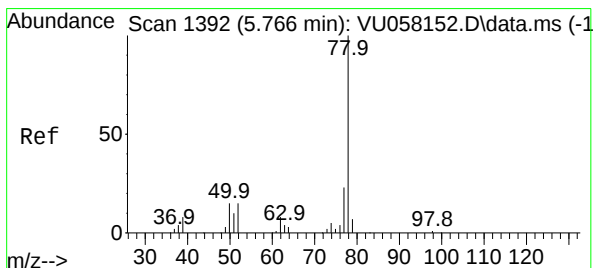
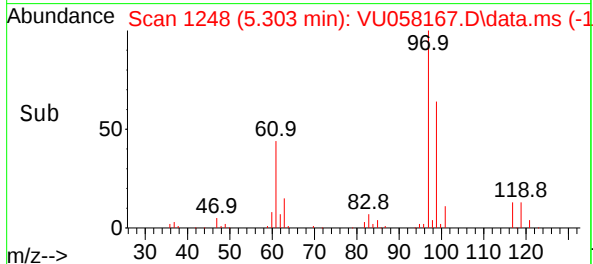
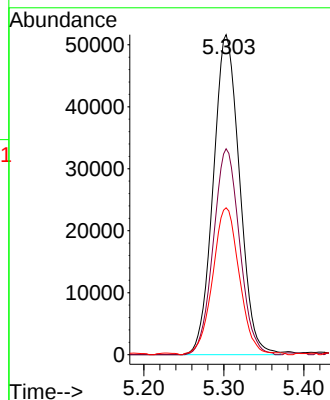
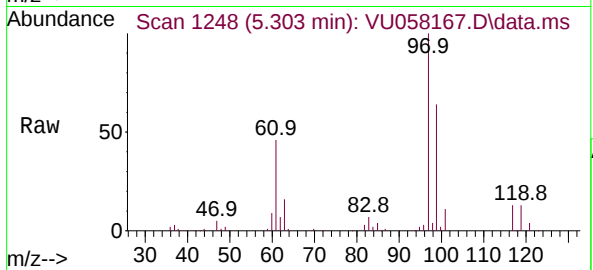




#29
1,1,1-Trichloroethane
Concen: 8.385 ug/L
RT: 5.303 min Scan# 117925
Delta R.T. -0.003 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

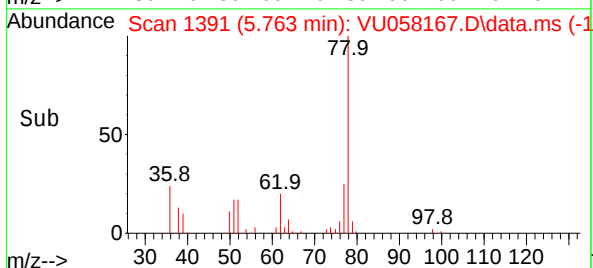
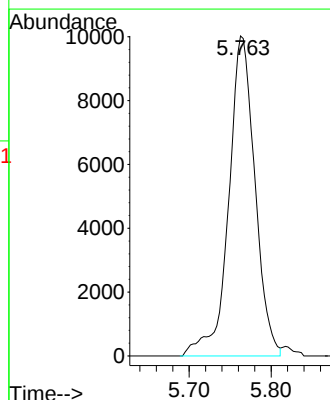
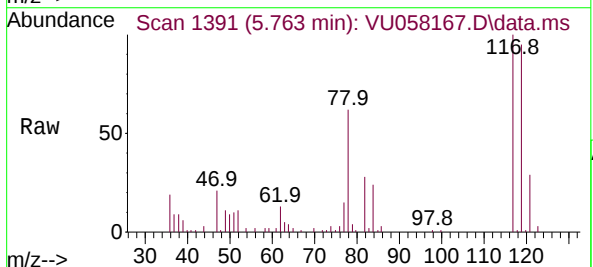
Instrument :
MSVOA_U
ClientSampleId :

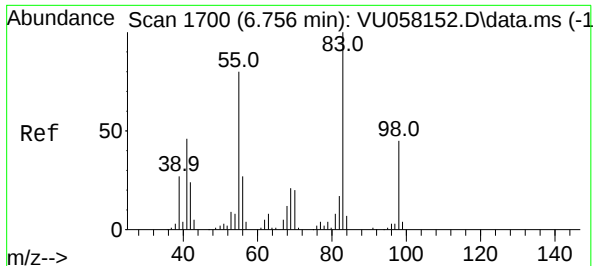
Tgt Ion: 97 Resp: 117925
Ion Ratio Lower Upper
97 100
99 64.2 51.2 76.8
61 46.7 37.4 56.2



#33
Benzene
Concen: 0.616 ug/L
RT: 5.763 min Scan# 1391
Delta R.T. -0.003 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

Tgt Ion: 78 Resp: 22325





#35

Methylcyclohexane

Concen: 13.145 ug/L

RT: 6.570 min Scan# 1

Delta R.T. -0.186 min

Lab File: VU058167.D

Acq: 19 Mar 2024 21:51

Instrument :

MSVOA_U

ClientSampleId :

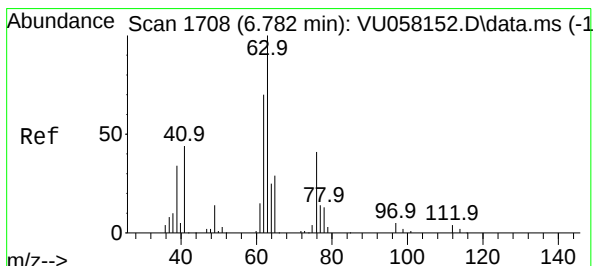
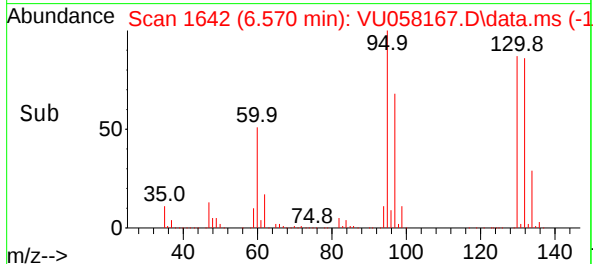
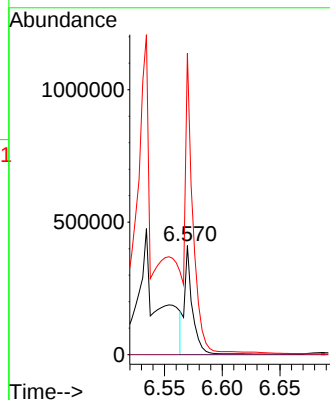
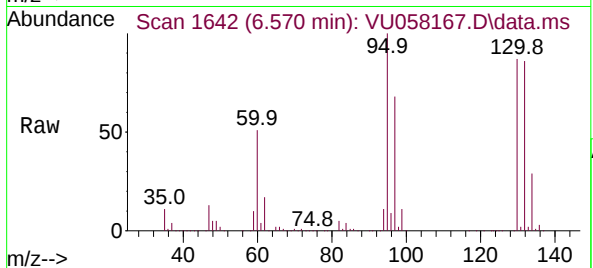
Tgt Ion: 83 Resp: 192229

Ion Ratio Lower Upper

83 100

55 0.9 63.0 94.6#

98 293.8 36.2 54.4#



#37

1,2-Dichloropropane

Concen: 0.652 ug/L

RT: 6.685 min Scan# 1678

Delta R.T. -0.096 min

Lab File: VU058167.D

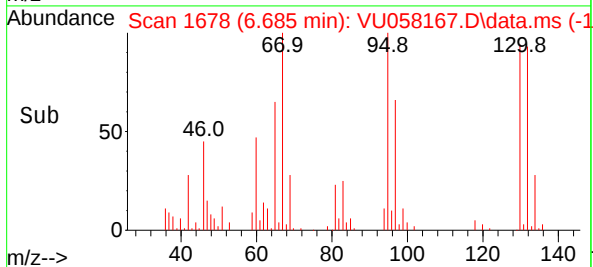
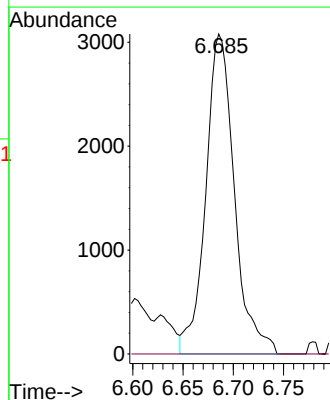
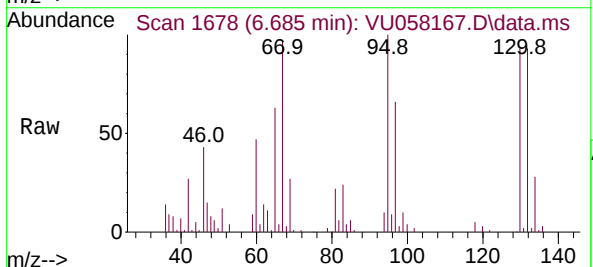
Acq: 19 Mar 2024 21:51

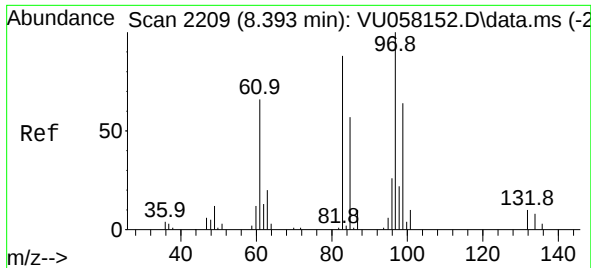
Tgt Ion: 63 Resp: 6094

Ion Ratio Lower Upper

63 100

112 0.0 3.0 4.4#

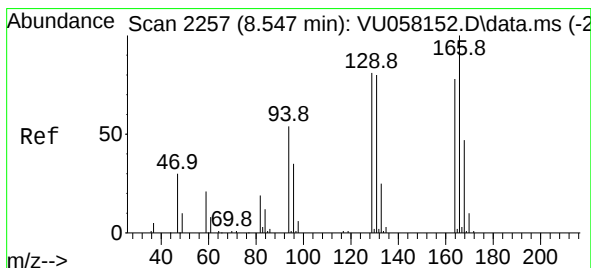
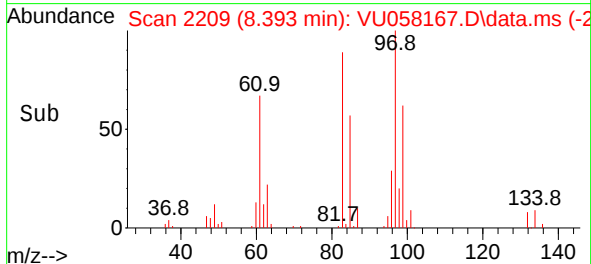
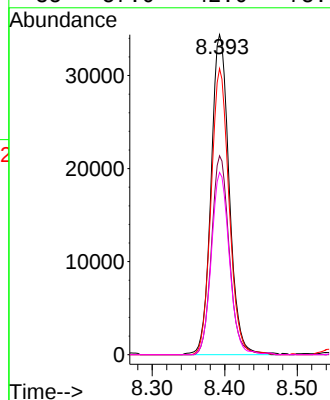
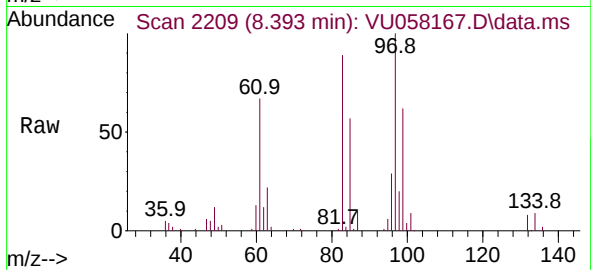




#45
1,1,2-Trichloroethane
Concen: 10.769 ug/L
RT: 8.393 min Scan# 2209
Delta R.T. 0.000 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

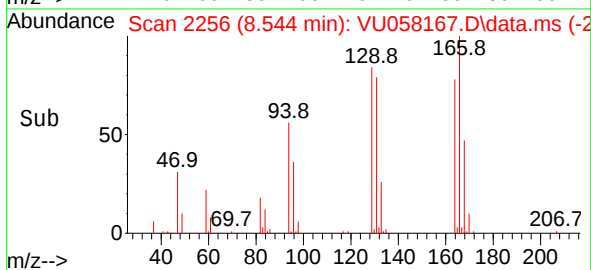
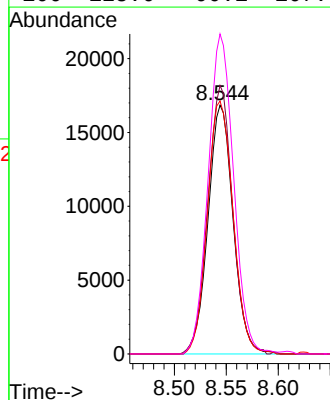
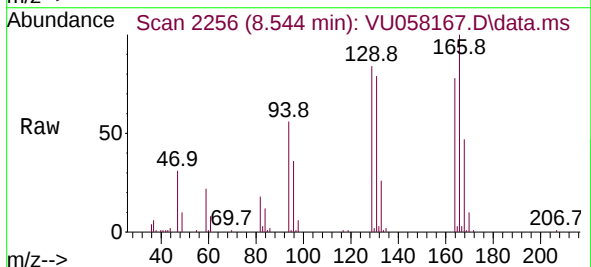
Instrument :
MSVOA_U
ClientSampleId :

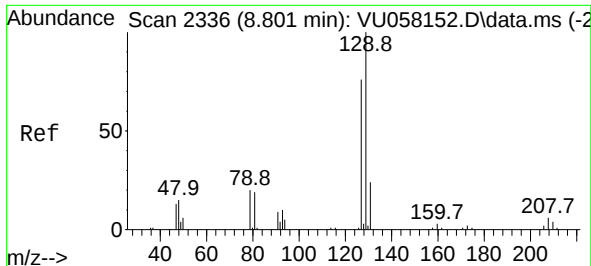
Tgt Ion:	97	Resp:	59701
Ion	Ratio	Lower	Upper
97	100		
99	62.1	44.2	82.2
83	89.4	64.2	119.2
85	57.0	42.0	78.0



#47
Tetrachloroethene
Concen: 4.276 ug/L
RT: 8.544 min Scan# 2256
Delta R.T. -0.003 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

Tgt Ion:	164	Resp:	28301
Ion	Ratio	Lower	Upper
164	100		
129	107.9	69.3	128.7
131	101.7	69.9	129.9
166	128.6	90.1	167.3





#49

Dibromochloromethane

Concen: 4.630 ug/L

RT: 8.544 min Scan# 21

Delta R.T. -0.257 min

Lab File: VU058167.D

Acq: 19 Mar 2024 21:51

Instrument :

MSVOA_U

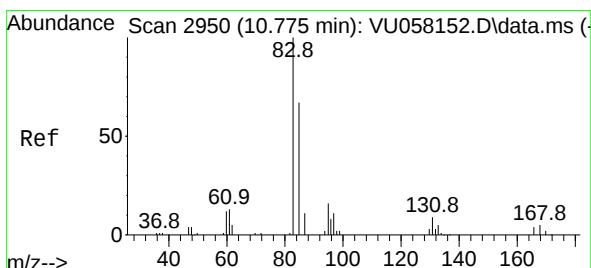
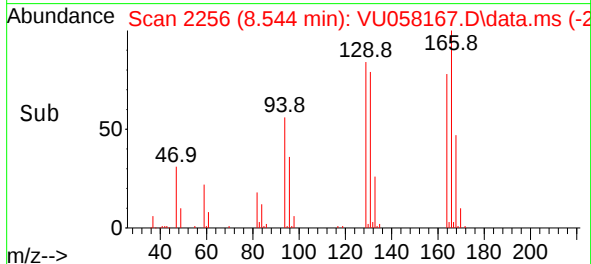
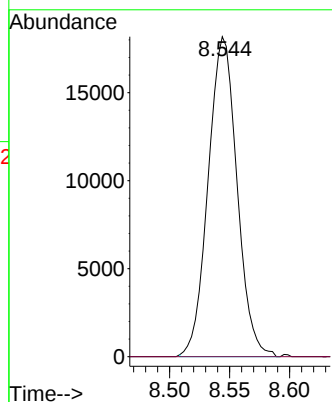
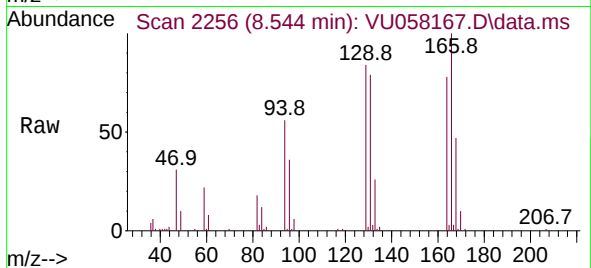
ClientSampleId :

Tgt Ion:129 Resp: 30385

Ion Ratio Lower Upper

129 100

127 0.0 55.2 102.6#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.201 ug/L

RT: 11.045 min Scan# 3034

Delta R.T. 0.270 min

Lab File: VU058167.D

Acq: 19 Mar 2024 21:51

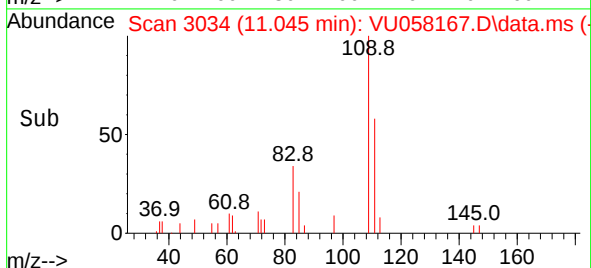
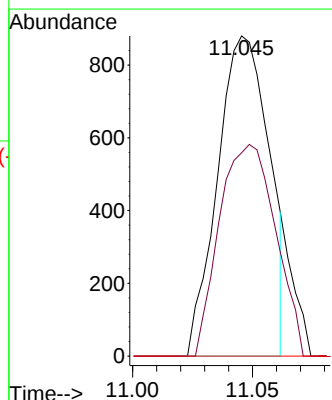
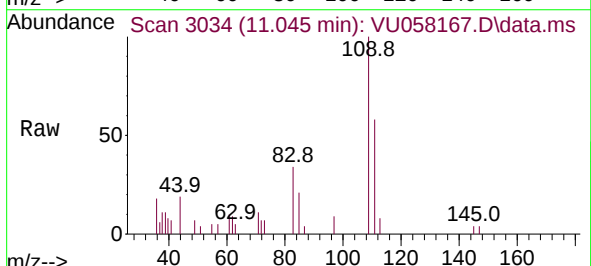
Tgt Ion: 83 Resp: 1315

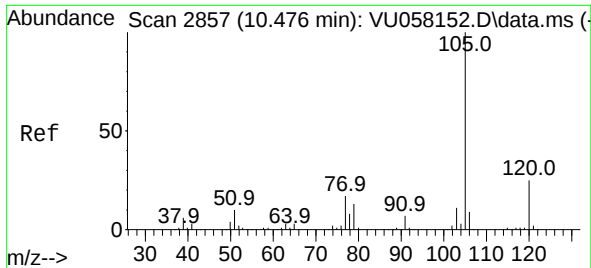
Ion Ratio Lower Upper

83 100

85 63.5 44.0 81.6

131 0.0 6.9 10.3#

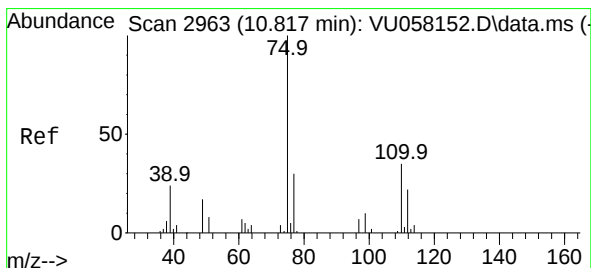
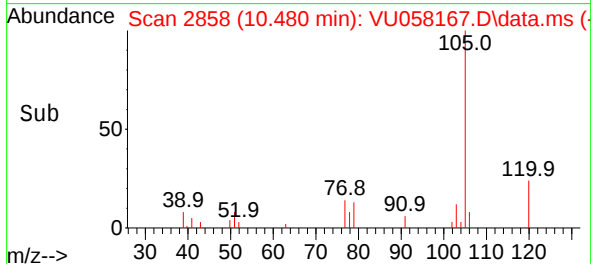
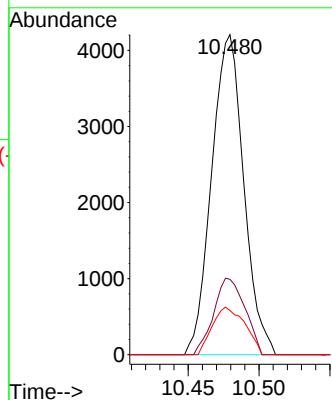
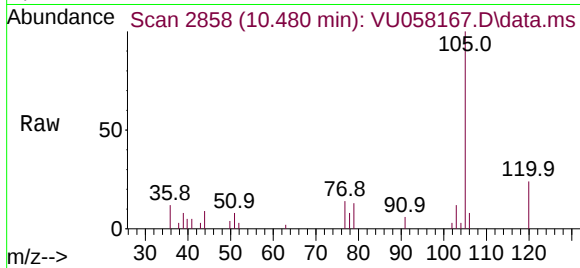




#60
Isopropylbenzene
Concen: 0.185 ug/L
RT: 10.480 min Scan# 21
Delta R.T. 0.003 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

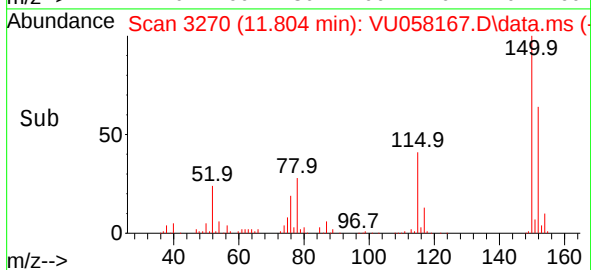
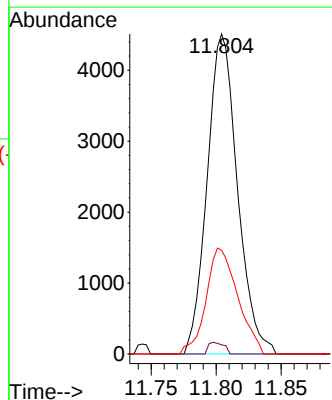
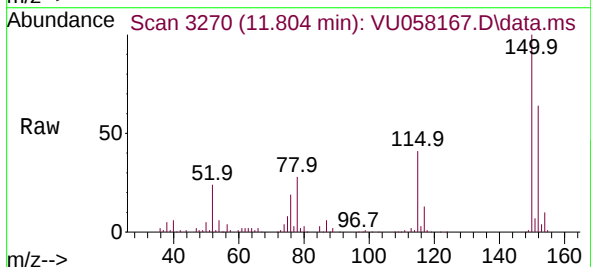
Instrument :
MSVOA_U
ClientSampleId :

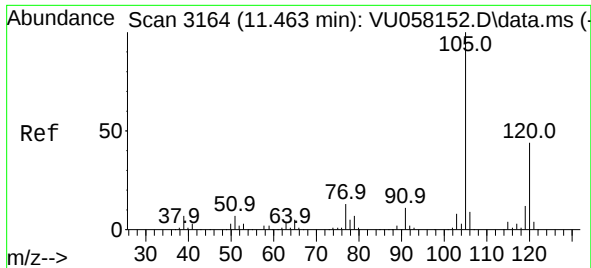
Tgt Ion:	105	Resp:	6635
Ion Ratio	Lower	Upper	
105	100		
120	23.3	20.4	30.6
77	15.1	13.2	19.8



#61
1,2,3-Trichloropropane
Concen: 1.656 ug/L
RT: 11.804 min Scan# 3270
Delta R.T. 0.987 min
Lab File: VU058167.D
Acq: 19 Mar 2024 21:51

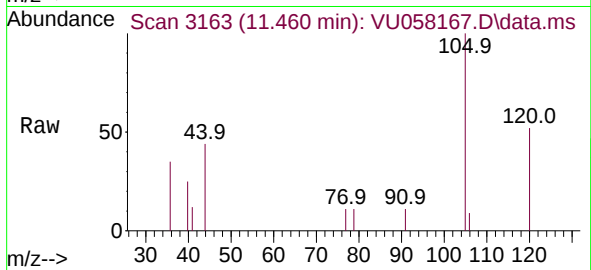
Tgt Ion:	75	Resp:	7313
Ion Ratio	Lower	Upper	
75	100		
110	1.9	28.0	42.0#
77	34.6	24.7	37.1





#63
 1,2,4-Trimethylbenzene
 Concen: 0.066 ug/L
 RT: 11.460 min Scan# 3163
 Delta R.T. -0.003 min
 Lab File: VU058167.D
 Acq: 19 Mar 2024 21:51

Instrument :
 MSVOA_U
 ClientSampleId :



Tgt Ion:	105	Resp:	1963
Ion Ratio	Lower	Upper	
105	100		
120	48.0	34.8	52.2

