

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111623\
 Data File : VU056413.D
 Acq On : 16 Nov 2023 17:33
 Operator : MD/SY
 Sample : 05371-13RE
 Misc : 25mL/MSVOA_U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 17 01:39:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR111323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 17 01:31:28 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.245	114	295396	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.415	117	296802	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	138227	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	90823	4.111	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.200%
7) Chloroethane-d5	1.911	69	76447	4.513	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.200%
11) 1,1-Dichloroethene-d2	2.560	65	42023	4.310	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.200%
20) 2-Butanone-d5	4.624	46	241227	54.753	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	109.500%
24) Chloroform-d	5.055	84	203557	4.763	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.200%
26) 1,2-Dichloroethane-d4	5.695	65	101928	5.161	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.200%
32) Benzene-d6	5.721	84	390589	4.417	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.400%
36) 1,2-Dichloropropane-d6	6.685	67	125007	4.690	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.800%
41) Toluene-d8	7.894	98	331753	4.248	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.000%
43) trans-1,3-Dichloroprop...	8.177	79	45596	4.461	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.200%
46) 2-Hexanone-d5	8.627	63	195146	48.582	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	97.160%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	91171	4.787	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.800%
66) 1,2-Dichlorobenzene-d4	12.190	152	127341	4.987	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.515	50	8194	0.343	ug/L	92
5) Vinyl chloride	1.602	62	22794	0.989	ug/L	91
8) Chloroethane	1.930	64	2703	0.192	ug/L	96
10) 1,1,2-Trichloro-1,2,2-...	2.573	101	4200	0.213	ug/L #	75
13) Acetone	2.634	43	284955	75.940	ug/L	100
15) Methyl Acetate	3.039	43	6515	0.976	ug/L #	49
17) Methyl tert-butyl Ether	3.361	73	5025	0.114	ug/L #	72
21) 2-Butanone	4.711	43	55025	11.301	ug/L	100
22) cis-1,2-Dichloroethene	4.666	96	15982	0.757	ug/L	95
33) Benzene	5.769	78	53498	0.632	ug/L	100
34) Trichloroethene	6.537	95	135445	5.870	ug/L	98
35) Methylcyclohexane	6.685	83	28889	0.867	ug/L #	18
37) 1,2-Dichloropropane	6.685	63	13666	0.619	ug/L #	88
45) 1,1,2-Trichloroethane	8.547	97	1882	0.128	ug/L #	19
47) Tetrachloroethene	8.550	164	191634	12.316	ug/L	99
48) 2-Hexanone	8.685	43	17306	2.029	ug/L #	88
49) Dibromochloromethane	8.547	129	199918	11.953	ug/L #	12
61) 1,2,3-Trichloropropane	11.807	75	17161	1.447	ug/L #	68
62) 1,3,5-Trimethylbenzene	11.891	105	89727	1.226	ug/L	90

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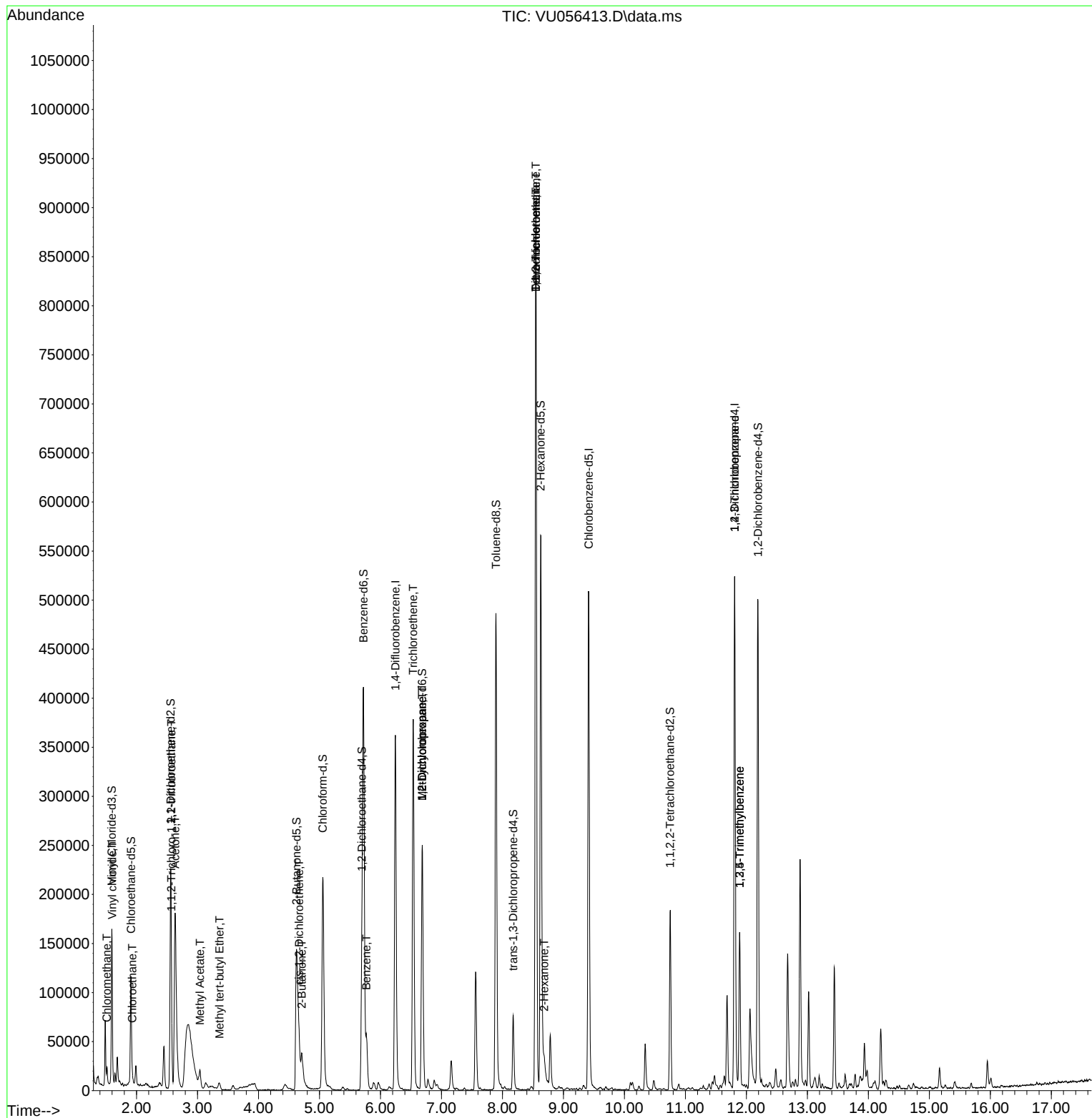
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
63) 1,2,4-Trimethylbenzene	11.891	105	89727	1.242	ug/L	96

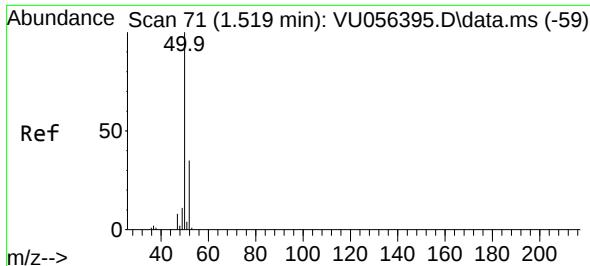
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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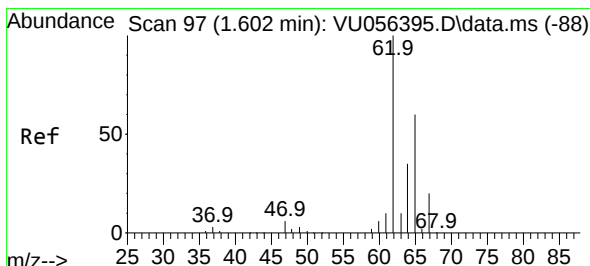
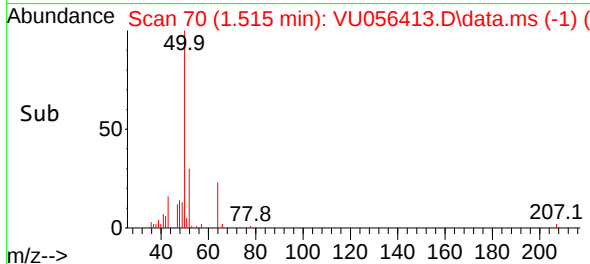
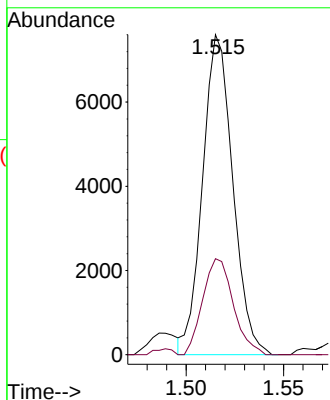
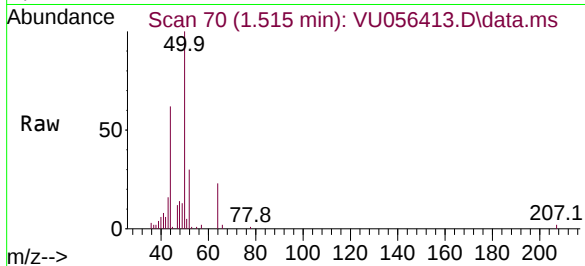




#3
Chloromethane
Concen: 0.343 ug/L
RT: 1.515 min Scan# 70
Delta R.T. -0.004 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

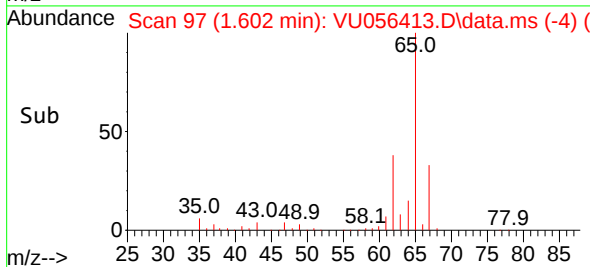
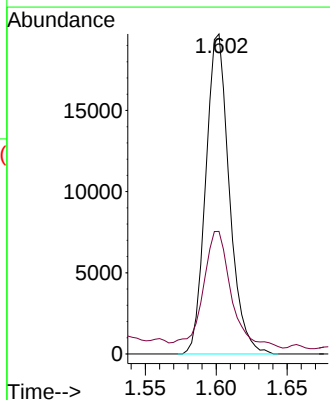
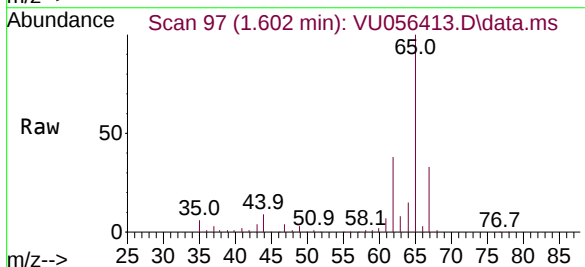
Instrument :
MSVOA_U
ClientSampleId :

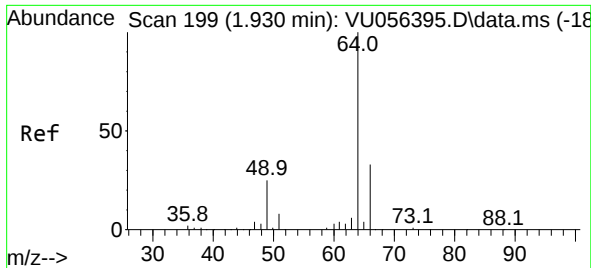
Tgt Ion: 50 Resp: 8194
Ion Ratio Lower Upper
50 100
52 30.0 24.3 45.1



#5
Vinyl chloride
Concen: 0.989 ug/L
RT: 1.602 min Scan# 97
Delta R.T. -0.000 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

Tgt Ion: 62 Resp: 22794
Ion Ratio Lower Upper
62 100
64 38.3 23.3 43.3

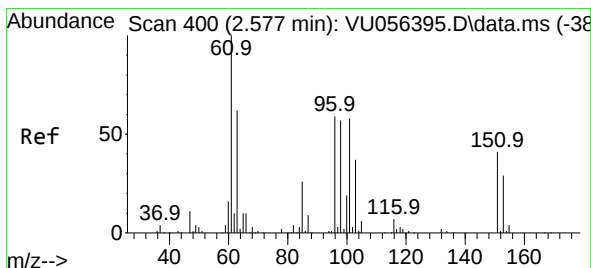
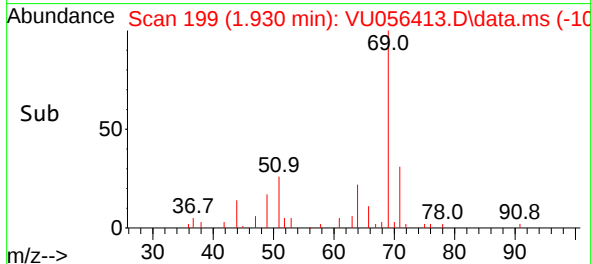
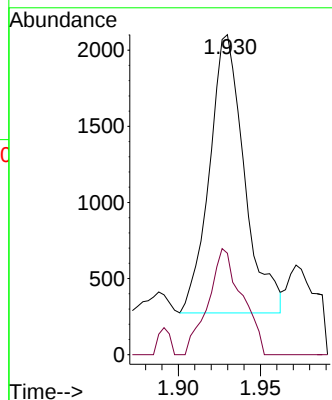
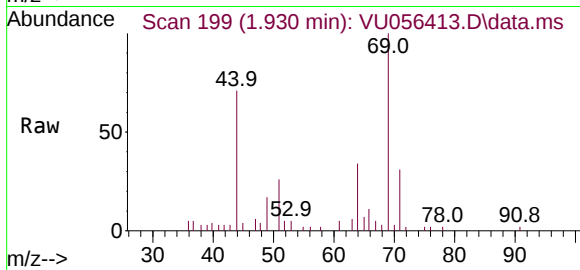




#8
Chloroethane
Concen: 0.192 ug/L
RT: 1.930 min Scan# 199
Delta R.T. -0.000 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

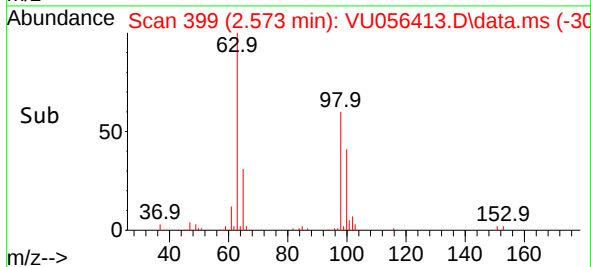
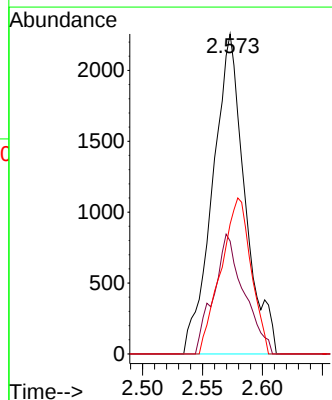
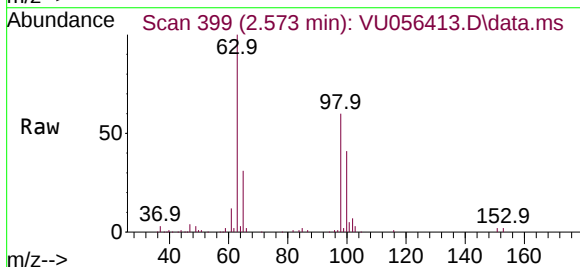
Instrument :
MSVOA_U
ClientSampleId :

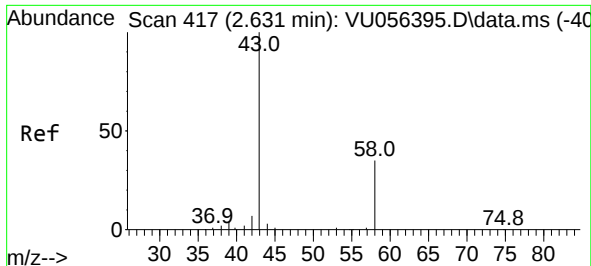
Tgt Ion: 64 Resp: 2703
Ion Ratio Lower Upper
64 100
66 31.7 23.9 44.5



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.213 ug/L
RT: 2.573 min Scan# 399
Delta R.T. -0.004 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

Tgt Ion:101 Resp: 4200
Ion Ratio Lower Upper
101 100
85 35.3 35.4 53.0#
151 45.7 58.0 87.0#





#13

Acetone

Concen: 75.940 ug/L

RT: 2.634 min Scan# 41

Delta R.T. 0.003 min

Lab File: VU056413.D

Acq: 16 Nov 2023 17:33

Instrument :

MSVOA_U

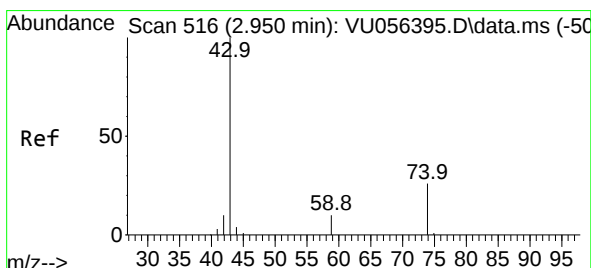
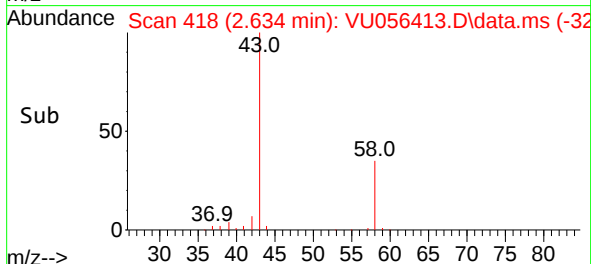
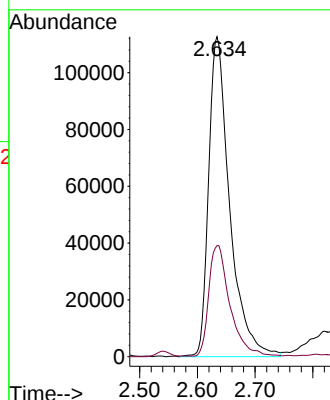
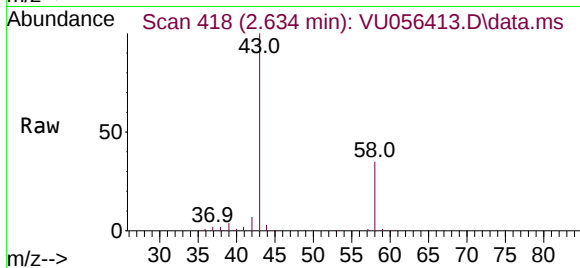
ClientSampleId :

Tgt Ion: 43 Resp: 284955

Ion Ratio Lower Upper

43 100

58 34.8 0.0 70.0



#15

Methyl Acetate

Concen: 0.976 ug/L

RT: 3.039 min Scan# 544

Delta R.T. 0.090 min

Lab File: VU056413.D

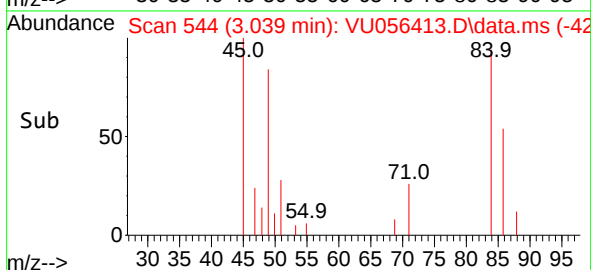
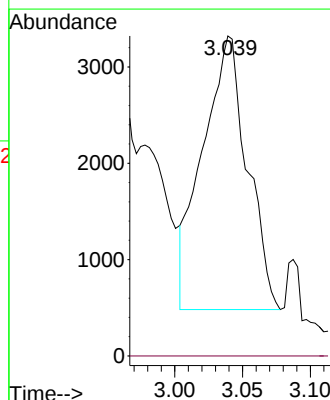
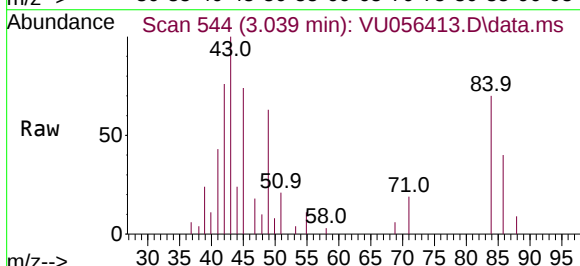
Acq: 16 Nov 2023 17:33

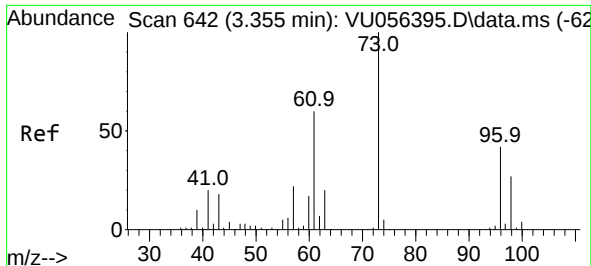
Tgt Ion: 43 Resp: 6515

Ion Ratio Lower Upper

43 100

74 0.0 20.6 31.0#

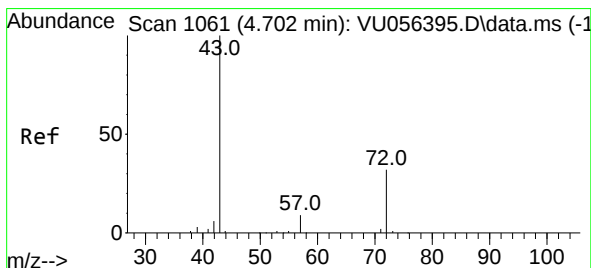
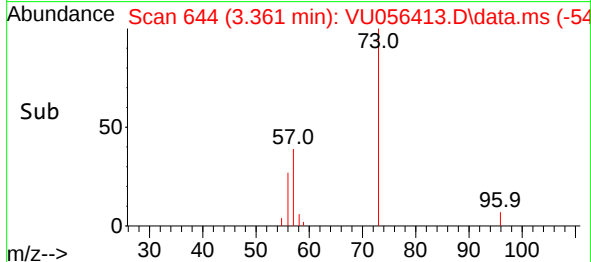
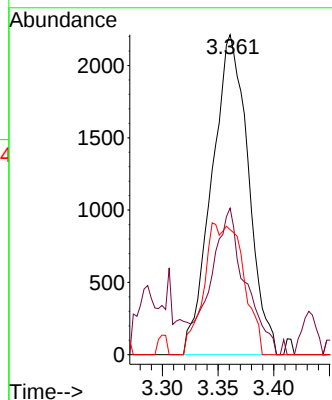
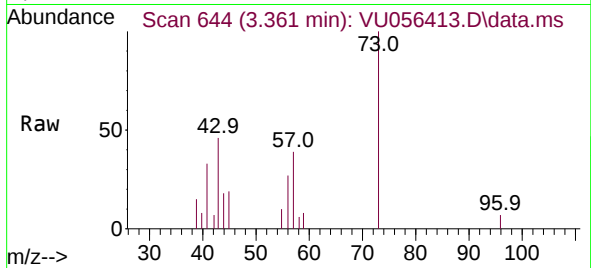




#17
Methyl tert-butyl Ether
Concen: 0.114 ug/L
RT: 3.361 min Scan# 642
Delta R.T. 0.006 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

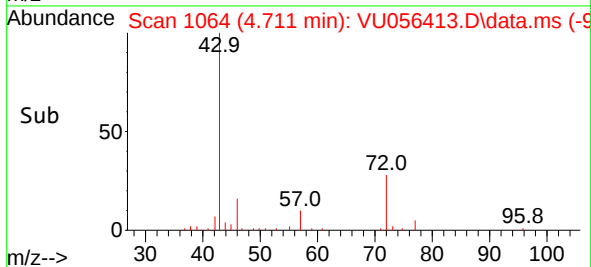
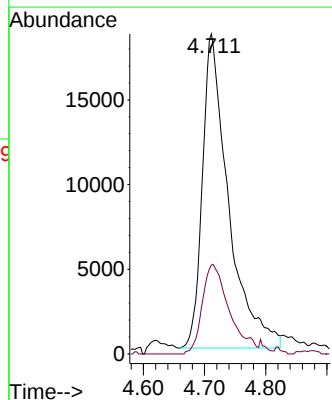
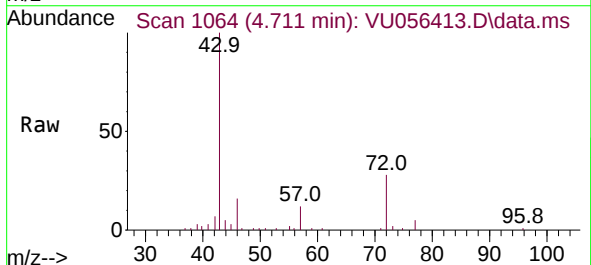
Instrument :
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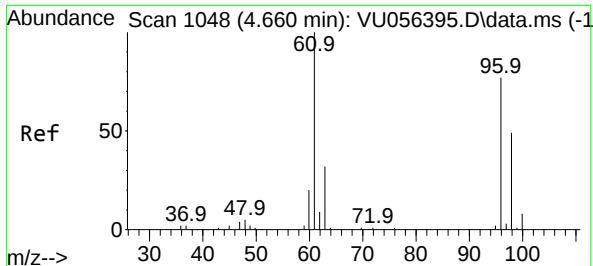
Tgt Ion: 73 Resp: 5025
Ion Ratio Lower Upper
73 100
43 43.0 15.1 22.7#
57 19.2 17.8 26.8



#21
2-Butanone
Concen: 11.301 ug/L
RT: 4.711 min Scan# 1064
Delta R.T. 0.009 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

Tgt Ion: 43 Resp: 55025
Ion Ratio Lower Upper
43 100
72 28.2 14.2 42.6

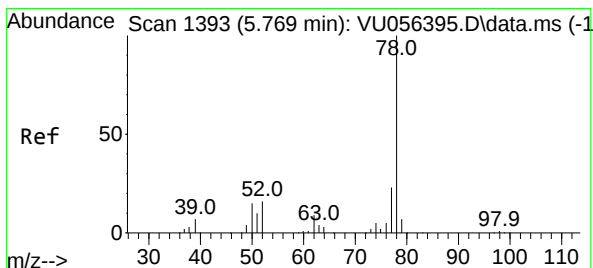
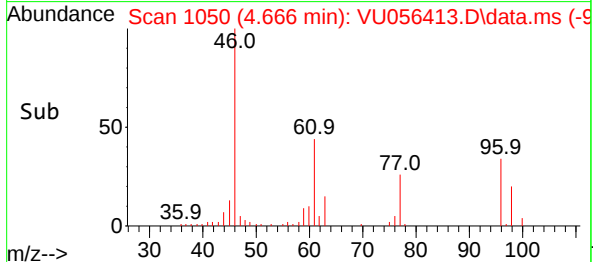
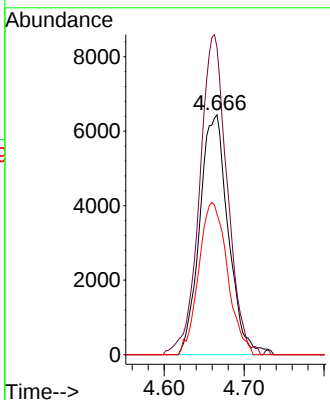
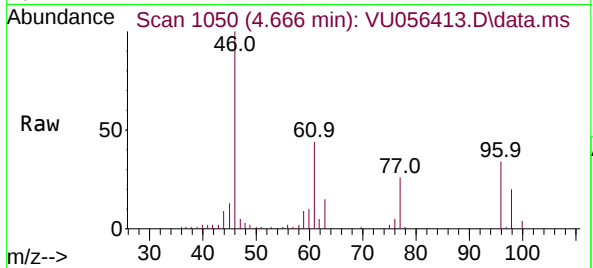




#22
 cis-1,2-Dichloroethene
 Concen: 0.757 ug/L
 RT: 4.666 min Scan# 1050
 Delta R.T. 0.006 min
 Lab File: VU056413.D
 Acq: 16 Nov 2023 17:33

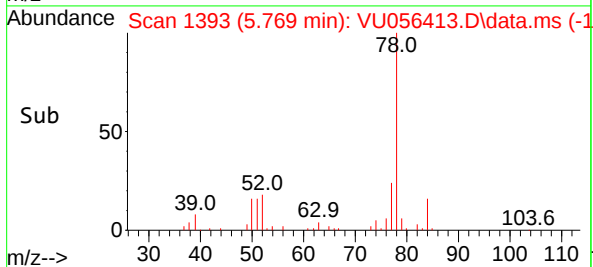
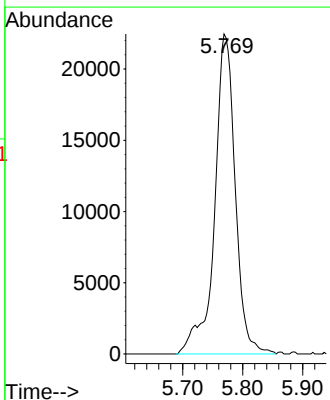
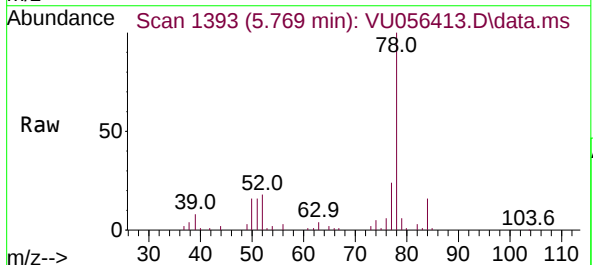
Instrument :
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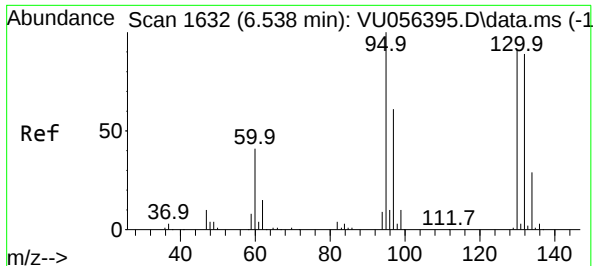
Tgt Ion: 96 Resp: 15982
 Ion Ratio Lower Upper
 96 100
 61 128.1 93.2 173.2
 98 58.7 44.8 83.2



#33
 Benzene
 Concen: 0.632 ug/L
 RT: 5.769 min Scan# 1393
 Delta R.T. -0.000 min
 Lab File: VU056413.D
 Acq: 16 Nov 2023 17:33

Tgt Ion: 78 Resp: 53498





#34

Trichloroethene

Concen: 5.870 ug/L

RT: 6.537 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU056413.D

Acq: 16 Nov 2023 17:33

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 95 Resp: 135445

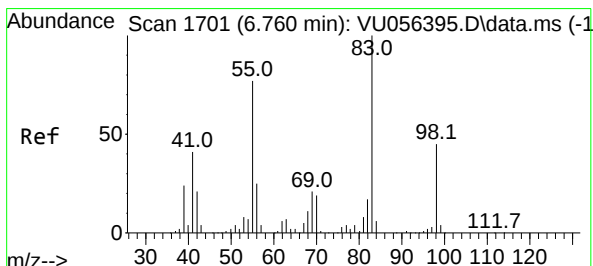
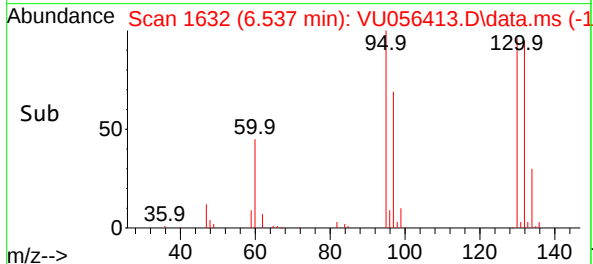
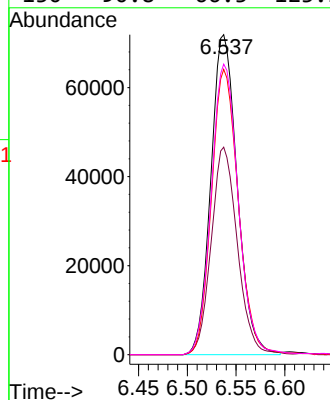
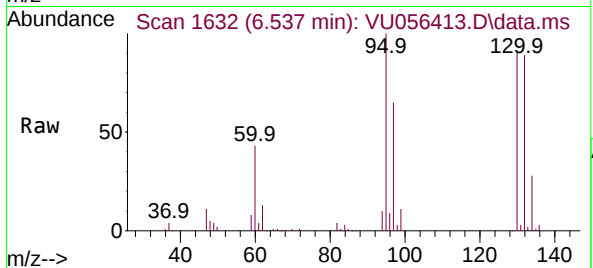
Ion Ratio Lower Upper

95 100

97 64.9 46.5 86.3

132 89.1 62.0 115.2

130 90.8 66.3 123.1



#35

Methylcyclohexane

Concen: 0.867 ug/L

RT: 6.685 min Scan# 1678

Delta R.T. -0.074 min

Lab File: VU056413.D

Acq: 16 Nov 2023 17:33

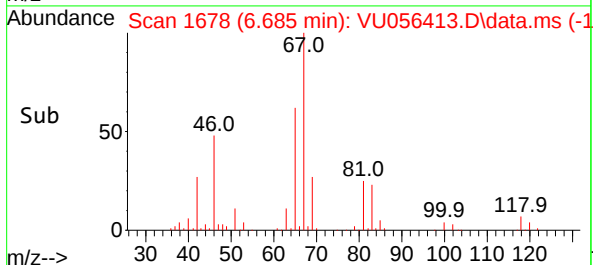
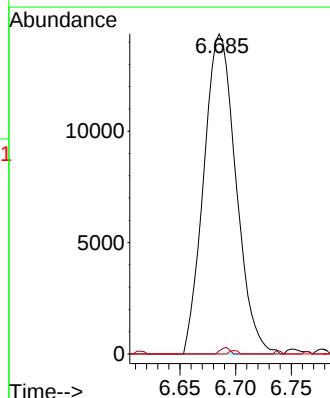
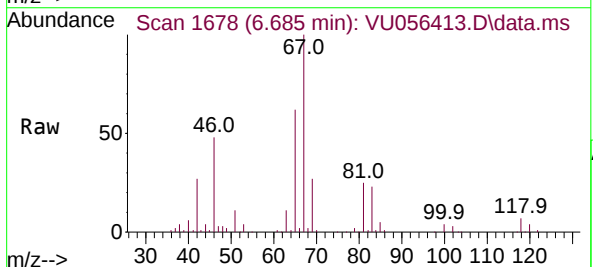
Tgt Ion: 83 Resp: 28889

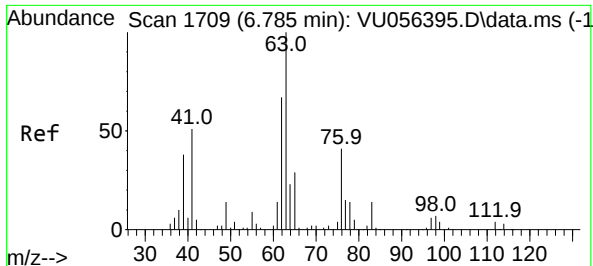
Ion Ratio Lower Upper

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55 0.6 62.9 94.3#

98 0.0 35.3 52.9#

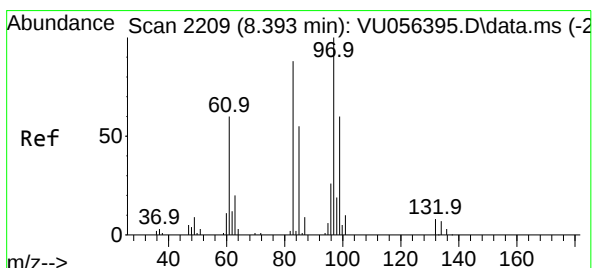
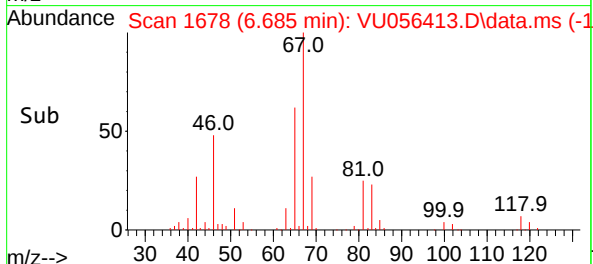
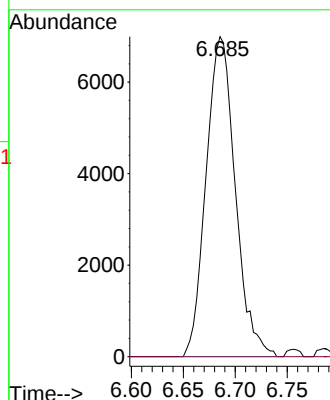
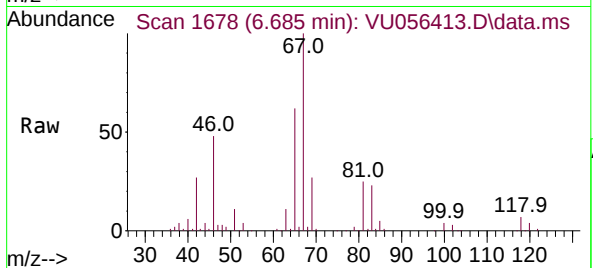




#37
1,2-Dichloropropane
Concen: 0.619 ug/L
RT: 6.685 min Scan# 1
Delta R.T. -0.100 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

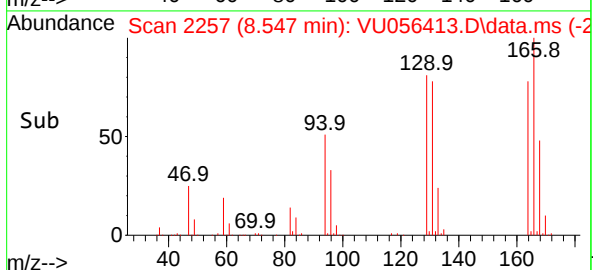
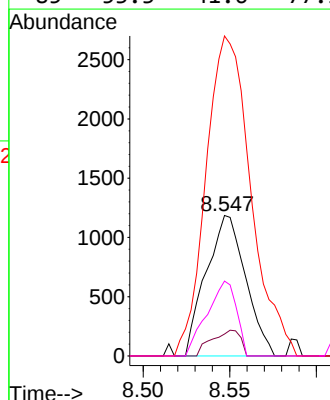
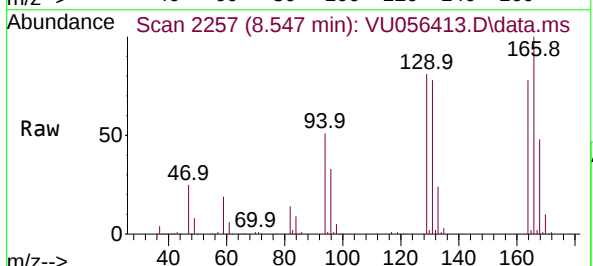
Instrument :
MSVOA_U
ClientSampleId :

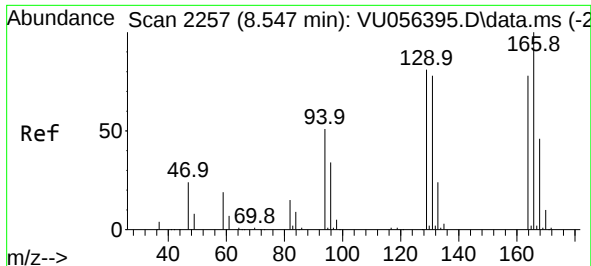
Tgt Ion: 63 Resp: 13666
Ion Ratio Lower Upper
63 100
112 0.2 3.2 4.8#



#45
1,1,2-Trichloroethane
Concen: 0.128 ug/L
RT: 8.547 min Scan# 2257
Delta R.T. 0.154 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

Tgt Ion: 97 Resp: 1882
Ion Ratio Lower Upper
97 100
99 15.6 44.3 82.3#
83 227.8 65.4 121.4#
85 53.3 41.6 77.3





#47

Tetrachloroethene

Concen: 12.316 ug/L

RT: 8.550 min Scan# 21

Delta R.T. 0.003 min

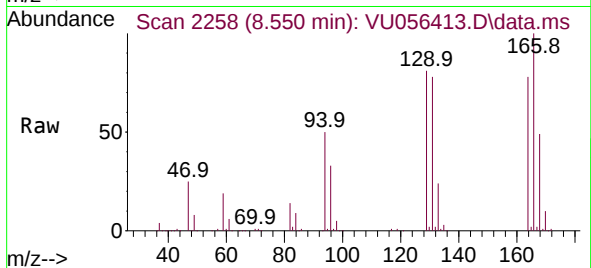
Lab File: VU056413.D

Acq: 16 Nov 2023 17:33

Instrument :

MSVOA_U

ClientSampleId :



Tgt Ion:164 Resp: 191634

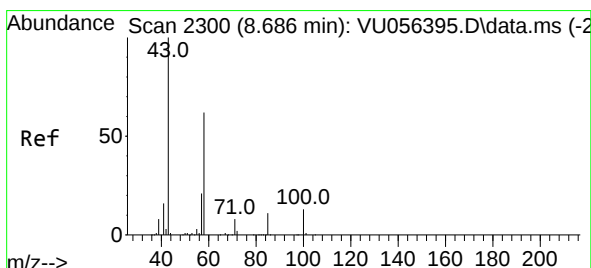
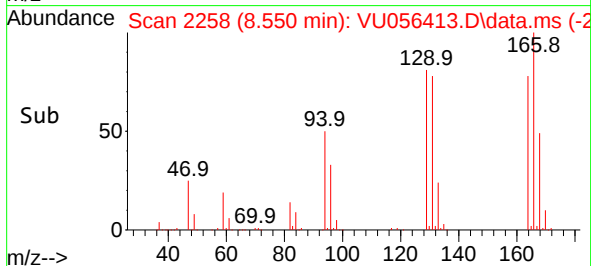
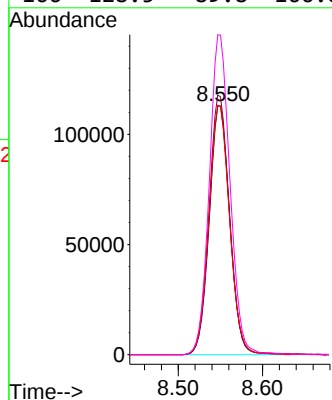
Ion Ratio Lower Upper

164 100

129 103.7 71.0 131.9

131 99.8 70.3 130.7

166 128.5 89.8 166.8



#48

2-Hexanone

Concen: 2.029 ug/L

RT: 8.685 min Scan# 2300

Delta R.T. -0.000 min

Lab File: VU056413.D

Acq: 16 Nov 2023 17:33

Tgt Ion: 43 Resp: 17306

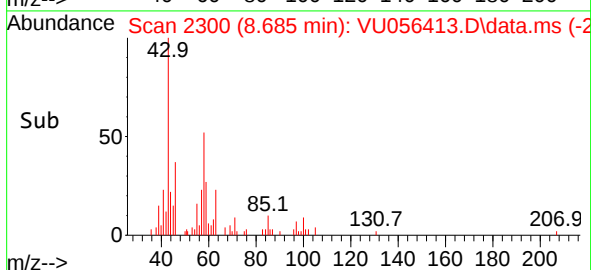
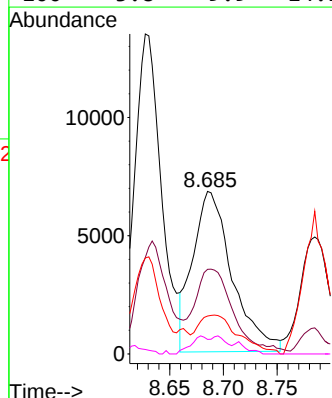
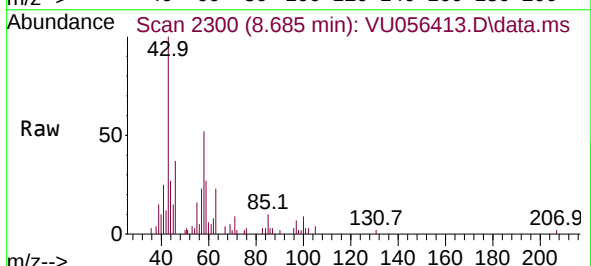
Ion Ratio Lower Upper

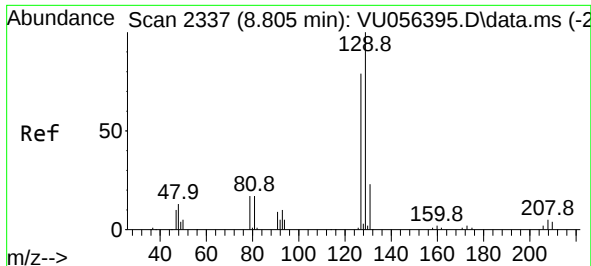
43 100

58 52.7 48.7 73.1

57 25.0 16.8 25.2

100 3.8 9.9 14.9#

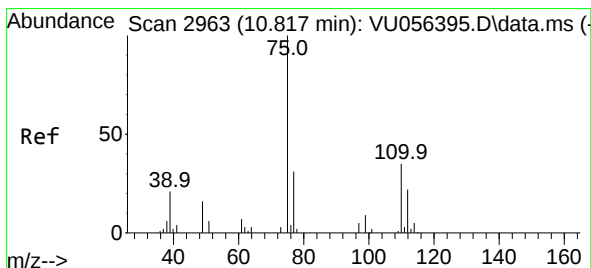
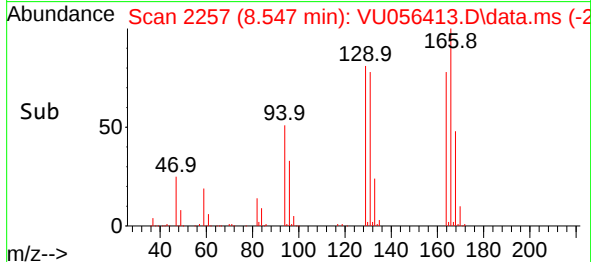
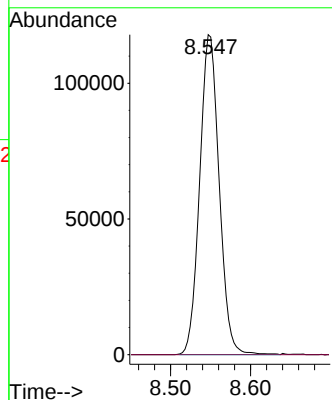
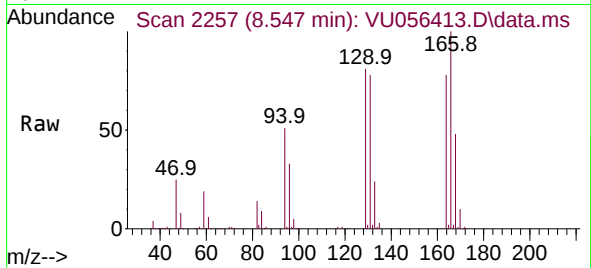




#49
Dibromochloromethane
Concen: 11.953 ug/L
RT: 8.547 min Scan# 21
Delta R.T. -0.258 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

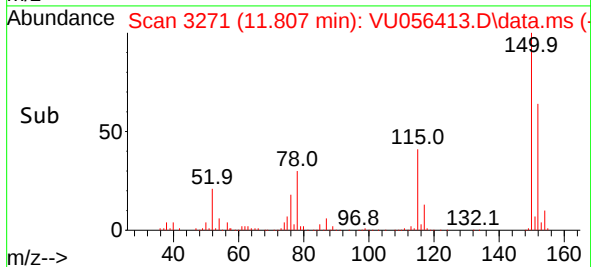
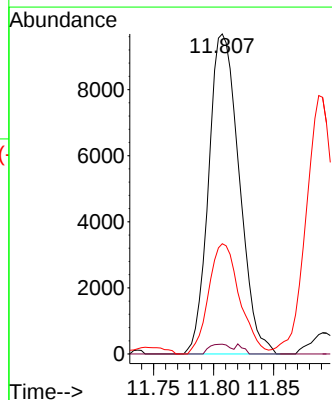
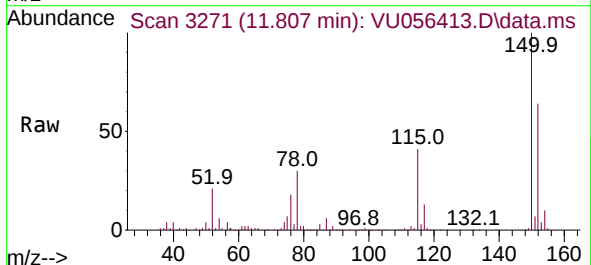
Instrument :
MSVOA_U
ClientSampleId :

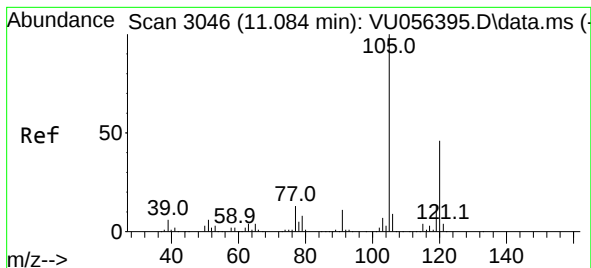
Tgt Ion:129 Resp: 199918
Ion Ratio Lower Upper
129 100
127 0.0 52.9 98.3#



#61
1,2,3-Trichloropropane
Concen: 1.447 ug/L
RT: 11.807 min Scan# 3271
Delta R.T. 0.990 min
Lab File: VU056413.D
Acq: 16 Nov 2023 17:33

Tgt Ion: 75 Resp: 17161
Ion Ratio Lower Upper
75 100
110 2.1 30.4 45.6#
77 34.9 27.0 40.6





#62

1,3,5-Trimethylbenzene

Concen: 1.226 ug/L

RT: 11.891 min Scan# 31

Delta R.T. 0.807 min

Lab File: VU056413.D

Acq: 16 Nov 2023 17:33

Instrument :

MSVOA_U

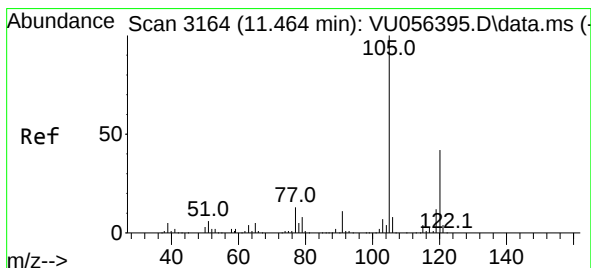
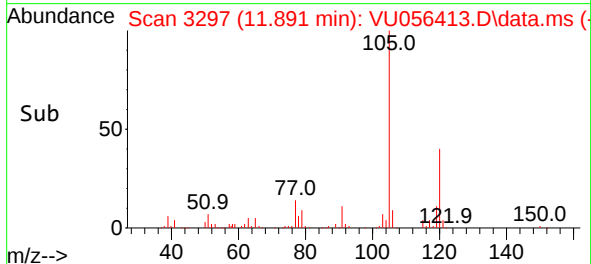
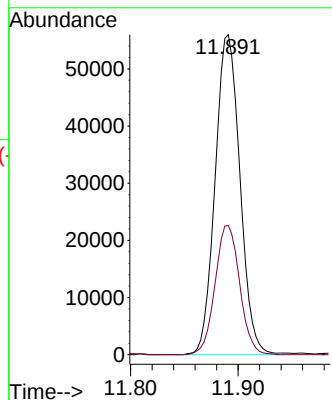
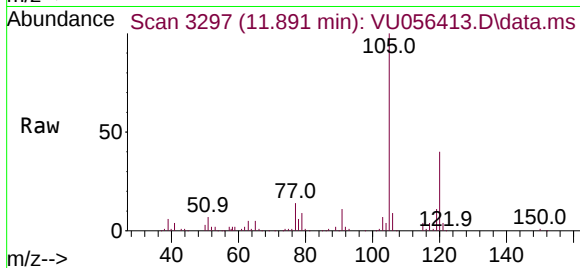
ClientSampleId :

Tgt Ion:105 Resp: 89727

Ion Ratio Lower Upper

105 100

120 40.0 37.2 55.8



#63

1,2,4-Trimethylbenzene

Concen: 1.242 ug/L

RT: 11.891 min Scan# 3297

Delta R.T. 0.427 min

Lab File: VU056413.D

Acq: 16 Nov 2023 17:33

Tgt Ion:105 Resp: 89727

Ion Ratio Lower Upper

105 100

120 40.0 34.0 51.0

