

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU021823\
 Data File : VU053133.D
 Acq On : 18 Feb 2023 14:49
 Operator : JC/MD
 Sample : 01612-06
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 COM88

Quant Time: Feb 19 23:28:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR021023WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sun Feb 19 23:26:18 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	6.247	114	747	5.000	ug/L	# 0.00
28) Chlorobenzene-d5	9.424	117	1058	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.816	152	1380	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.604	65	21	0.587	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	11.800%#
7) Chloroethane-d5	1.977	69	265	7.878	ug/L	0.06
Spiked Amount	5.000	Range	65 - 130	Recovery	=	157.600%#
11) 1,1-Dichloroethene-d2	2.321	65	46	2.802	ug/L	-0.24
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.000%#
20) 2-Butanone-d5	0.000	46	0	0.000	ug/L	
Spiked Amount	50.000	Range	40 - 130	Recovery	=	0.000%#
24) Chloroform-d	0.000	84	0	0.000	ug/L	
Spiked Amount	5.000	Range	70 - 125	Recovery	=	0.000%#
26) 1,2-Dichloroethane-d4	5.704	65	291	7.013	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	140.200%#
32) Benzene-d6	5.723	84	83	0.349	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	7.000%#
36) 1,2-Dichloropropane-d6	6.681	67	42	0.507	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	10.200%#
41) Toluene-d8	7.894	98	1141	5.312	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.200%
43) trans-1,3-Dichloroprop...	0.000	79	0	0.000	ug/L	
Spiked Amount	5.000	Range	55 - 130	Recovery	=	0.000%#
46) 2-Hexanone-d5	8.652	63	99	6.652	ug/L	0.01
Spiked Amount	50.000	Range	45 - 130	Recovery	=	13.300%#
56) 1,1,2,2-Tetrachloroeth...	10.752	84	265	3.726	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	74.600%
66) 1,2-Dichlorobenzene-d4	12.192	152	874	4.239	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.518	50	866	15.155	ug/L	86
5) Vinyl chloride	1.617	62	20	0.318	ug/L #	42
6) Bromomethane	1.862	94	91	2.324	ug/L #	69
12) 1,1-Dichloroethene	2.411	96	21	0.475	ug/L #	1
13) Acetone	2.653	43	865	109.947	ug/L #	1
14) Carbon disulfide	2.794	76	484	3.627	ug/L #	74
15) Methyl Acetate	2.974	43	126	6.560	ug/L #	59
16) Methylene chloride	3.042	84	371	7.257	ug/L	77
21) 2-Butanone	4.714	43	66	5.679	ug/L #	46
22) cis-1,2-Dichloroethene	4.653	96	49	0.928	ug/L #	1
30) Cyclohexane	5.373	56	96	0.760	ug/L #	15
33) Benzene	5.781	78	588	1.929	ug/L	100
34) Trichloroethene	6.540	95	6041	70.420	ug/L	97
35) Methylcyclohexane	6.762	83	107	0.770	ug/L #	1
40) 4-Methyl-2-pentanone	7.794	43	674	15.553	ug/L #	43
42) Toluene	7.968	91	30480	92.038	ug/L	97
44) trans-1,3-Dichloropropene	7.971	75	43	0.394	ug/L #	1
48) 2-Hexanone	8.691	43	2328	73.194	ug/L #	63
52) Ethylbenzene	9.694	91	2545	6.772	ug/L	84

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Quant Title : TRACE VOA SFAM1.0
QLast Update : Sun Feb 19 23:26:18 2023
Response via : Initial Calibration

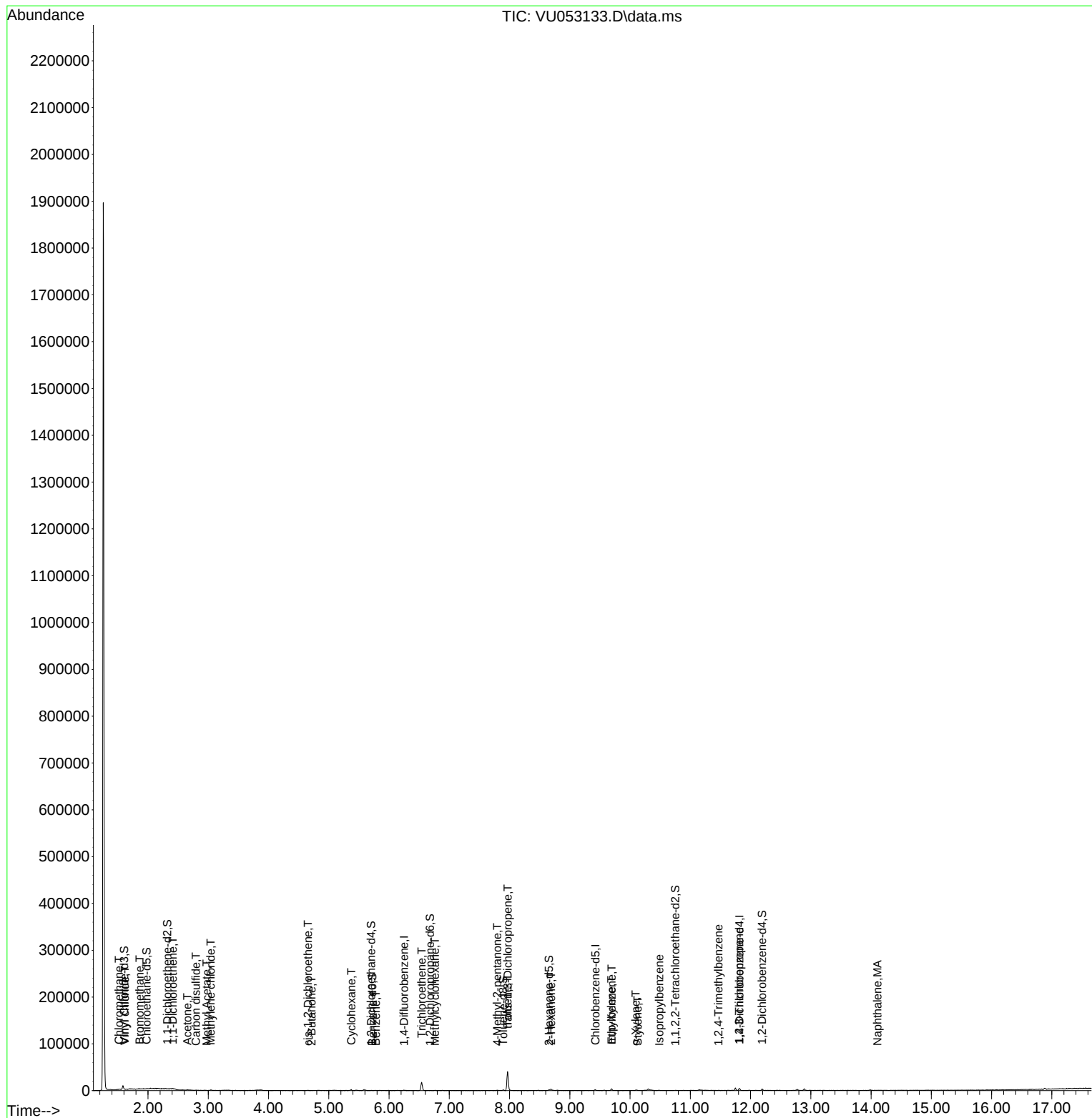
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.691	106	947	6.739	ug/L	88
54) o-Xylene	10.096	106	321	2.356	ug/L	93
55) Styrene	10.125	104	103	0.466	ug/L #	28
60) Isopropylbenzene	10.485	105	521	0.522	ug/L #	67
61) 1,2,3-Trichloropropane	11.813	75	268	2.022	ug/L #	40
63) 1,2,4-Trimethylbenzene	11.466	105	470	0.557	ug/L #	64
71) Naphthalene	14.106	128	293	0.611	ug/L #	69

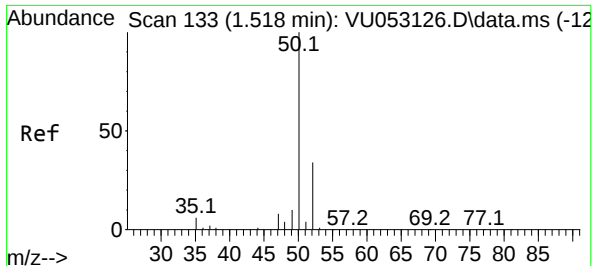
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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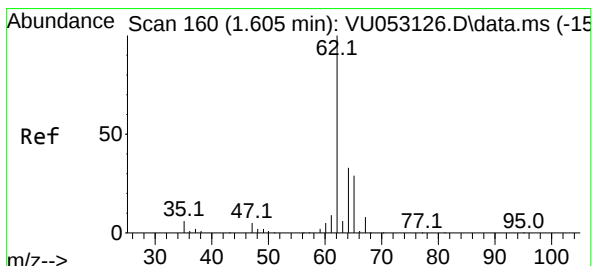
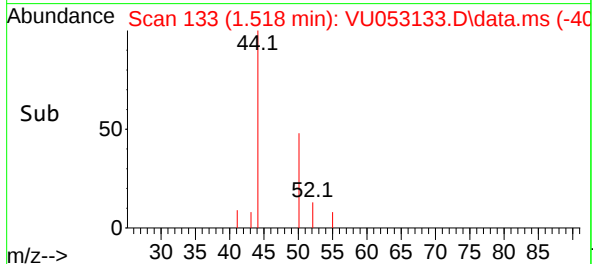
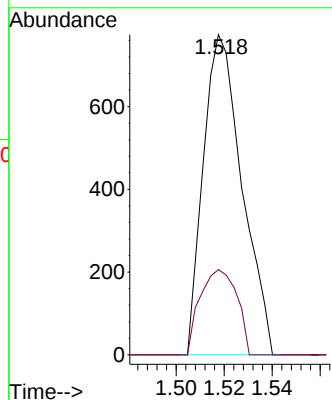
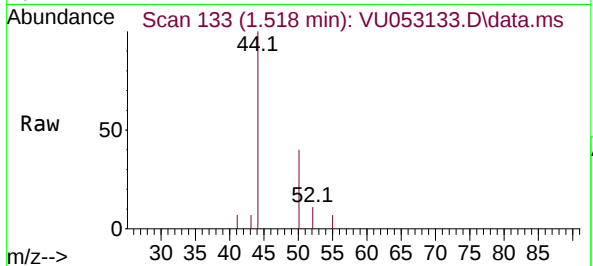




#3
Chloromethane
Concen: 15.155 ug/L
RT: 1.518 min Scan# 11
Delta R.T. -0.000 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

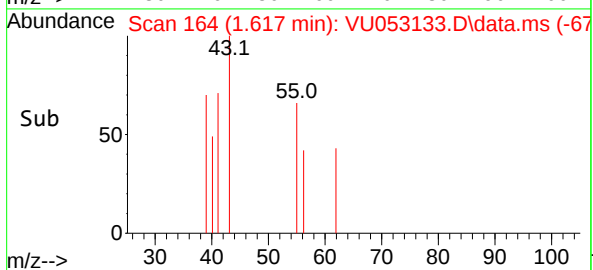
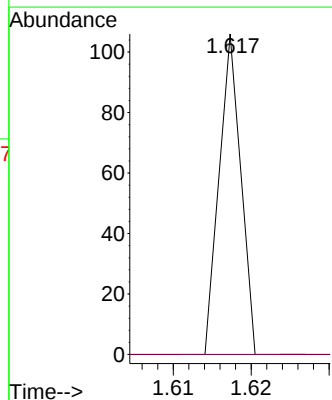
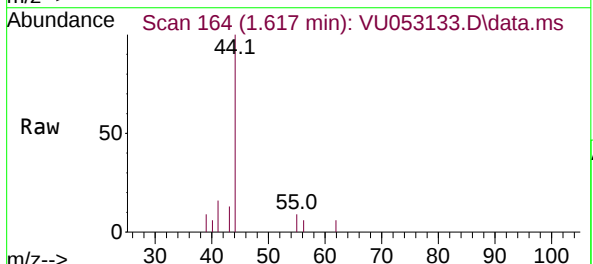
Instrument :
MSVOA_U
ClientSampleId :
COM88

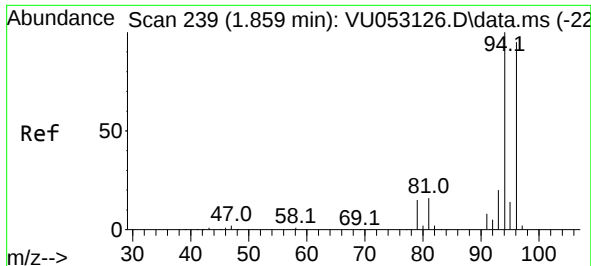
Tgt Ion: 50 Resp: 866
Ion Ratio Lower Upper
50 100
52 26.6 24.1 44.7



#5
Vinyl chloride
Concen: 0.318 ug/L
RT: 1.617 min Scan# 164
Delta R.T. 0.013 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Tgt Ion: 62 Resp: 20
Ion Ratio Lower Upper
62 100
64 0.0 22.5 41.9#

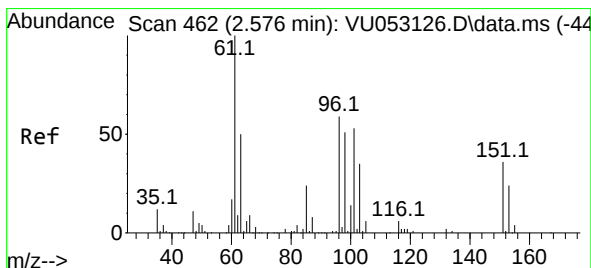
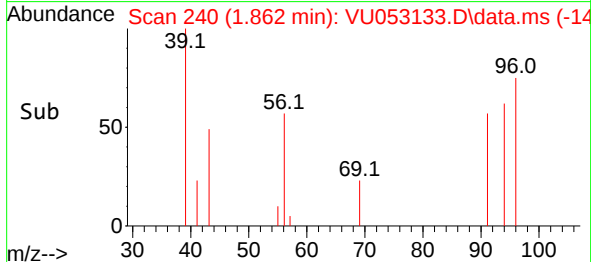
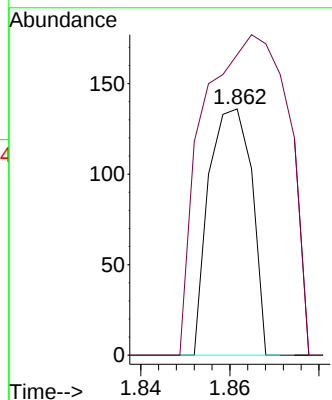
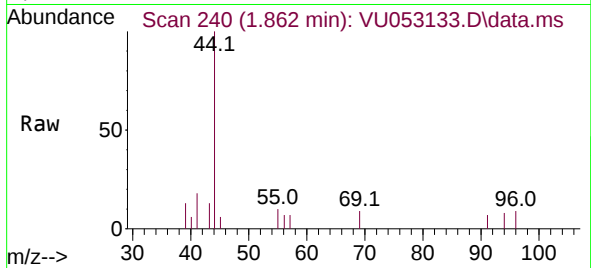




#6
Bromomethane
Concen: 2.324 ug/L
RT: 1.862 min Scan# 24
Delta R.T. 0.003 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

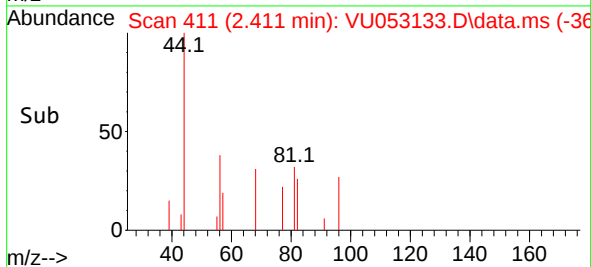
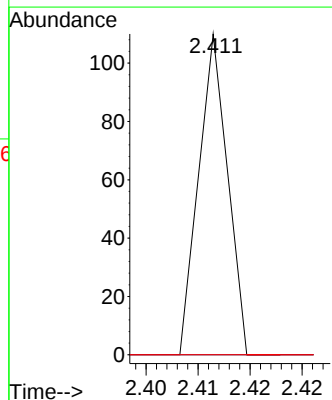
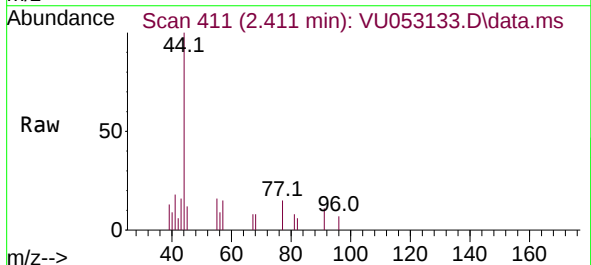
Instrument :
MSVOA_U
ClientSampleId :
COM88

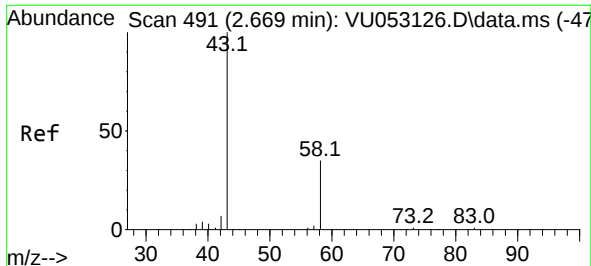
Tgt Ion: 94 Resp: 91
Ion Ratio Lower Upper
94 100
96 122.1 64.8 120.3#



#12
1,1-Dichloroethene
Concen: 0.475 ug/L
RT: 2.411 min Scan# 411
Delta R.T. -0.164 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Tgt Ion: 96 Resp: 21
Ion Ratio Lower Upper
96 100
61 0.0 115.1 213.7#
63 0.0 63.6 118.0#





#13

Acetone

Concen: 109.947 ug/L

RT: 2.653 min Scan# 41

Delta R.T. -0.016 min

Lab File: VU053133.D

Acq: 18 Feb 2023 14:49

Instrument :

MSVOA_U

ClientSampleId :

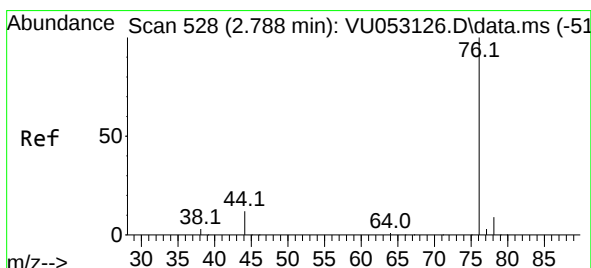
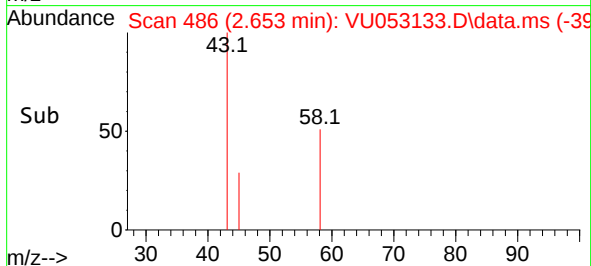
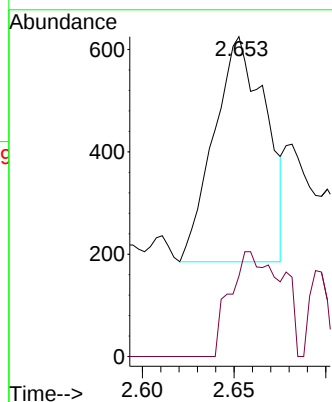
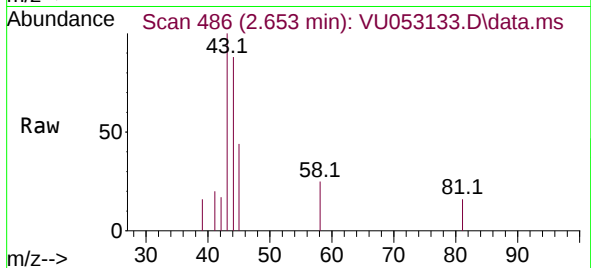
COM88

Tgt Ion: 43 Resp: 865

Ion Ratio Lower Upper

43 100

58 46.2 0.0 19.6#



#14

Carbon disulfide

Concen: 3.627 ug/L

RT: 2.794 min Scan# 530

Delta R.T. 0.006 min

Lab File: VU053133.D

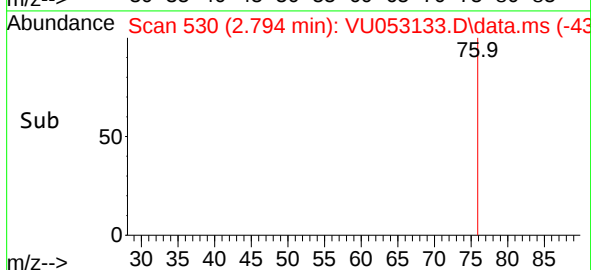
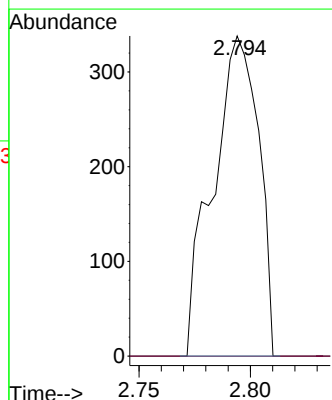
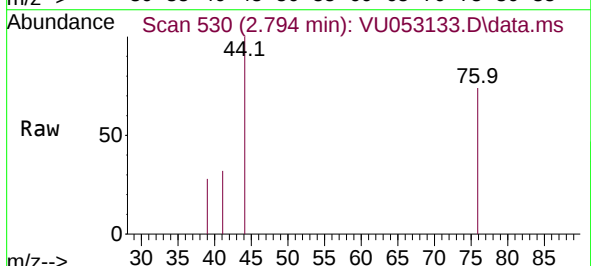
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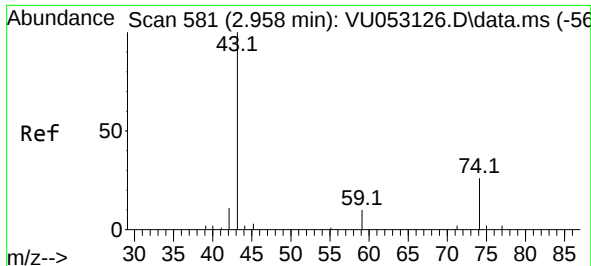
Tgt Ion: 76 Resp: 484

Ion Ratio Lower Upper

76 100

78 0.0 7.5 11.3#





#15

Methyl Acetate

Concen: 6.560 ug/L

RT: 2.974 min Scan# 586

Delta R.T. 0.016 min

Lab File: VU053133.D

Acq: 18 Feb 2023 14:49

Instrument :

MSVOA_U

ClientSampleId :

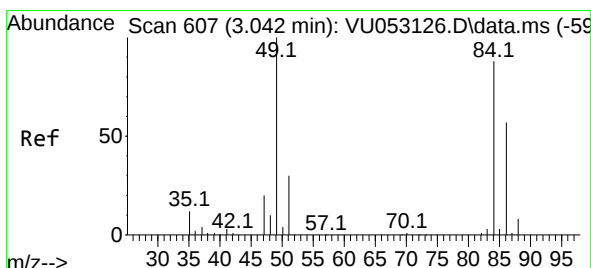
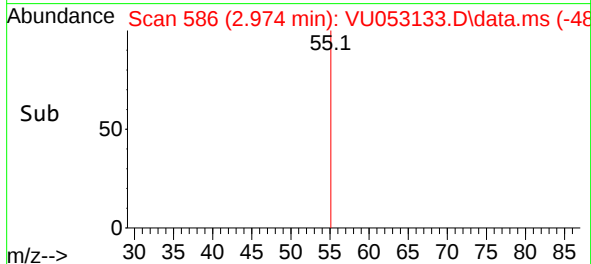
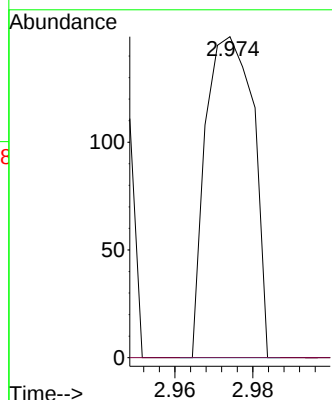
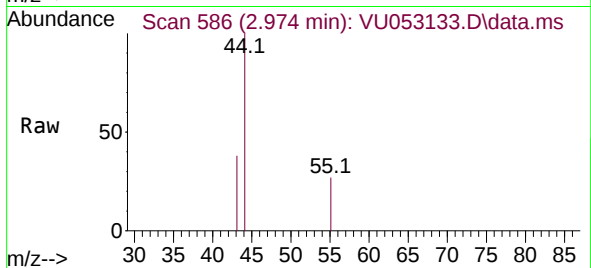
COM88

Tgt Ion: 43 Resp: 126

Ion Ratio Lower Upper

43 100

74 0.0 14.3 21.5#



#16

Methylene chloride

Concen: 7.257 ug/L

RT: 3.042 min Scan# 607

Delta R.T. -0.000 min

Lab File: VU053133.D

Acq: 18 Feb 2023 14:49

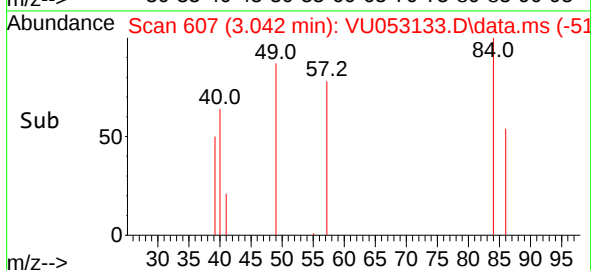
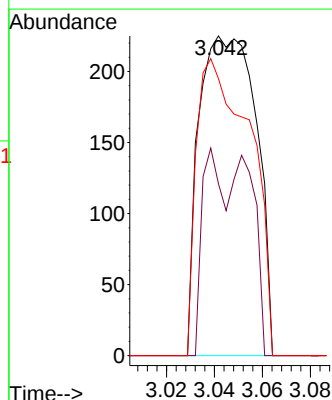
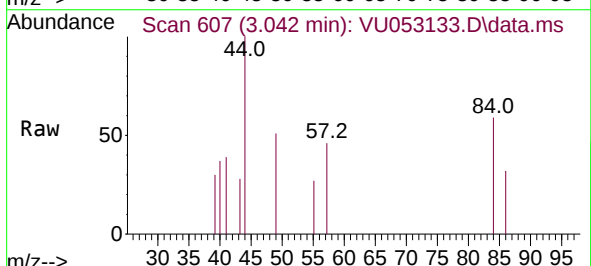
Tgt Ion: 84 Resp: 371

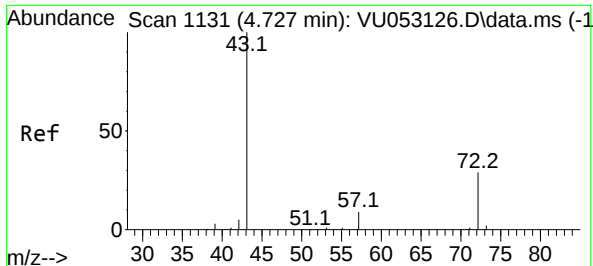
Ion Ratio Lower Upper

84 100

86 53.8 44.9 83.3

49 86.7 82.6 153.4

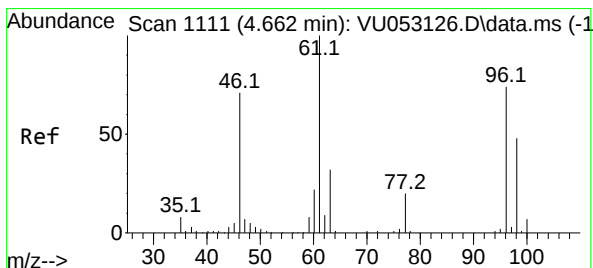
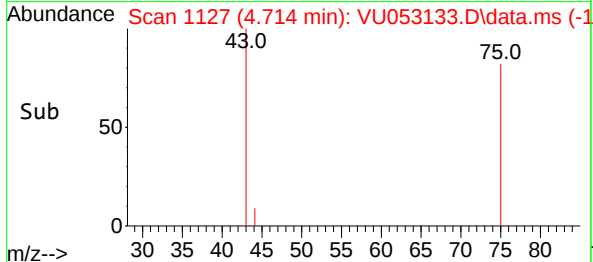
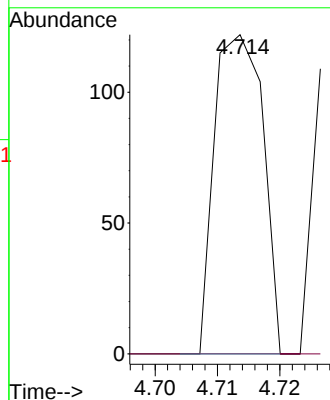
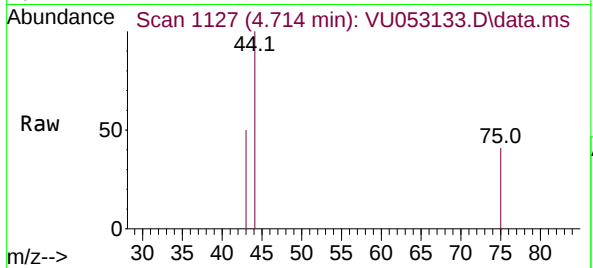




#21
2-Butanone
Concen: 5.679 ug/L
RT: 4.714 min Scan# 1107
Delta R.T. -0.013 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

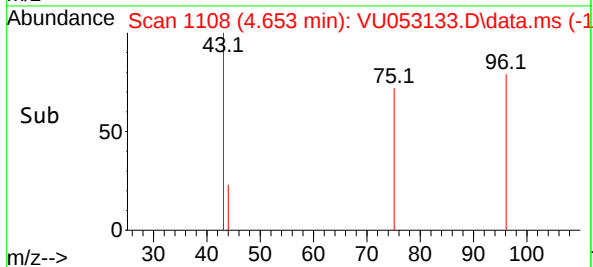
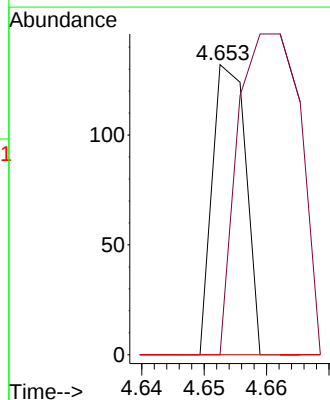
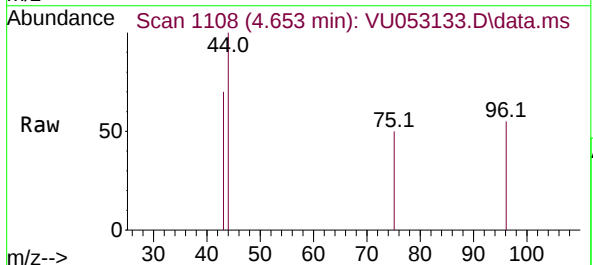
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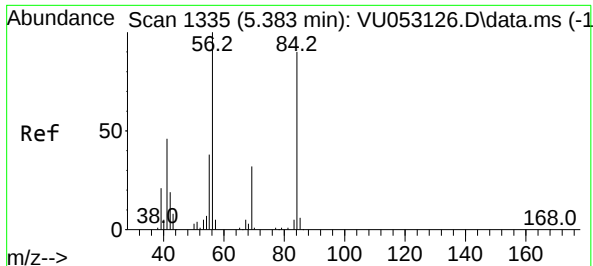
Tgt Ion: 43 Resp: 66
Ion Ratio Lower Upper
43 100
72 0.0 14.5 43.5#



#22
cis-1,2-Dichloroethene
Concen: 0.928 ug/L
RT: 4.653 min Scan# 1108
Delta R.T. -0.010 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

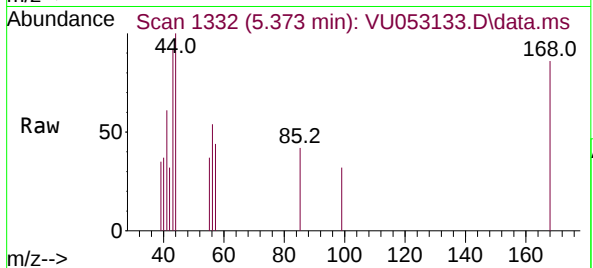
Tgt Ion: 96 Resp: 49
Ion Ratio Lower Upper
96 100
61 0.0 90.9 168.9#
98 0.0 47.0 87.4#



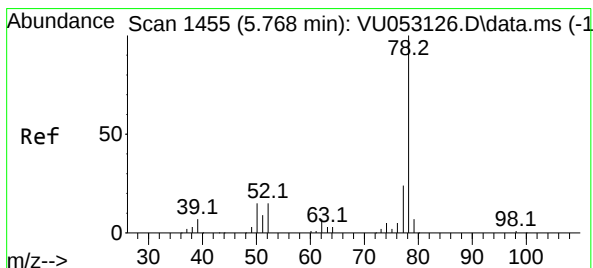
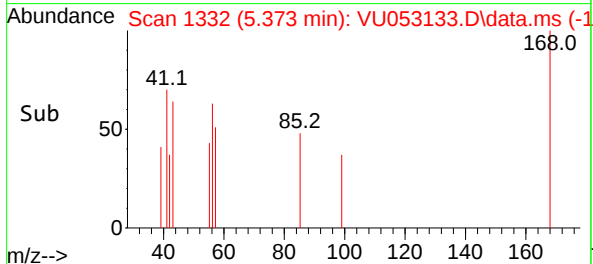
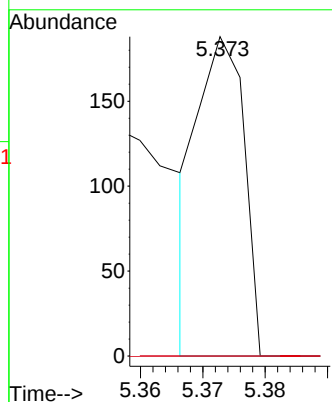


#30
Cyclohexane
Concen: 0.760 ug/L
RT: 5.373 min Scan# 11
Delta R.T. -0.010 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Instrument :
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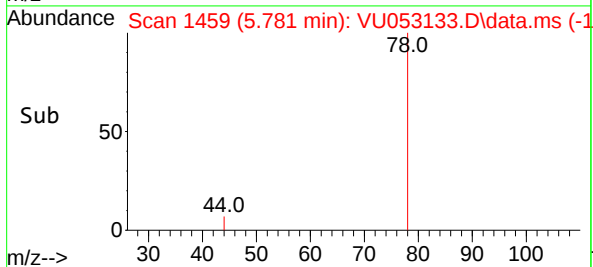
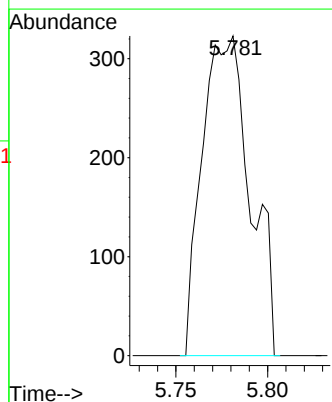
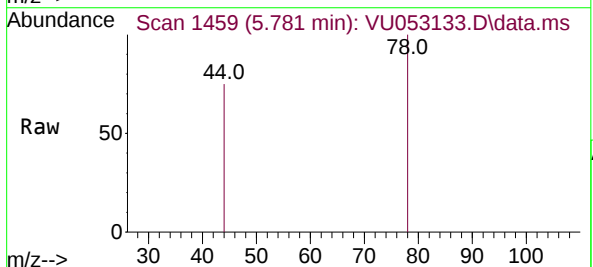


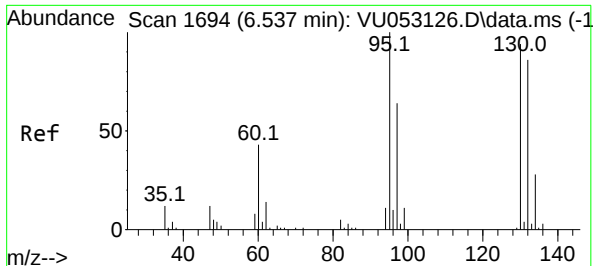
Tgt Ion: 56 Resp: 96
Ion Ratio Lower Upper
56 100
69 0.0 27.0 40.6#
84 0.0 70.8 106.2#



#33
Benzene
Concen: 1.929 ug/L
RT: 5.781 min Scan# 1459
Delta R.T. 0.013 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Tgt Ion: 78 Resp: 588



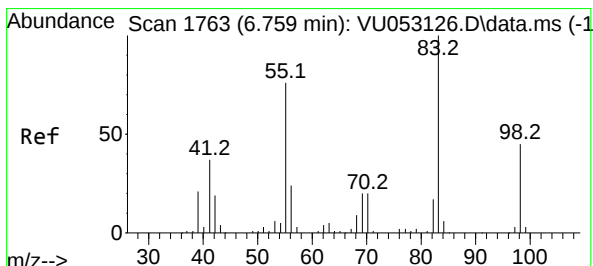
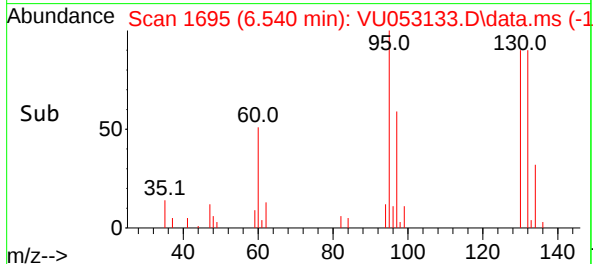
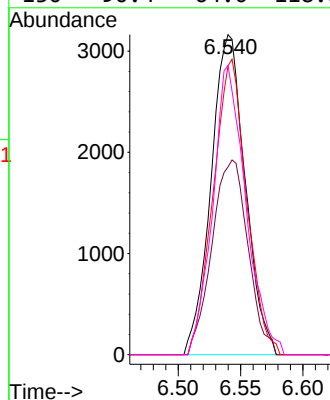
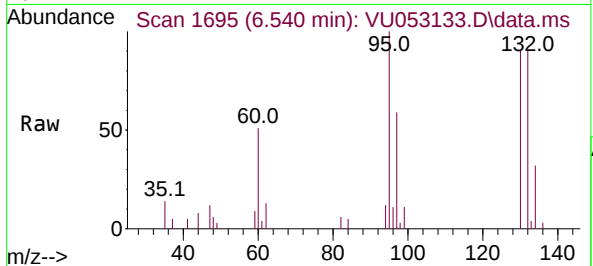


#34
Trichloroethene
Concen: 70.420 ug/L
RT: 6.540 min Scan# 1
Delta R.T. 0.003 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Instrument :
MSVOA_U
ClientSampleId :
COM88

Tgt Ion: 95 Resp: 6041

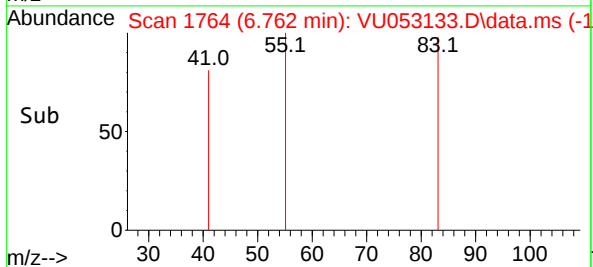
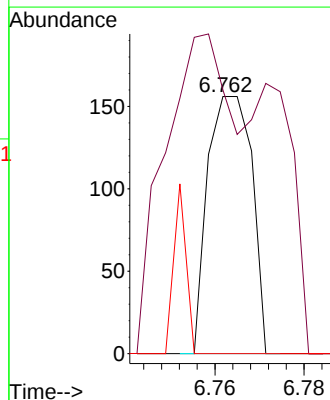
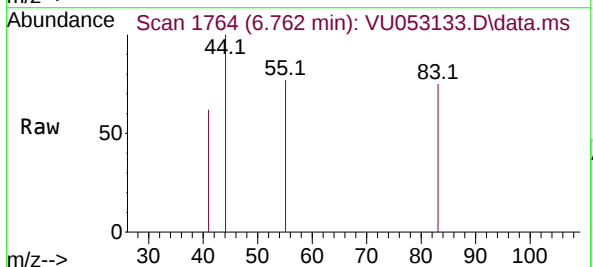
Ion	Ratio	Lower	Upper
95	100		
97	58.7	44.7	82.9
132	90.3	62.3	115.7
130	90.4	64.0	118.8

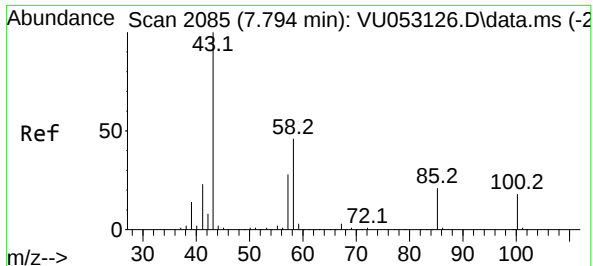


#35
Methylcyclohexane
Concen: 0.770 ug/L
RT: 6.762 min Scan# 1764
Delta R.T. 0.003 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Tgt Ion: 83 Resp: 107

Ion	Ratio	Lower	Upper
83	100		
55	190.7	57.9	86.9#
98	18.7	36.4	54.6#





#40

4-Methyl-2-pentanone

Concen: 15.553 ug/L

RT: 7.794 min Scan# 2085

Delta R.T. -0.000 min

Lab File: VU053133.D

Acq: 18 Feb 2023 14:49

Instrument :

MSVOA_U

ClientSampleId :

COM88

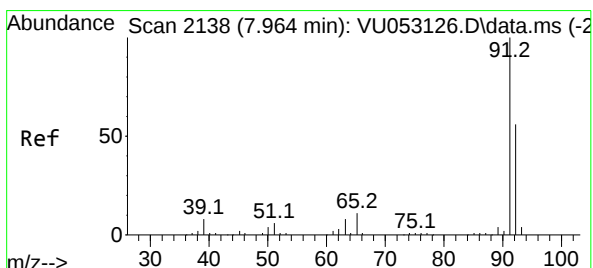
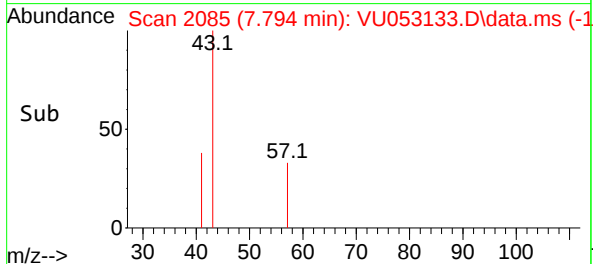
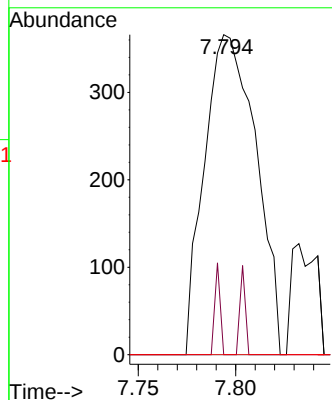
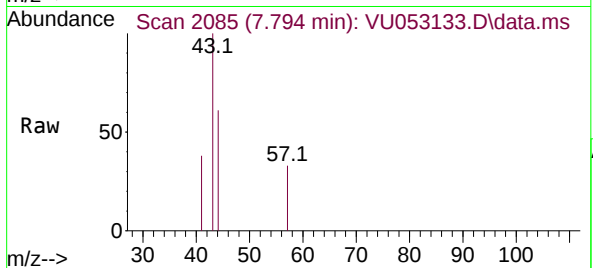
Tgt Ion: 43 Resp: 674

Ion Ratio Lower Upper

43 100

58 3.0 35.9 53.9#

100 0.0 13.8 20.6#



#42

Toluene

Concen: 92.038 ug/L

RT: 7.968 min Scan# 2139

Delta R.T. 0.003 min

Lab File: VU053133.D

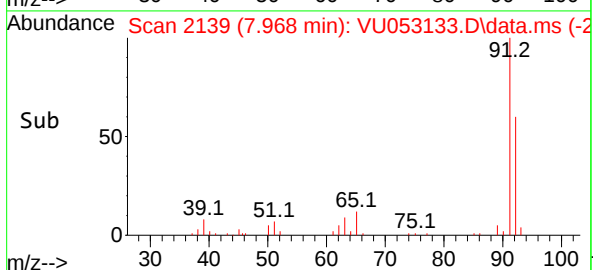
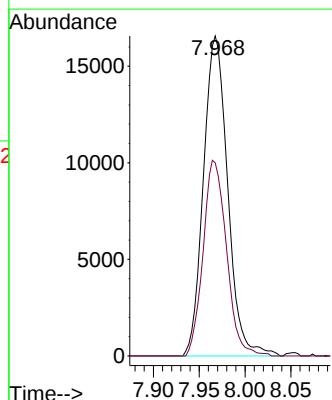
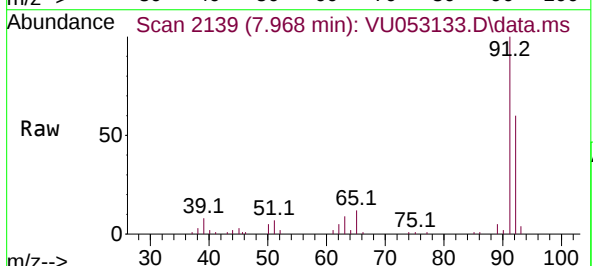
Acq: 18 Feb 2023 14:49

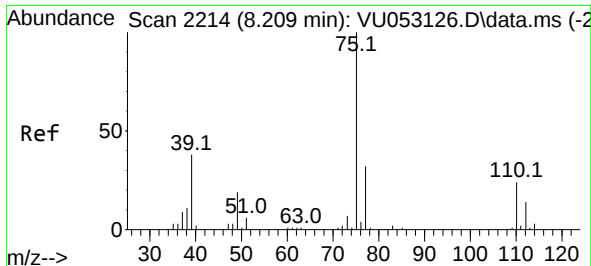
Tgt Ion: 91 Resp: 30480

Ion Ratio Lower Upper

91 100

92 60.3 40.5 75.3

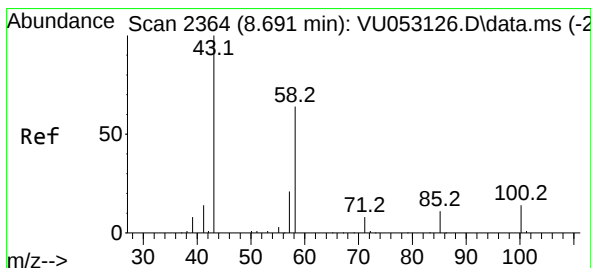
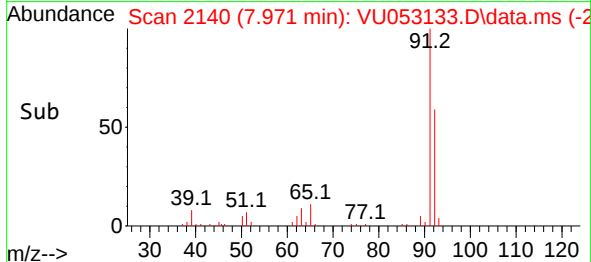
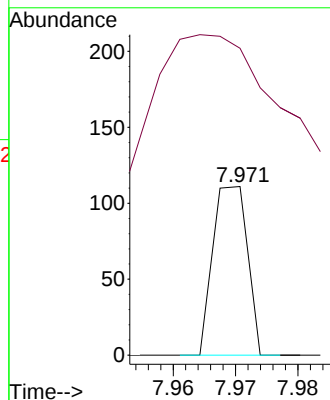
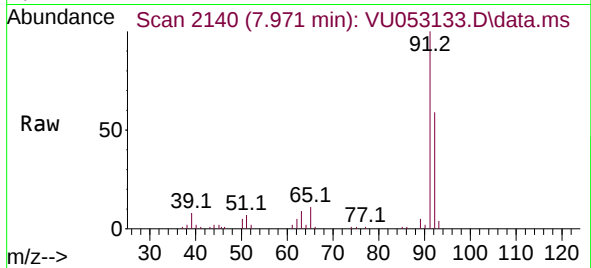




#44
trans-1,3-Dichloropropene
Concen: 0.394 ug/L
RT: 7.971 min Scan# 2140
Delta R.T. -0.238 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

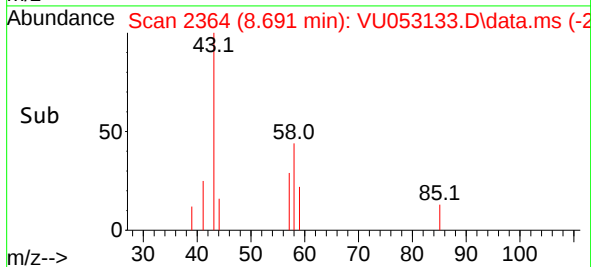
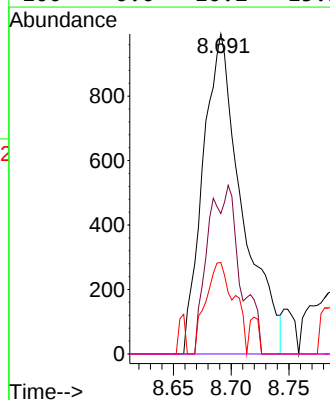
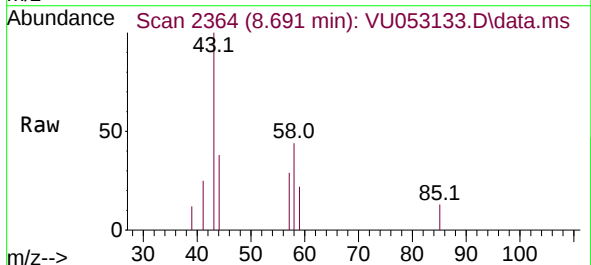
Instrument :
MSVOA_U
ClientSampleId :
COM88

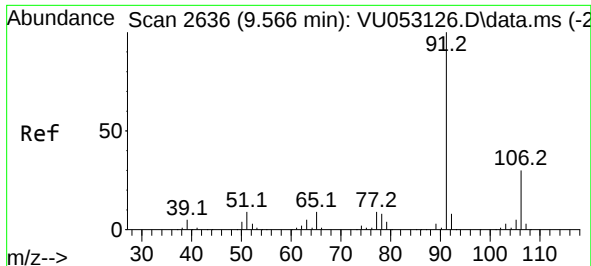
Tgt Ion: 75 Resp: 43
Ion Ratio Lower Upper
75 100
77 182.0 22.3 41.3#



#48
2-Hexanone
Concen: 73.194 ug/L
RT: 8.691 min Scan# 2364
Delta R.T. -0.000 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Tgt Ion: 43 Resp: 2328
Ion Ratio Lower Upper
43 100
58 23.8 50.3 75.5#
57 20.8 17.4 26.0
100 0.0 10.2 15.2#





#52

Ethylbenzene

Concen: 6.772 ug/L

RT: 9.694 min Scan# 2

Delta R.T. 0.128 min

Lab File: VU053133.D

Acq: 18 Feb 2023 14:49

Instrument :

MSVOA_U

ClientSampleId :

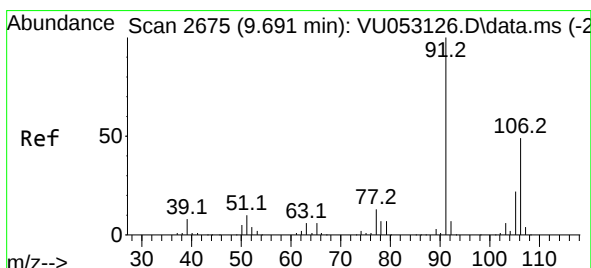
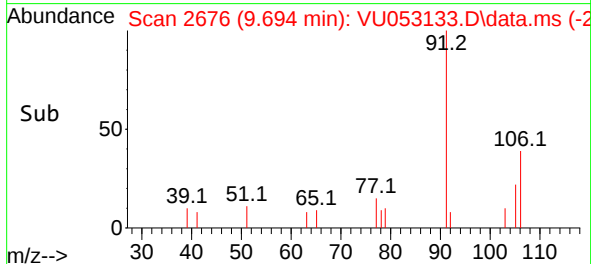
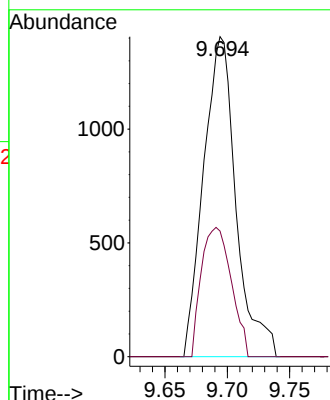
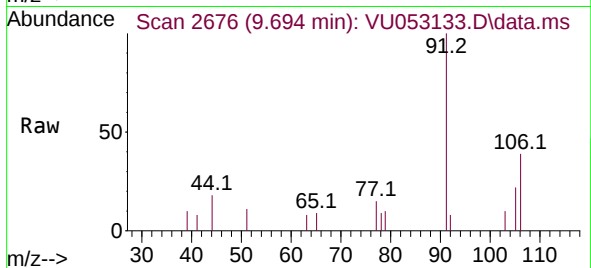
COM88

Tgt Ion: 91 Resp: 2545

Ion Ratio Lower Upper

91 100

106 39.3 21.4 39.8



#53

m,p-Xylene

Concen: 6.739 ug/L

RT: 9.691 min Scan# 2675

Delta R.T. -0.000 min

Lab File: VU053133.D

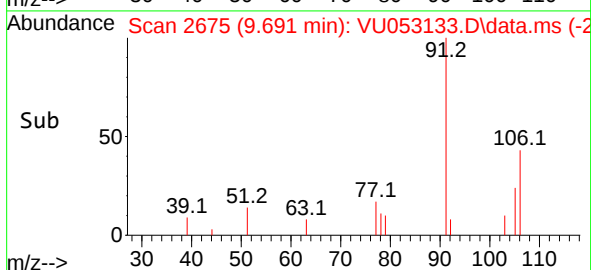
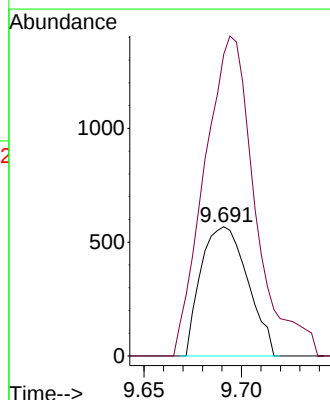
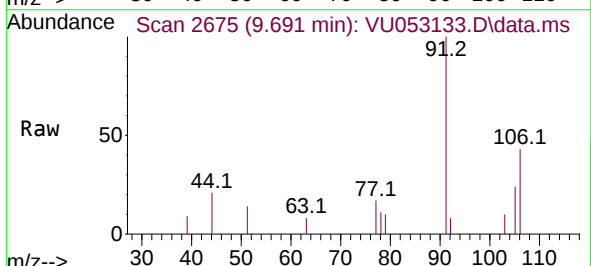
Acq: 18 Feb 2023 14:49

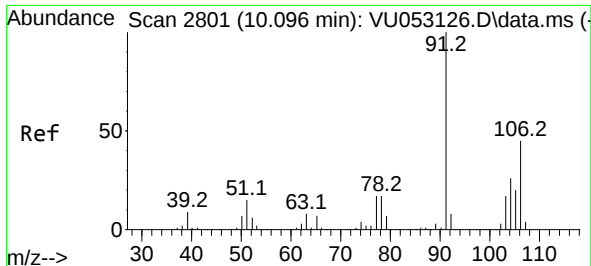
Tgt Ion: 106 Resp: 947

Ion Ratio Lower Upper

106 100

91 233.3 149.9 278.3

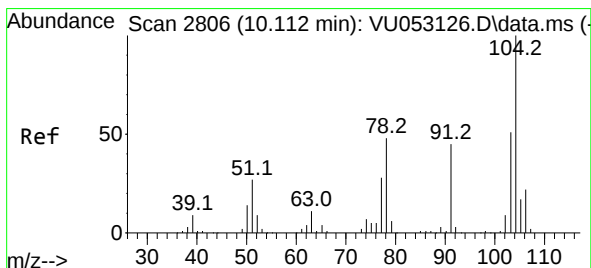
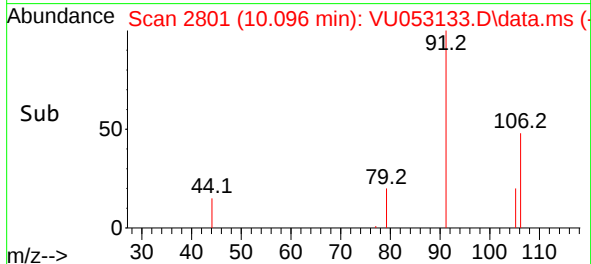
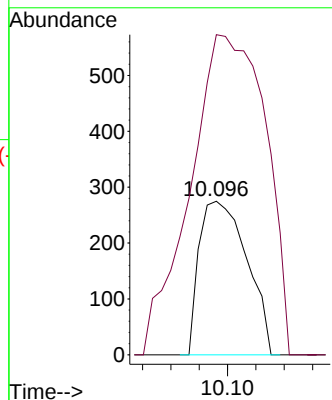
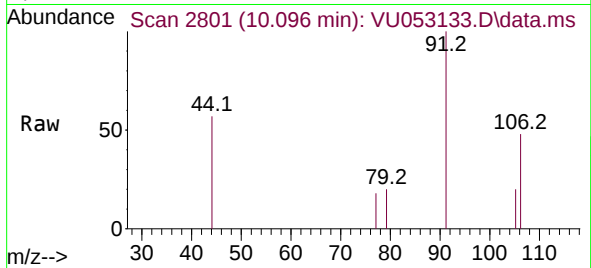




#54
o-Xylene
Concen: 2.356 ug/L
RT: 10.096 min Scan# 2801
Delta R.T. -0.000 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

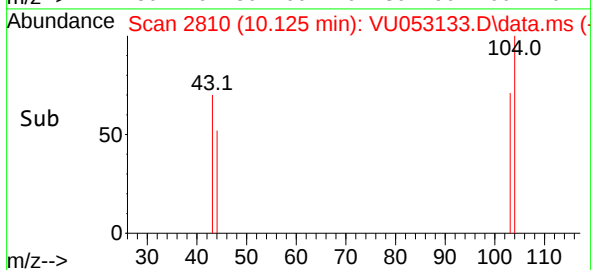
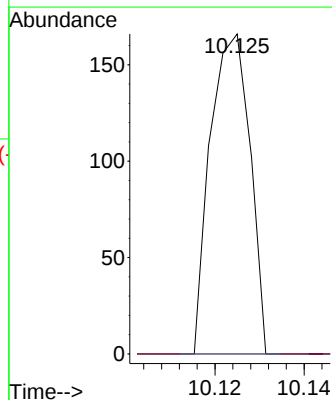
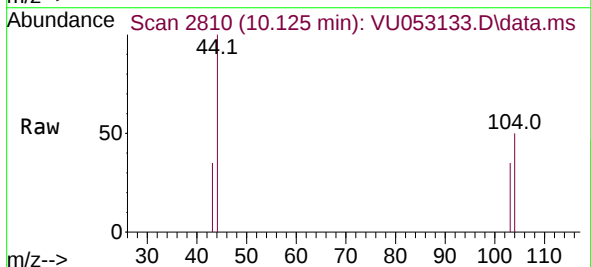
Instrument :
MSVOA_U
ClientSampleId :
COM88

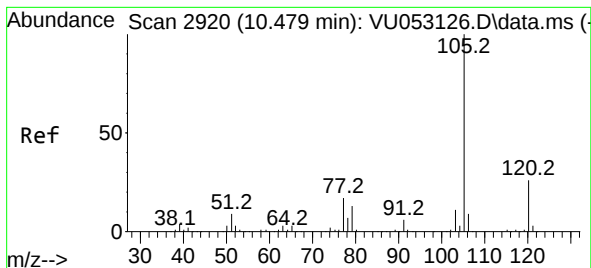
Tgt Ion:106 Resp: 321
Ion Ratio Lower Upper
106 100
91 208.4 153.6 285.2



#55
Styrene
Concen: 0.466 ug/L
RT: 10.125 min Scan# 2810
Delta R.T. 0.013 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Tgt Ion:104 Resp: 103
Ion Ratio Lower Upper
104 100
78 0.0 34.3 63.7#





#60

Isopropylbenzene

Concen: 0.522 ug/L

RT: 10.485 min Scan# 2920

Delta R.T. 0.006 min

Lab File: VU053133.D

Acq: 18 Feb 2023 14:49

Instrument :

MSVOA_U

ClientSampleId :

COM88

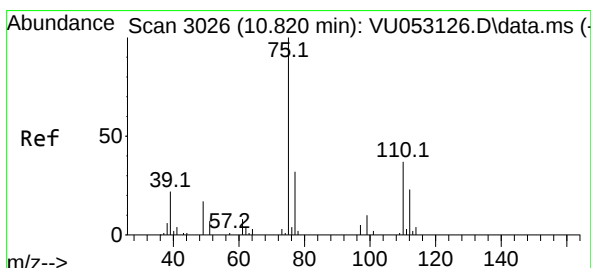
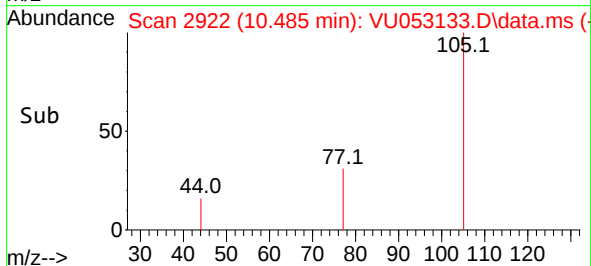
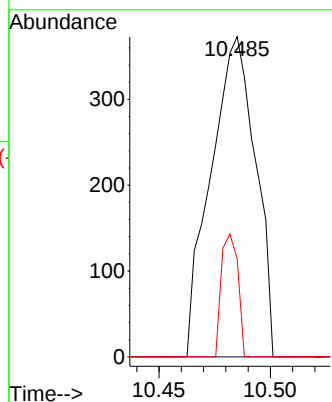
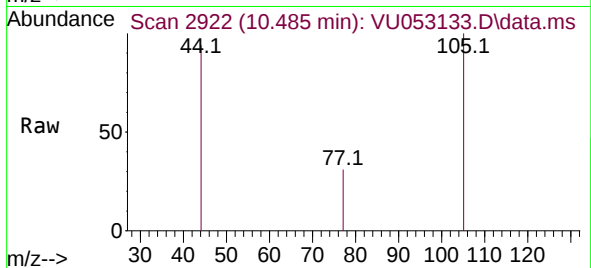
Tgt Ion:105 Resp: 521

Ion Ratio Lower Upper

105 100

120 0.0 20.6 31.0#

77 14.2 13.0 19.6



#61

1,2,3-Trichloropropane

Concen: 2.022 ug/L

RT: 11.813 min Scan# 3335

Delta R.T. 0.993 min

Lab File: VU053133.D

Acq: 18 Feb 2023 14:49

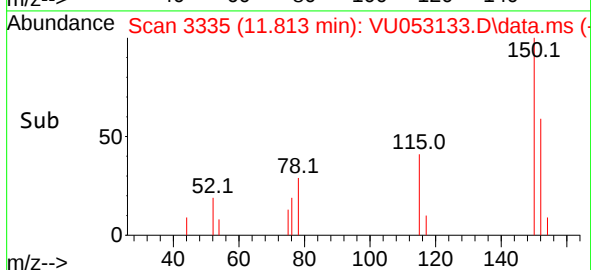
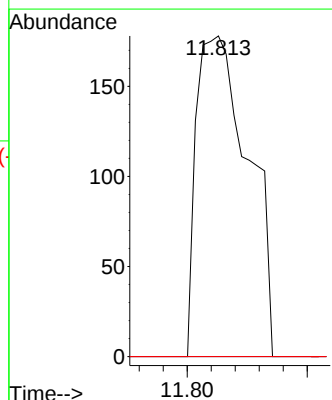
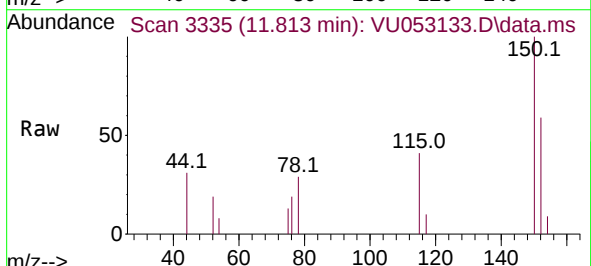
Tgt Ion: 75 Resp: 268

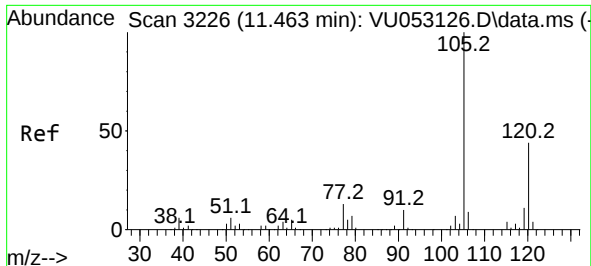
Ion Ratio Lower Upper

75 100

110 0.0 28.6 42.8#

77 0.0 27.6 41.4#

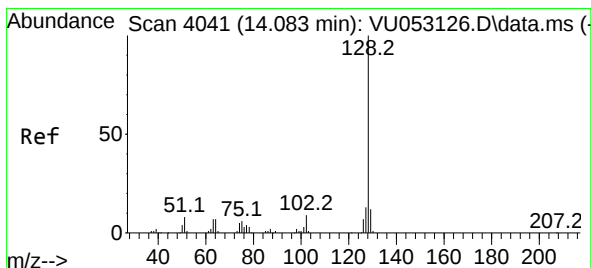
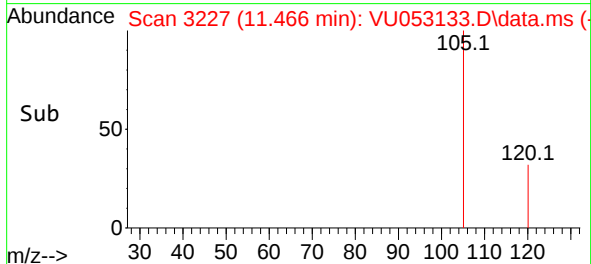
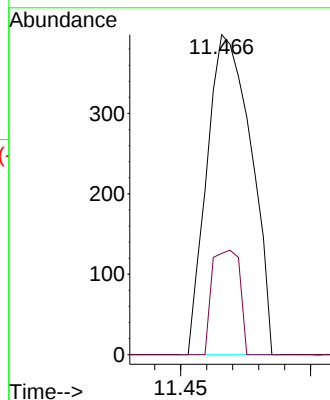
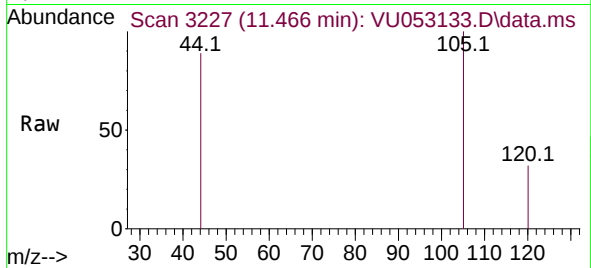




#63
1,2,4-Trimethylbenzene
Concen: 0.557 ug/L
RT: 11.466 min Scan# 31
Delta R.T. 0.003 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Instrument :
MSVOA_U
ClientSampleId :
COM88

Tgt Ion:105 Resp: 470
Ion Ratio Lower Upper
105 100
120 20.4 34.7 52.1#



#71
Naphthalene
Concen: 0.611 ug/L
RT: 14.106 min Scan# 4048
Delta R.T. 0.022 min
Lab File: VU053133.D
Acq: 18 Feb 2023 14:49

Tgt Ion:128 Resp: 293
Ion Ratio Lower Upper
128 100
129 0.0 8.8 13.2#
127 0.0 10.2 15.4#

