

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111921\
 Data File : VW023644.D
 Acq On : 19 Nov 2021 15:28
 Operator : SY/MD
 Sample : M4706-14
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 22 01:48:35 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Mon Nov 22 01:44:25 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	104957	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	104033	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	46893	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	28402	4.320	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.400%
7) Chloroethane-d5	1.568	69	24821	4.632	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.600%
11) 1,1-Dichloroethene-d2	2.108	63	40784	3.313	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	66.200%
20) 2-Butanone-d5	3.905	46	32208	28.433	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	56.860%
24) Chloroform-d	4.349	84	61837	4.413	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.200%
26) 1,2-Dichloroethane-d4	5.034	65	30279	4.805	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	96.200%
32) Benzene-d6	5.053	84	112664	4.221	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.400%
36) 1,2-Dichloropropane-d6	6.072	67	35385	4.503	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.000%
41) Toluene-d8	7.317	98	94407	3.774	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.400%
43) trans-1,3-Dichloroprop...	7.625	79	11746	3.942	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.800%
46) 2-Hexanone-d5	8.091	63	45614	41.610	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.220%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	24680	4.368	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	38156	4.887	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	6791	0.780	ug/L	95
5) Vinyl chloride	1.304	62	163	0.019	ug/L #	1
6) Bromomethane	1.532	94	90	0.016	ug/L #	3
8) Chloroethane	1.587	64	317	0.063	ug/L #	43
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	320	0.049	ug/L #	18
12) 1,1-Dichloroethene	2.105	96	451	0.072	ug/L #	1
13) Acetone	2.191	43	1240	1.791	ug/L	65
14) Carbon disulfide	2.291	76	342	0.014	ug/L #	75
15) Methyl Acetate	2.423	43	121	0.062	ug/L #	47
16) Methylene chloride	2.510	84	451	0.049	ug/L	77
21) 2-Butanone	3.998	43	210	0.188	ug/L #	51
25) Chloroform	4.371	83	11922	0.861	ug/L	94
27) 1,2-Dichloroethane	5.056	62	742	0.101	ug/L #	72
33) Benzene	5.059	78	800	0.028	ug/L	100
35) Methylcyclohexane	6.069	83	8921	0.731	ug/L #	17
37) 1,2-Dichloropropane	6.069	63	4330	0.638	ug/L #	83
38) Bromodichloromethane	6.513	83	2471	0.272	ug/L #	88
39) cis-1,3-Dichloropropene	6.989	75	810	0.083	ug/L #	55
40) 4-Methyl-2-pentanone	7.243	43	100	0.032	ug/L #	44

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

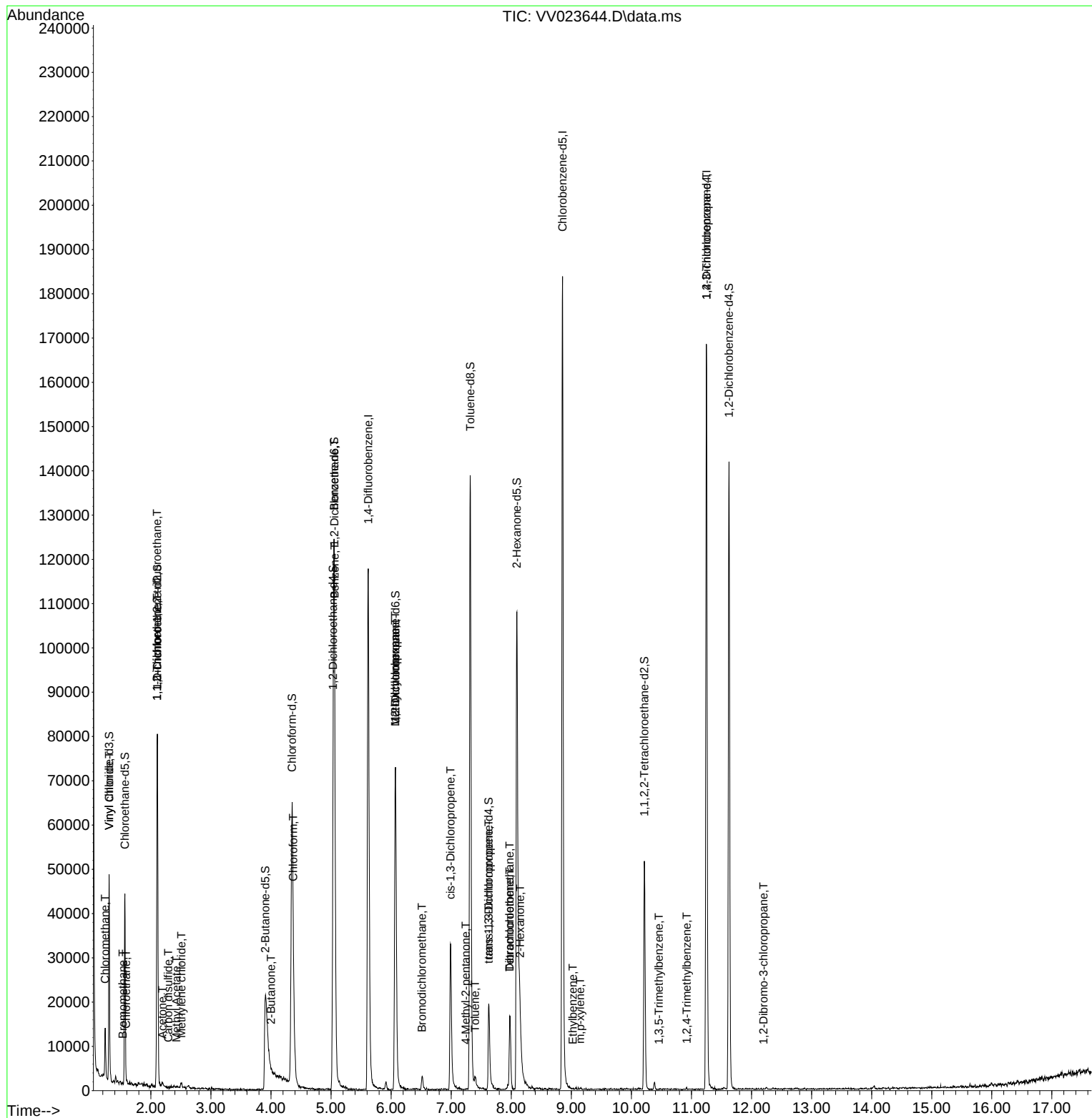
42) Toluene	7.400	91	1910	0.061	ug/L	90
44) trans-1,3-Dichloropropene	7.622	75	476	0.059	ug/L #	78
47) Tetrachloroethene	7.976	164	3926	0.586	ug/L	90
48) 2-Hexanone	8.146	43	4127	1.871	ug/L #	82
49) Dibromochloromethane	7.976	129	3725	0.603	ug/L #	10
52) Ethylbenzene	9.027	91	69	0.002	ug/L #	42
53) m,p-xylene	9.146	106	64	0.005	ug/L #	48
61) 1,2,3-Trichloropropane	11.249	75	4825	1.549	ug/L #	66
62) 1,3,5-Trimethylbenzene	10.458	105	22	0.001	ug/L #	28
63) 1,2,4-Trimethylbenzene	10.924	105	215	0.010	ug/L #	45
68) 1,2-Dibromo-3-chloropr...	12.201	75	19	0.029	ug/L #	1

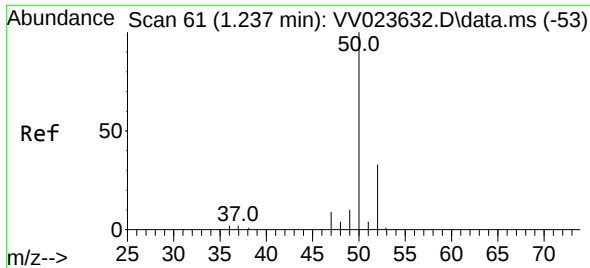
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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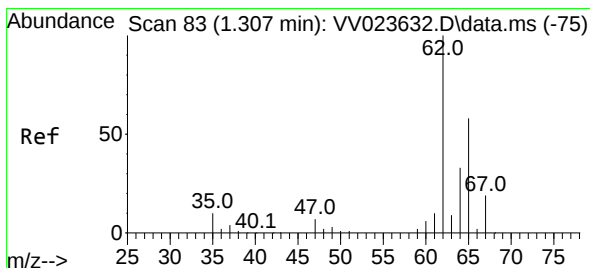
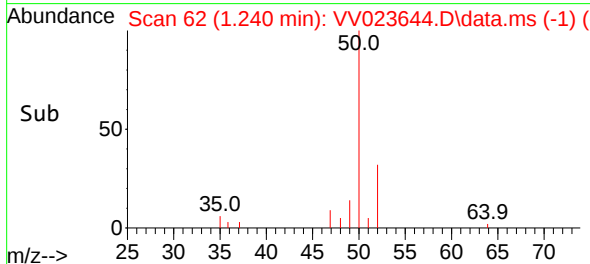
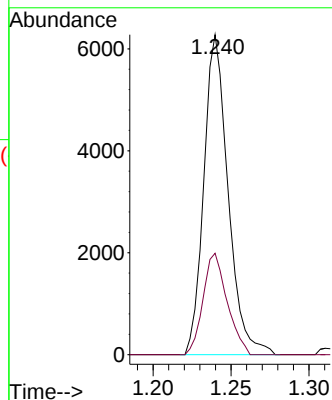
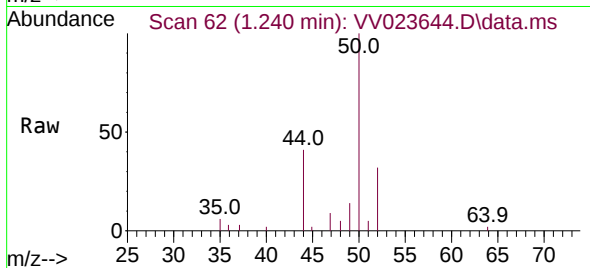




#3
Chloromethane
Concen: 0.780 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.003 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

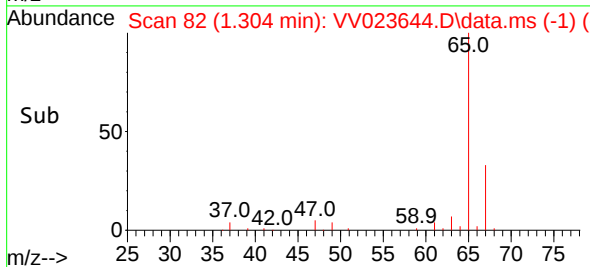
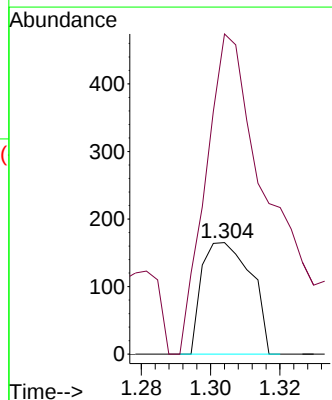
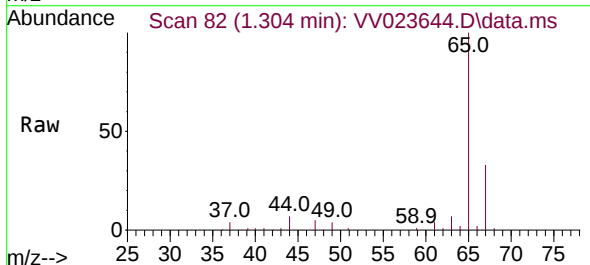
Instrument :
MSVOA_V
ClientSampleId :

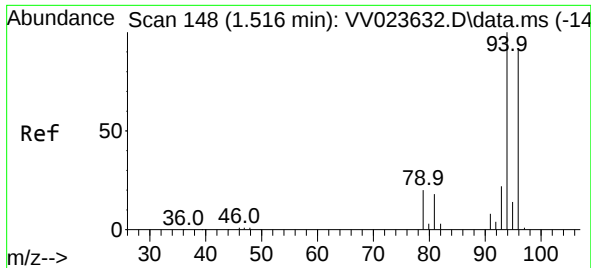
Tgt Ion: 50 Resp: 6791
Ion Ratio Lower Upper
50 100
52 31.7 24.3 45.1



#5
Vinyl chloride
Concen: 0.019 ug/L
RT: 1.304 min Scan# 82
Delta R.T. -0.003 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

Tgt Ion: 62 Resp: 163
Ion Ratio Lower Upper
62 100
64 287.3 23.1 42.9#

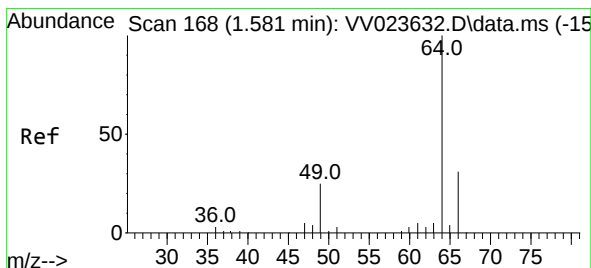
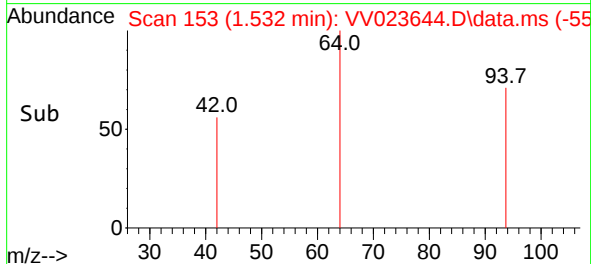
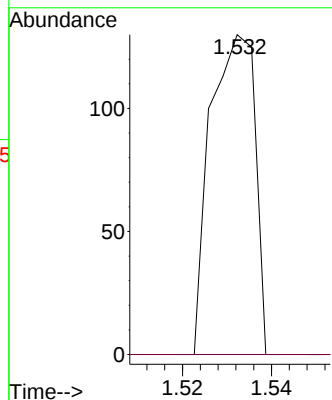
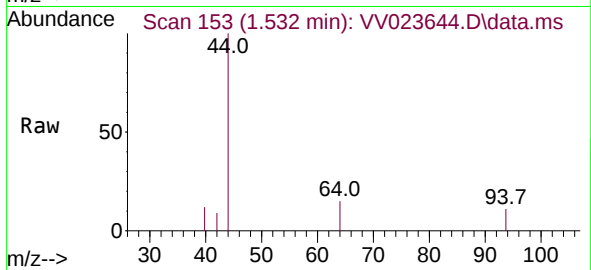




#6
Bromomethane
Concen: 0.016 ug/L
RT: 1.532 min Scan# 11
Delta R.T. 0.016 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

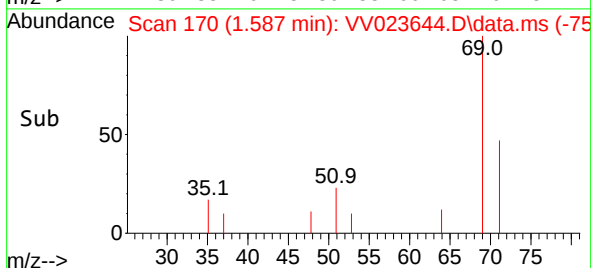
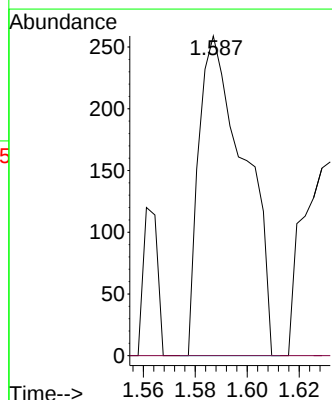
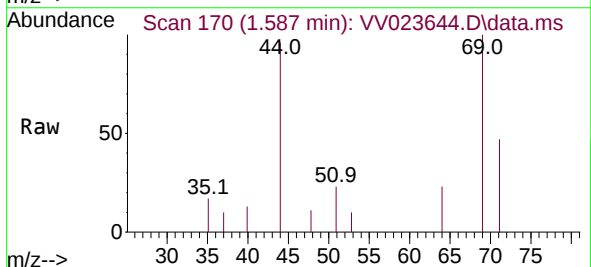
Instrument :
MSVOA_V
ClientSampleId :

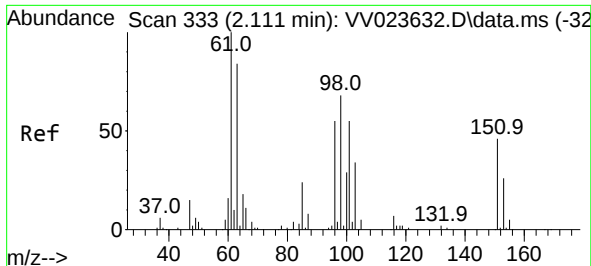
Tgt Ion: 94 Resp: 90
Ion Ratio Lower Upper
94 100
96 0.0 65.0 120.8#



#8
Chloroethane
Concen: 0.063 ug/L
RT: 1.587 min Scan# 170
Delta R.T. 0.006 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

Tgt Ion: 64 Resp: 317
Ion Ratio Lower Upper
64 100
66 0.0 22.1 41.1#

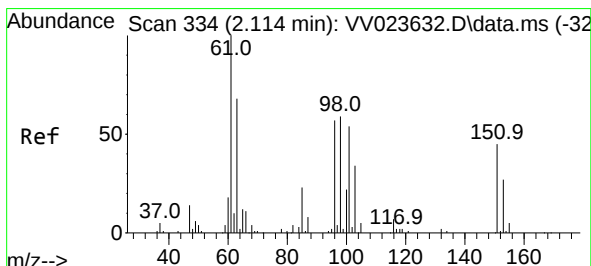
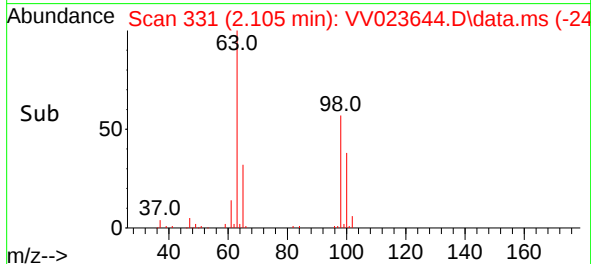
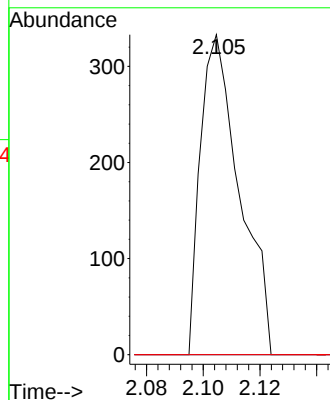
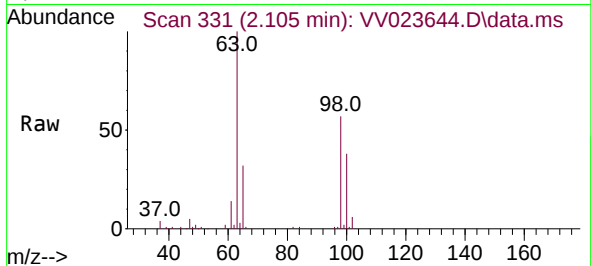




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.049 ug/L
 RT: 2.105 min Scan# 331
 Delta R.T. -0.006 min
 Lab File: VV023644.D
 Acq: 19 Nov 2021 15:28

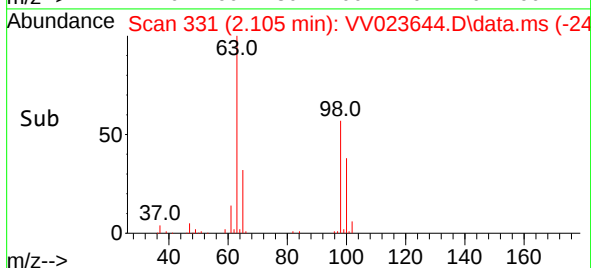
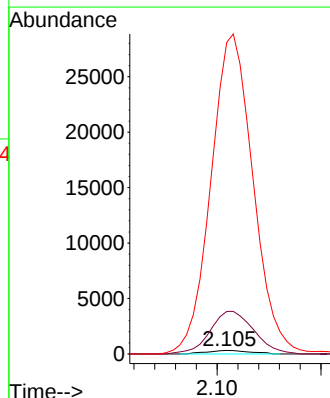
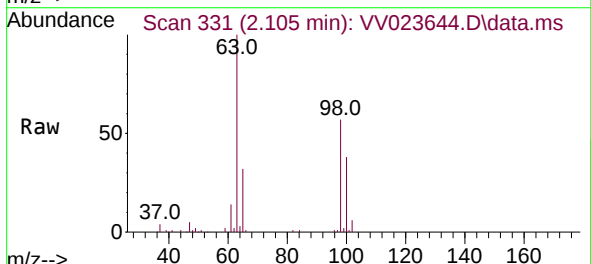
Instrument :
 MSVOA_V
 ClientSampleId :

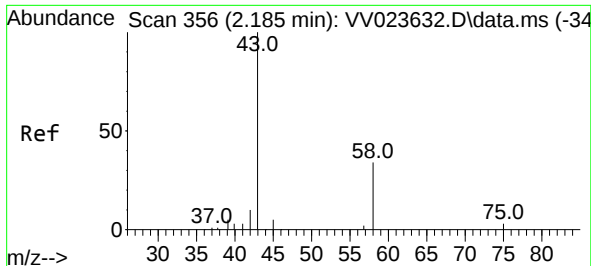
Tgt Ion:101 Resp: 320
 Ion Ratio Lower Upper
 101 100
 85 0.0 35.3 52.9#
 151 0.0 62.2 93.2#



#12
 1,1-Dichloroethene
 Concen: 0.072 ug/L
 RT: 2.105 min Scan# 331
 Delta R.T. -0.010 min
 Lab File: VV023644.D
 Acq: 19 Nov 2021 15:28

Tgt Ion: 96 Resp: 451
 Ion Ratio Lower Upper
 96 100
 61 1217.8 121.5 225.7#
 63 8921.9 99.6 185.0#





#13

Acetone

Concen: 1.791 ug/L

RT: 2.191 min Scan# 3

Delta R.T. 0.006 min

Lab File: VV023644.D

Acq: 19 Nov 2021 15:28

Instrument :

MSVOA_V

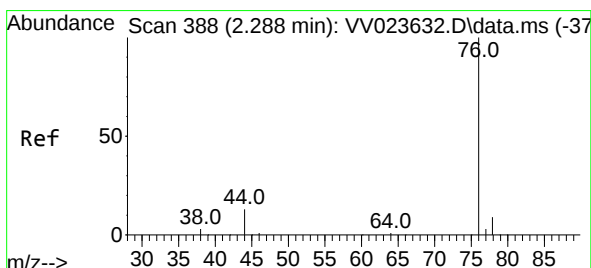
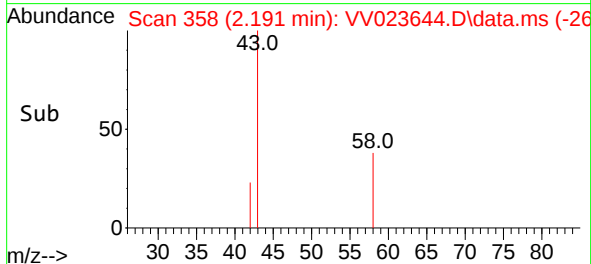
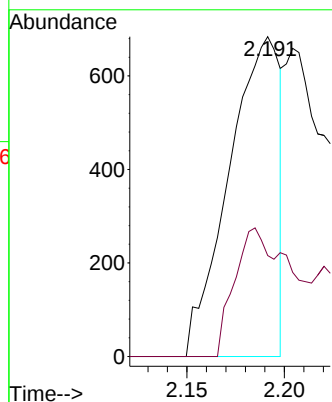
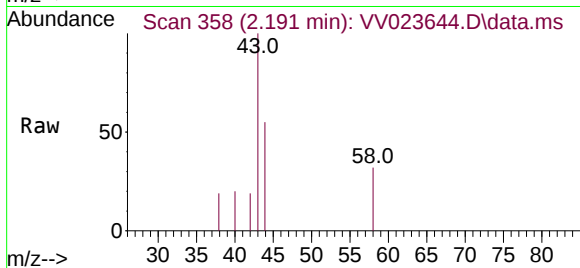
ClientSampleId :

Tgt Ion: 43 Resp: 1240

Ion Ratio Lower Upper

43 100

58 45.8 0.0 55.4



#14

Carbon disulfide

Concen: 0.014 ug/L

RT: 2.291 min Scan# 389

Delta R.T. 0.003 min

Lab File: VV023644.D

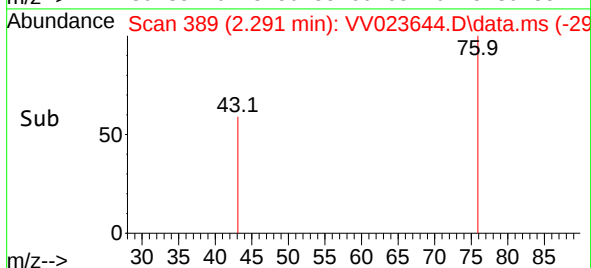
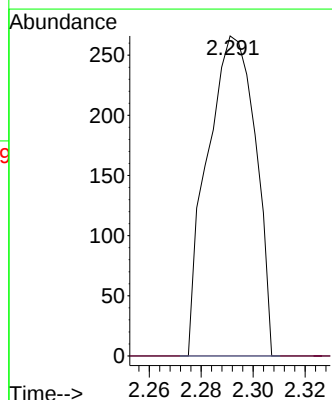
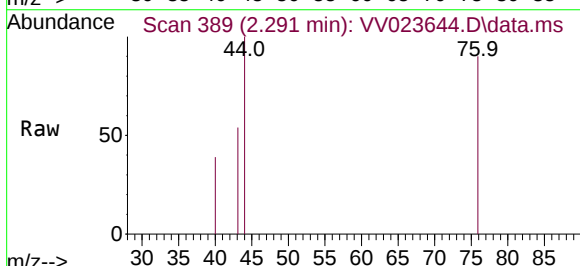
Acq: 19 Nov 2021 15:28

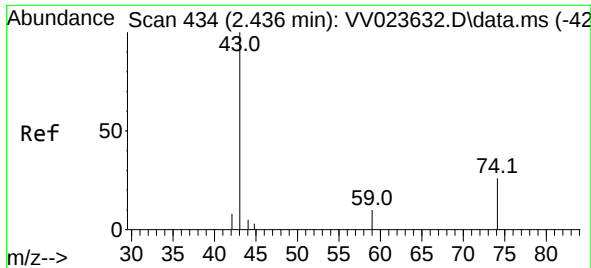
Tgt Ion: 76 Resp: 342

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#

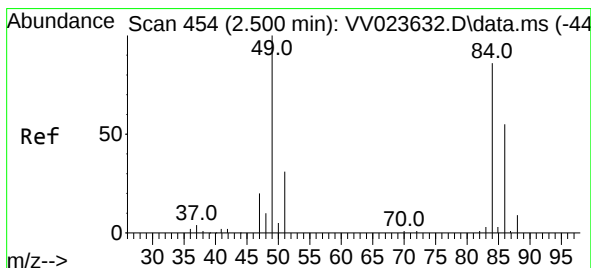
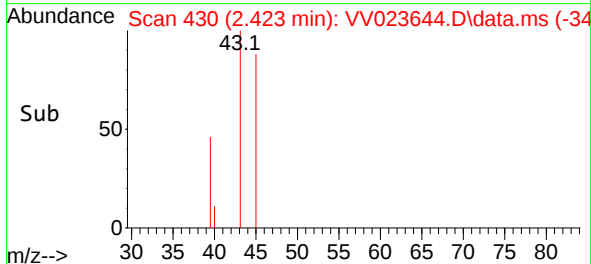
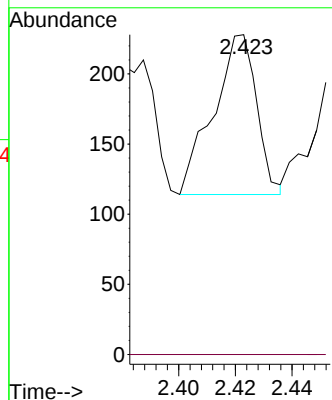
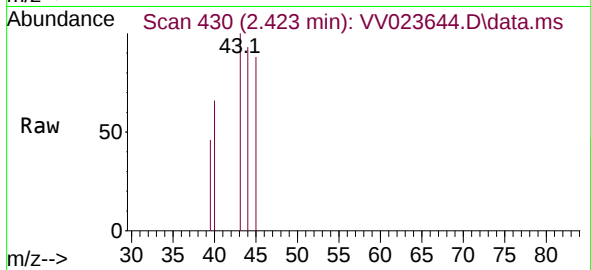




#15
Methyl Acetate
Concen: 0.062 ug/L
RT: 2.423 min Scan# 41
Delta R.T. -0.013 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

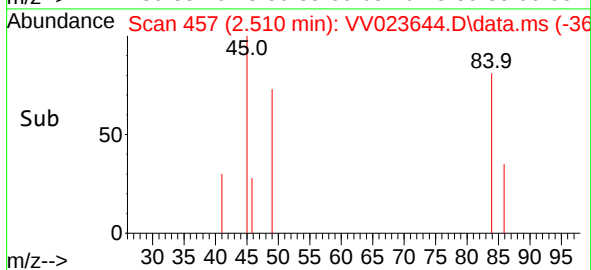
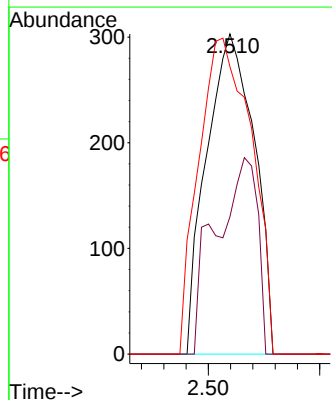
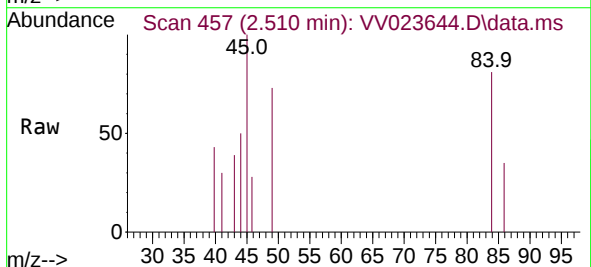
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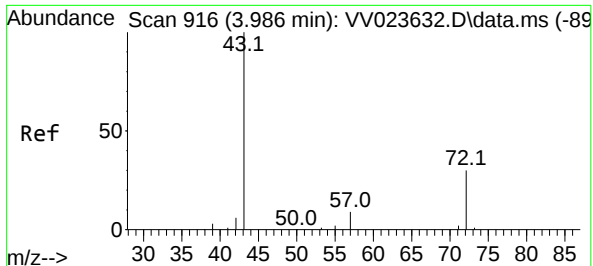
Tgt Ion: 43 Resp: 121
Ion Ratio Lower Upper
43 100
74 0.0 22.2 33.2#



#16
Methylene chloride
Concen: 0.049 ug/L
RT: 2.510 min Scan# 457
Delta R.T. 0.010 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

Tgt Ion: 84 Resp: 451
Ion Ratio Lower Upper
84 100
86 42.9 42.3 78.5
49 89.8 79.7 148.1





#21

2-Butanone

Concen: 0.188 ug/L

RT: 3.998 min Scan# 91

Delta R.T. 0.013 min

Lab File: VV023644.D

Acq: 19 Nov 2021 15:28

Instrument :

MSVOA_V

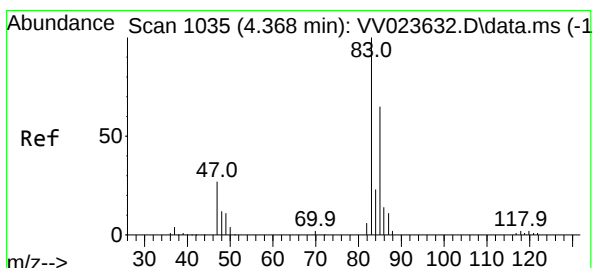
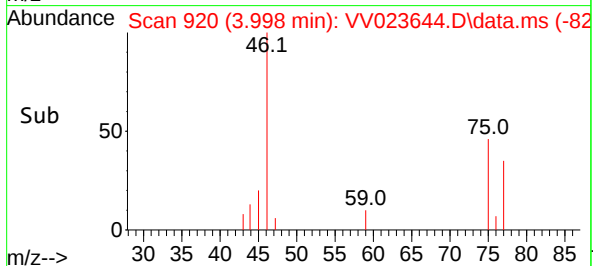
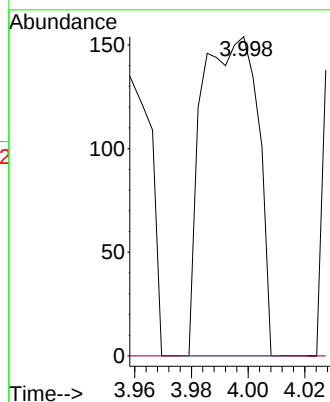
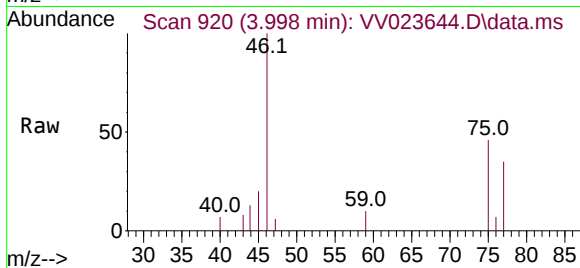
ClientSampleId :

Tgt Ion: 43 Resp: 210

Ion Ratio Lower Upper

43 100

72 0.0 11.9 35.9#



#25

Chloroform

Concen: 0.861 ug/L

RT: 4.371 min Scan# 1036

Delta R.T. 0.003 min

Lab File: VV023644.D

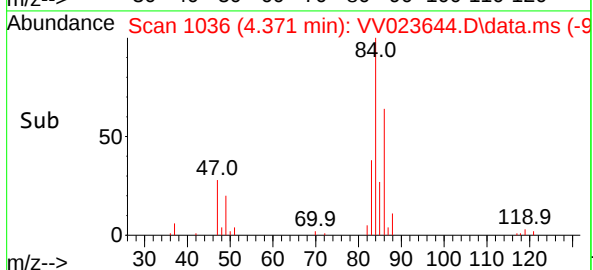
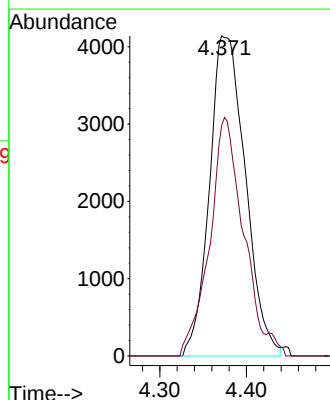
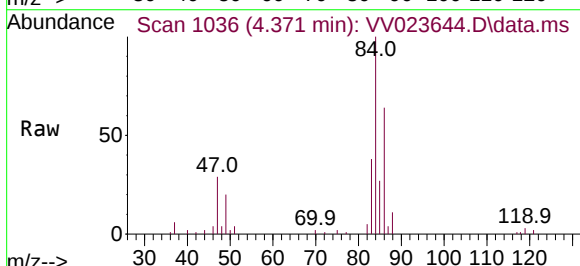
Acq: 19 Nov 2021 15:28

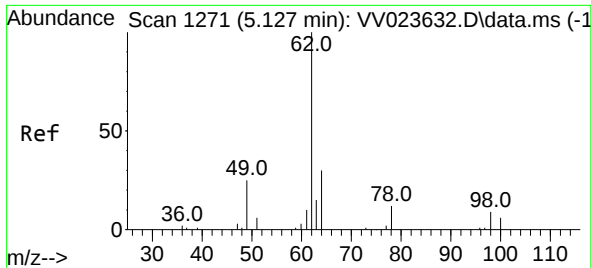
Tgt Ion: 83 Resp: 11922

Ion Ratio Lower Upper

83 100

85 72.0 46.8 86.8





#27

1,2-Dichloroethane

Concen: 0.101 ug/L

RT: 5.056 min Scan# 11

Delta R.T. -0.071 min

Lab File: VV023644.D

Acq: 19 Nov 2021 15:28

Instrument :

MSVOA_V

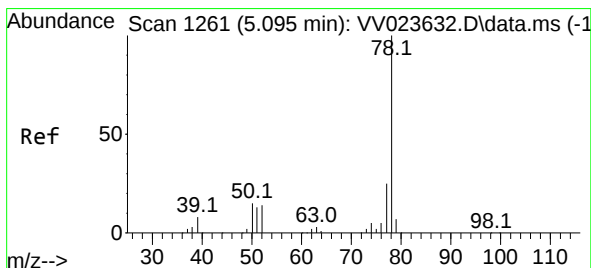
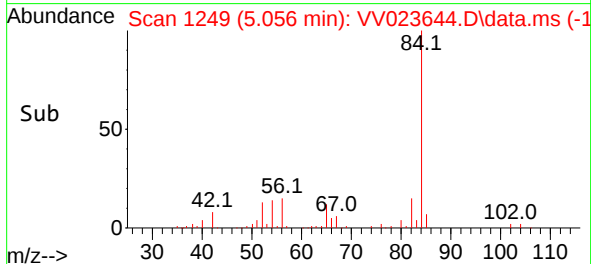
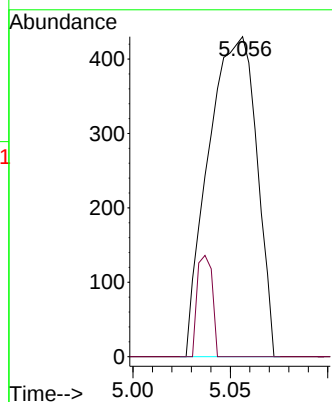
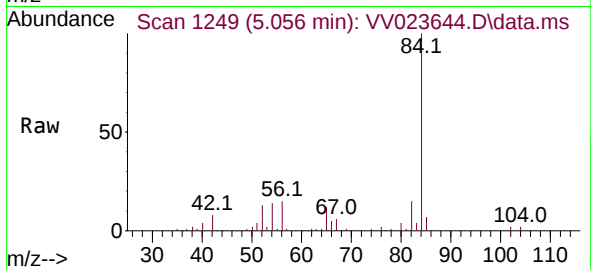
ClientSampleId :

Tgt Ion: 62 Resp: 742

Ion Ratio Lower Upper

62 100

98 0.0 8.2 12.4#



#33

Benzene

Concen: 0.028 ug/L

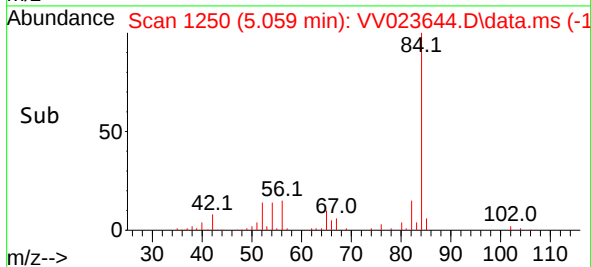
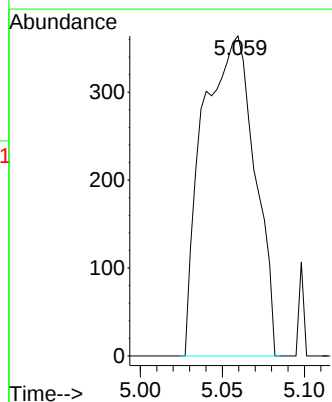
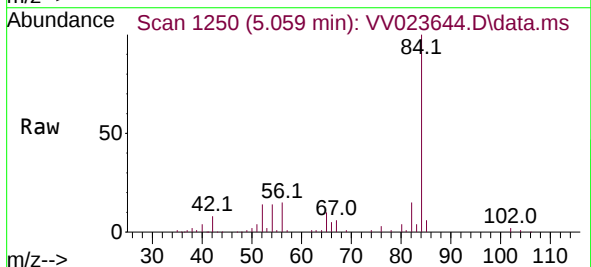
RT: 5.059 min Scan# 1250

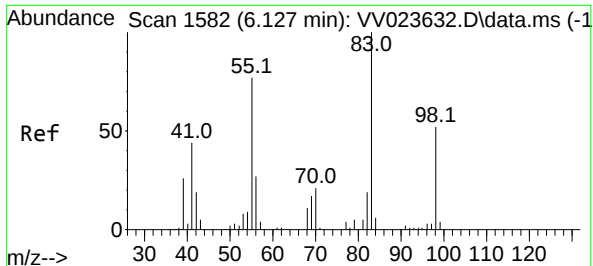
Delta R.T. -0.035 min

Lab File: VV023644.D

Acq: 19 Nov 2021 15:28

Tgt Ion: 78 Resp: 800





#35

Methylcyclohexane

Concen: 0.731 ug/L

RT: 6.069 min Scan# 1564

Delta R.T. -0.058 min

Lab File: VV023644.D

Acq: 19 Nov 2021 15:28

Instrument :

MSVOA_V

ClientSampleId :

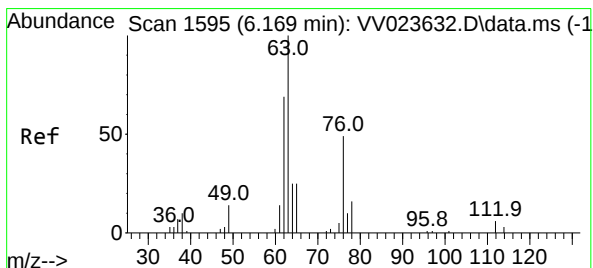
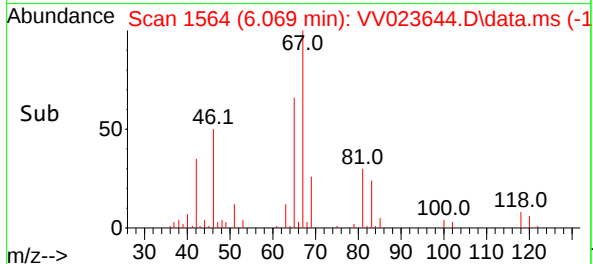
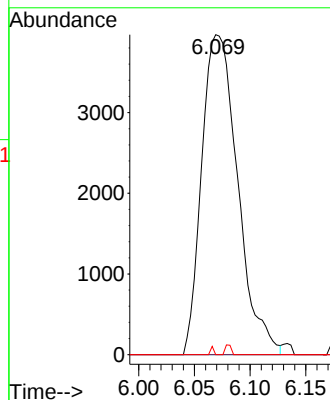
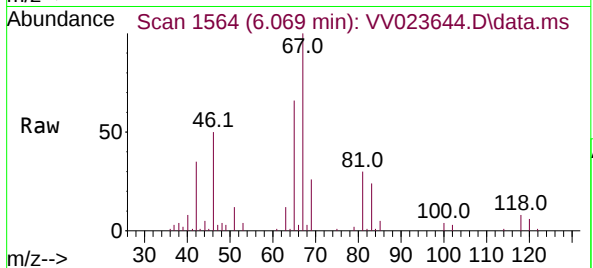
Tgt Ion: 83 Resp: 8921

Ion Ratio Lower Upper

83 100

55 0.0 62.8 94.2#

98 0.2 37.9 56.9#



#37

1,2-Dichloropropane

Concen: 0.638 ug/L

RT: 6.069 min Scan# 1564

Delta R.T. -0.100 min

Lab File: VV023644.D

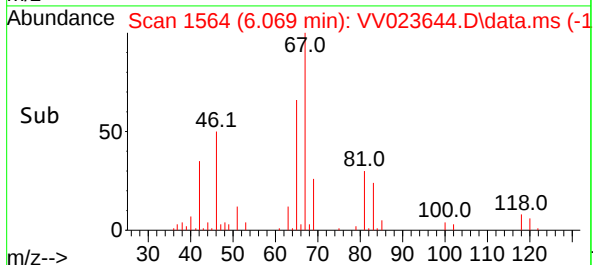
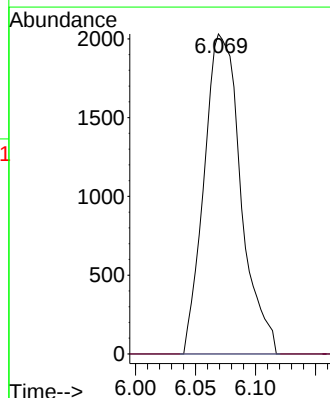
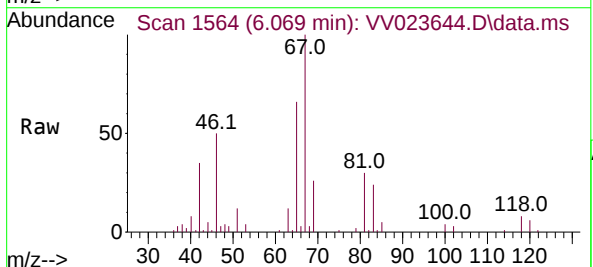
Acq: 19 Nov 2021 15:28

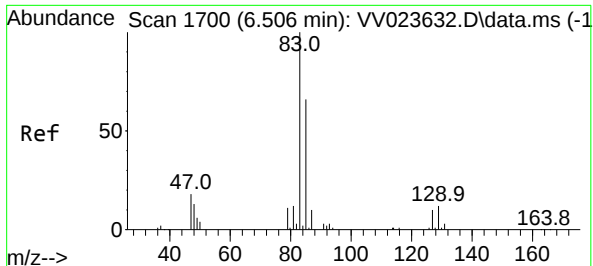
Tgt Ion: 63 Resp: 4330

Ion Ratio Lower Upper

63 100

112 0.0 4.6 6.8#

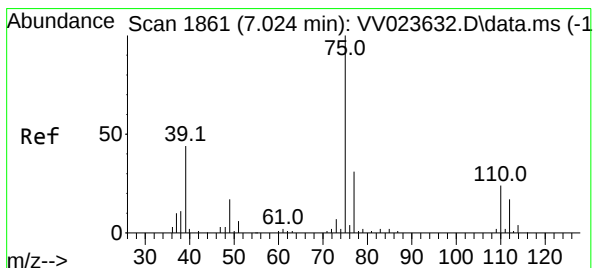
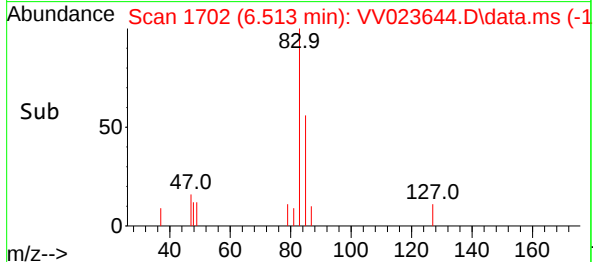
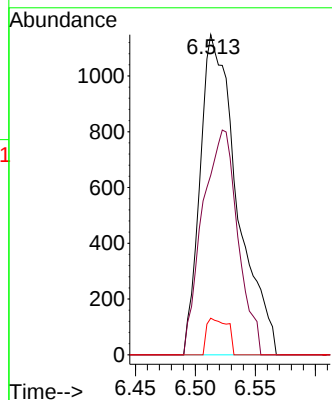
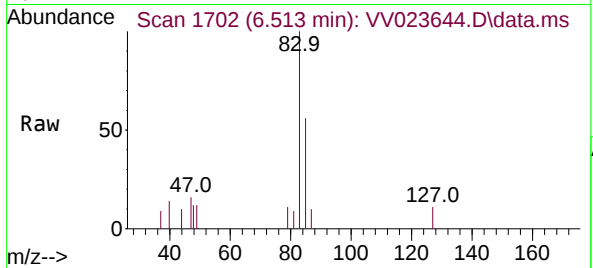




#38
Bromodichloromethane
Concen: 0.272 ug/L
RT: 6.513 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

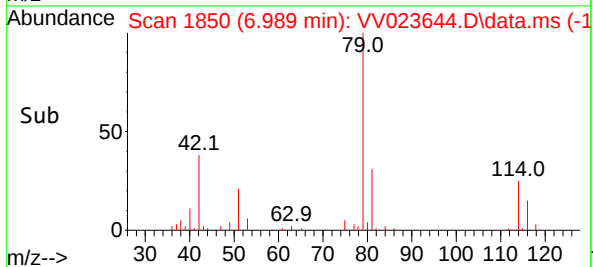
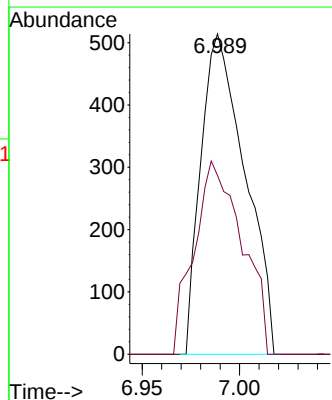
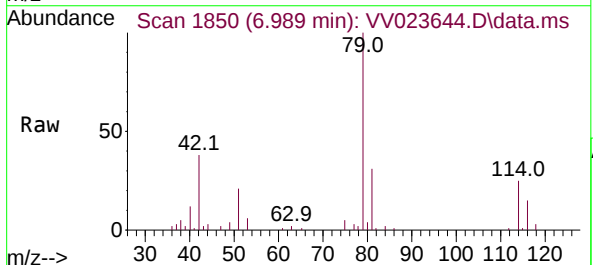
Instrument :
MSVOA_V
ClientSampleId :

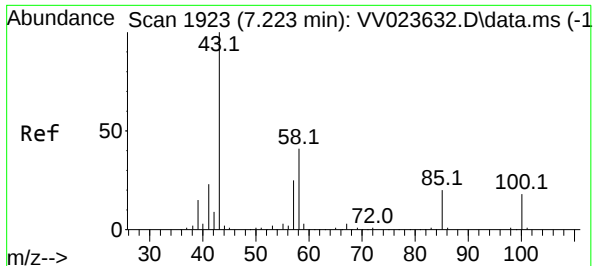
Tgt Ion: 83 Resp: 2471
Ion Ratio Lower Upper
83 100
85 56.1 46.1 85.7
127 11.4 7.2 10.8#



#39
cis-1,3-Dichloropropene
Concen: 0.083 ug/L
RT: 6.989 min Scan# 1850
Delta R.T. -0.035 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

Tgt Ion: 75 Resp: 810
Ion Ratio Lower Upper
75 100
77 55.8 21.6 40.2#





#40

4-Methyl-2-pentanone

Concen: 0.032 ug/L

RT: 7.243 min Scan# 1923

Delta R.T. 0.019 min

Lab File: VV023644.D

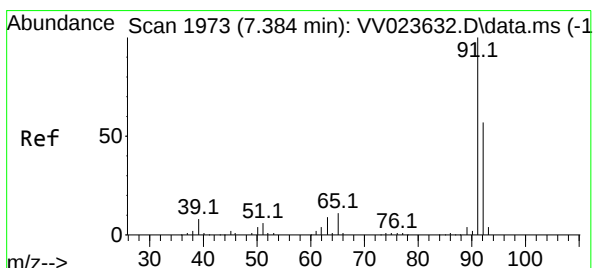
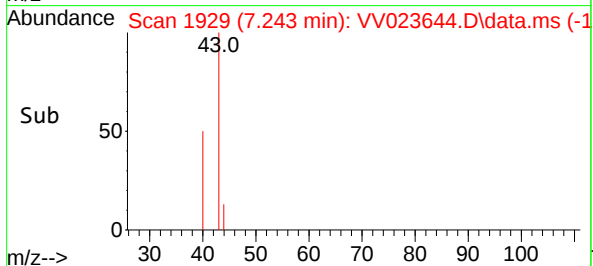
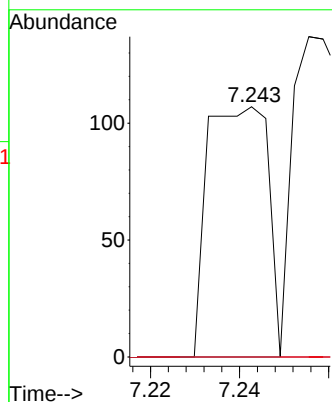
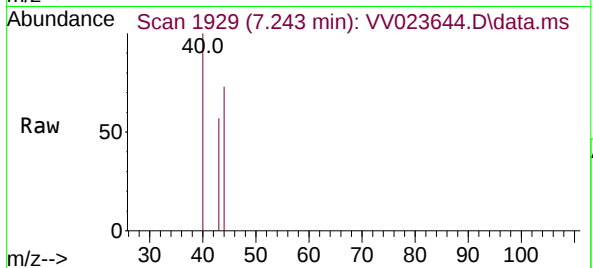
Acq: 19 Nov 2021 15:28

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 43	Resp:	100
Ion	Ratio	Lower Upper
43	100	
58	0.0	31.1 46.7#
100	0.0	12.6 19.0#



#42

Toluene

Concen: 0.061 ug/L

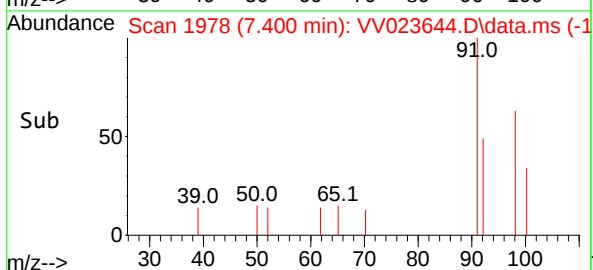
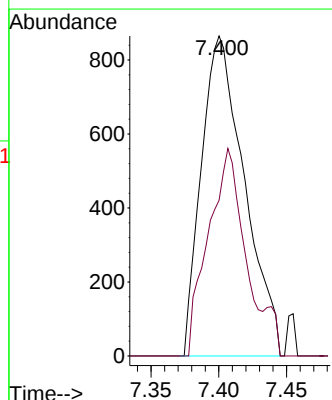
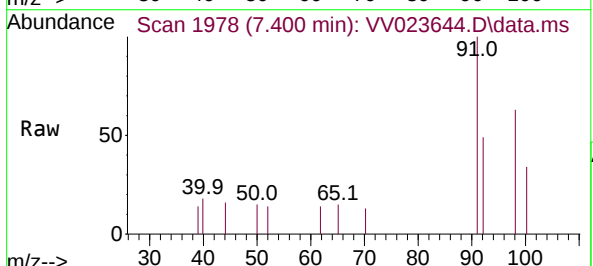
RT: 7.400 min Scan# 1978

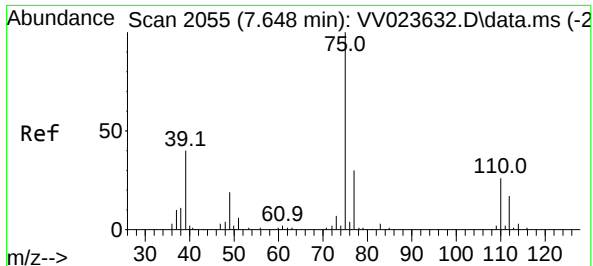
Delta R.T. 0.016 min

Lab File: VV023644.D

Acq: 19 Nov 2021 15:28

Tgt Ion: 91	Resp:	1910
Ion	Ratio	Lower Upper
91	100	
92	48.7	39.3 72.9

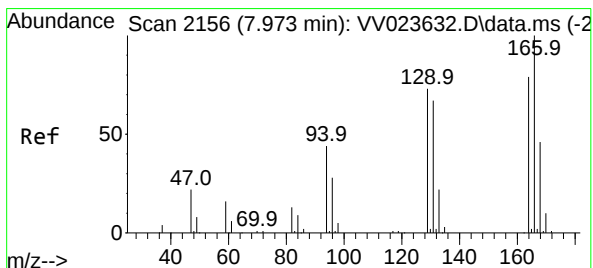
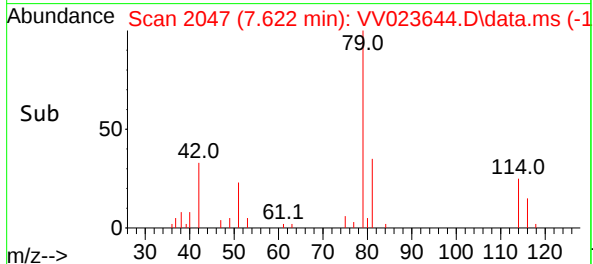
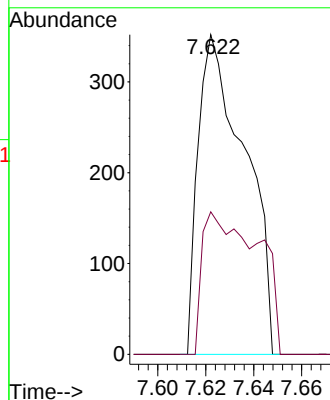
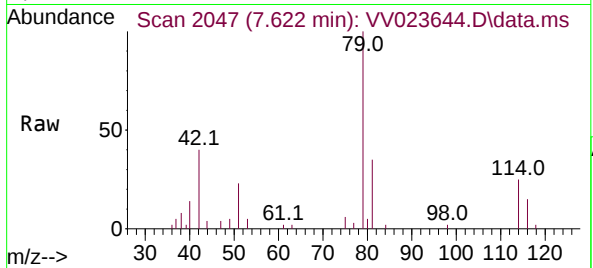




#44
trans-1,3-Dichloropropene
Concen: 0.059 ug/L
RT: 7.622 min Scan# 2055
Delta R.T. -0.026 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

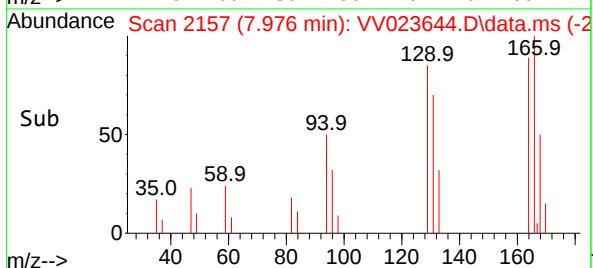
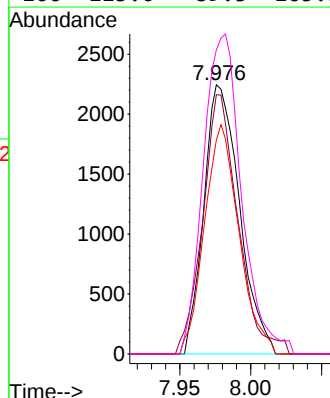
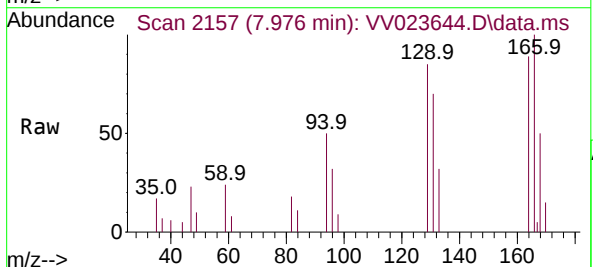
Instrument :
MSVOA_V
ClientSampleId :

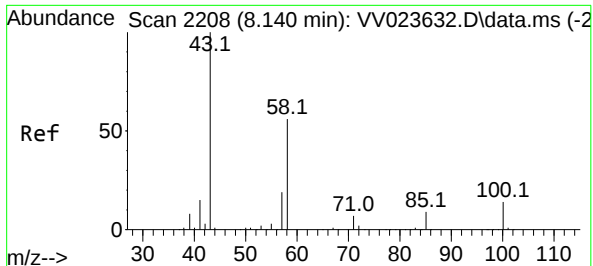
Tgt Ion: 75 Resp: 476
Ion Ratio Lower Upper
75 100
77 44.6 22.5 41.7#



#47
Tetrachloroethene
Concen: 0.586 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. 0.003 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

Tgt Ion:164 Resp: 3926
Ion Ratio Lower Upper
164 100
129 96.3 64.0 119.0
131 79.6 63.4 117.8
166 113.0 89.3 165.9

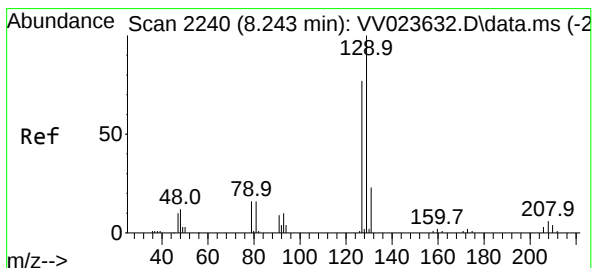
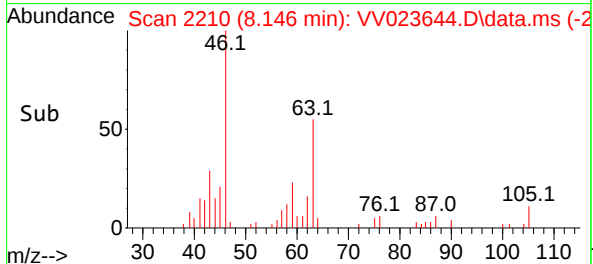
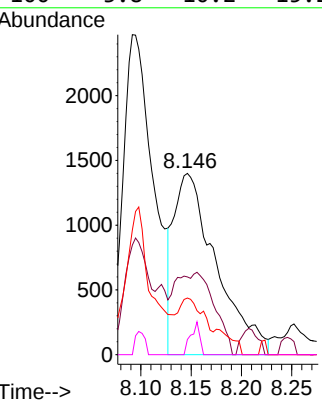
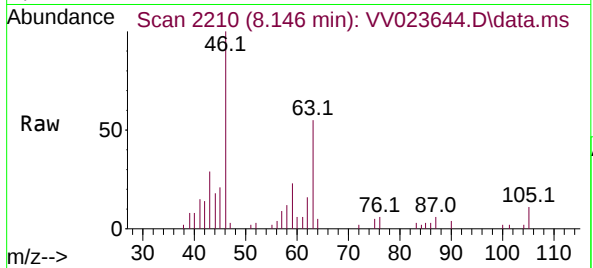




#48
2-Hexanone
Concen: 1.871 ug/L
RT: 8.146 min Scan# 2110
Delta R.T. 0.006 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

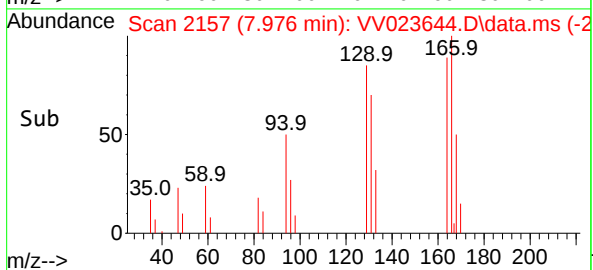
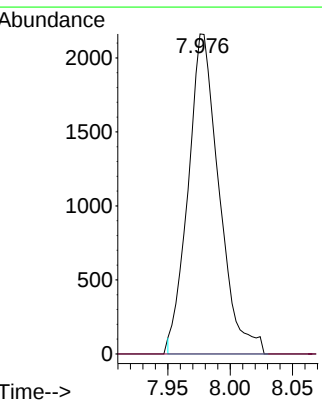
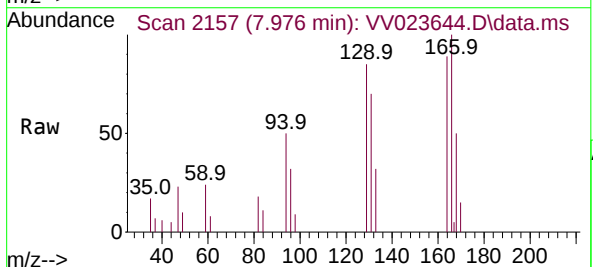
Instrument :
MSVOA_V
ClientSampleId :

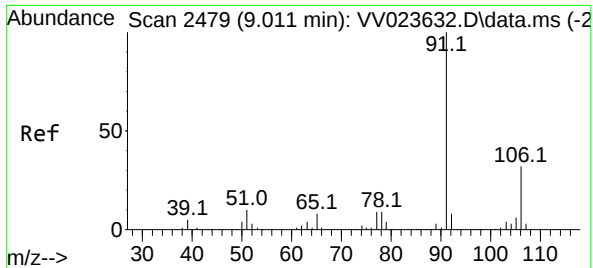
Tgt Ion: 43	Resp: 4127
Ion Ratio	Lower Upper
43 100	
58 42.3	43.7 65.5#
57 10.8	14.1 21.1#
100 3.8	10.2 15.2#



#49
Dibromochloromethane
Concen: 0.603 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.267 min
Lab File: VV023644.D
Acq: 19 Nov 2021 15:28

Tgt Ion:129	Resp:	3725	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	54.7	101.7#





#52

Ethylbenzene

Concen: 0.002 ug/L

RT: 9.027 min Scan# 24

Delta R.T. 0.016 min

Lab File: VV023644.D

Acq: 19 Nov 2021 15:28

Instrument :

MSVOA_V

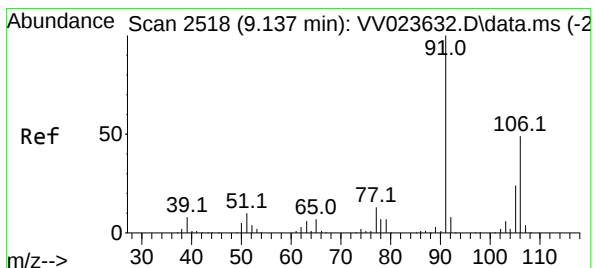
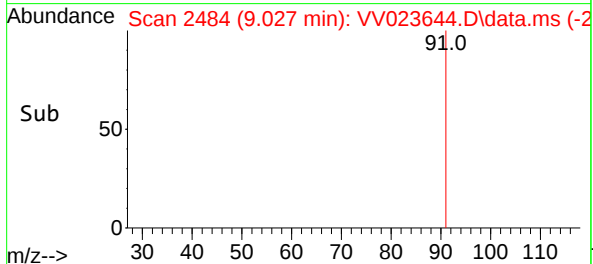
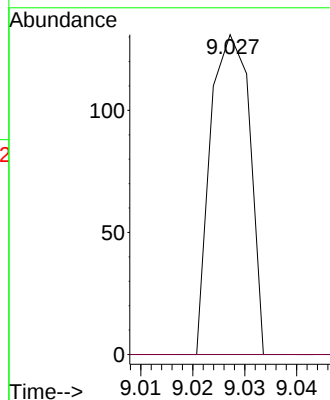
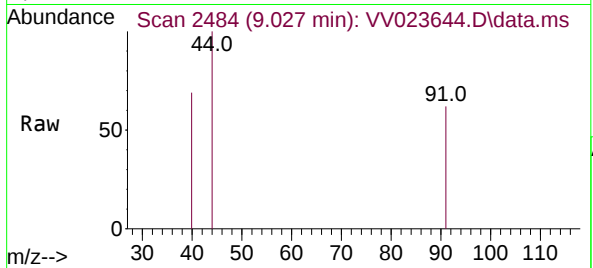
ClientSampleId :

Tgt Ion: 91 Resp: 69

Ion Ratio Lower Upper

91 100

106 0.0 22.5 41.9#



#53

m,p-xylene

Concen: 0.005 ug/L

RT: 9.146 min Scan# 2521

Delta R.T. 0.010 min

Lab File: VV023644.D

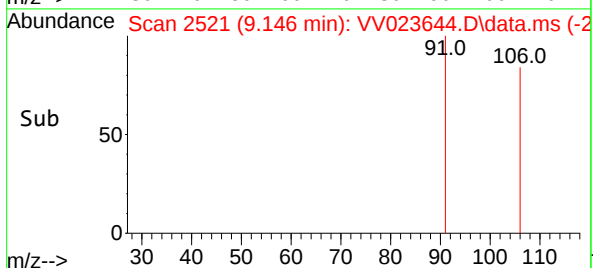
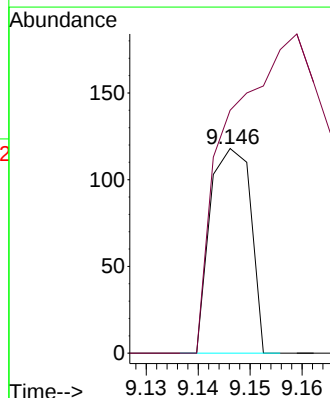
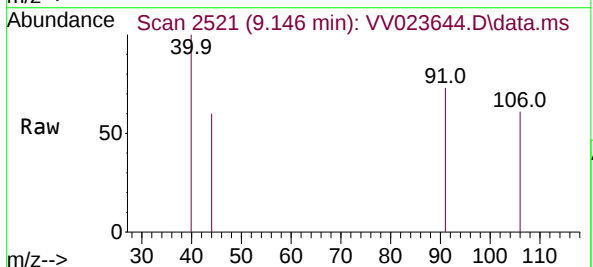
Acq: 19 Nov 2021 15:28

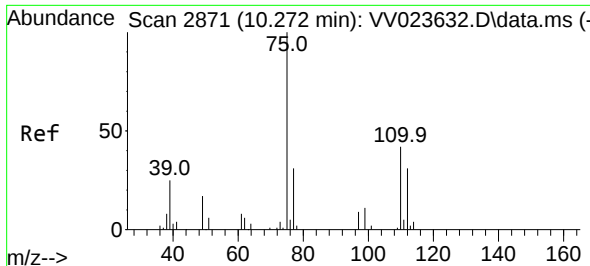
Tgt Ion:106 Resp: 64

Ion Ratio Lower Upper

106 100

91 118.6 137.2 254.8#

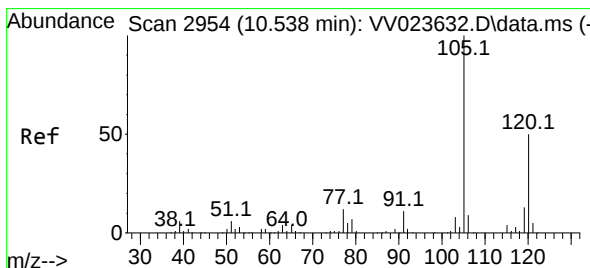
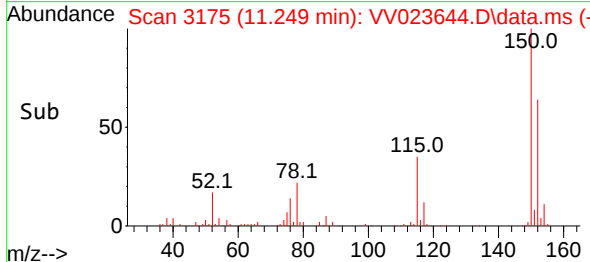
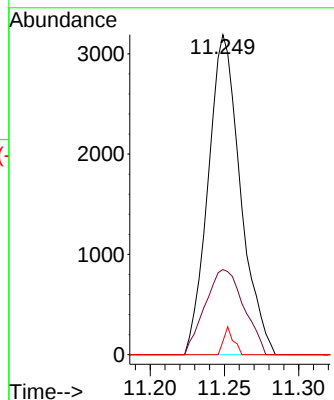
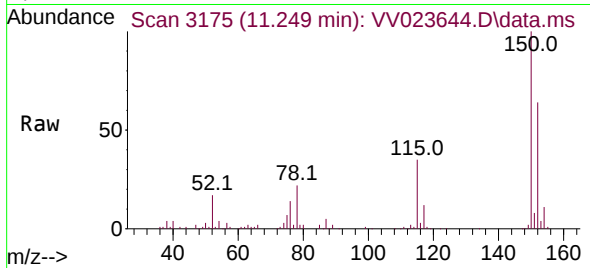




#61
 1,2,3-Trichloropropane
 Concen: 1.549 ug/L
 RT: 11.249 min Scan# 311
 Delta R.T. 0.977 min
 Lab File: VV023644.D
 Acq: 19 Nov 2021 15:28

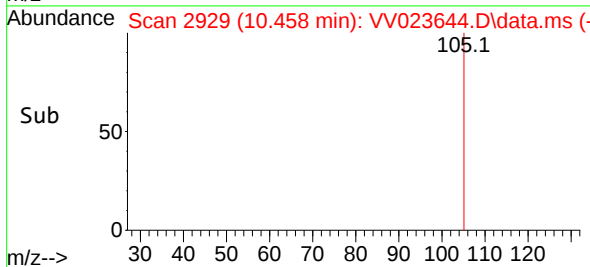
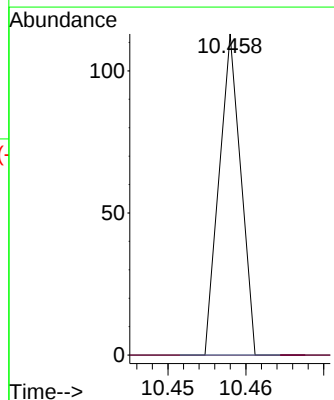
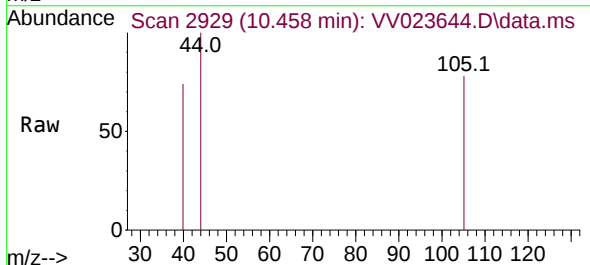
Instrument :
 MSVOA_V
 ClientSampleId :

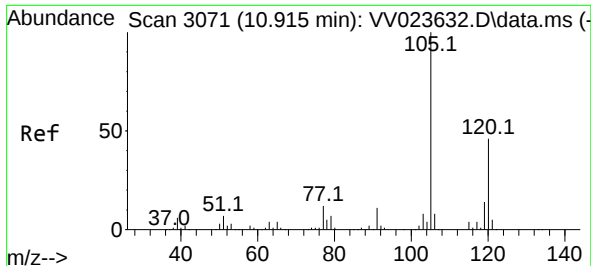
Tgt Ion: 75 Resp: 4825
 Ion Ratio Lower Upper
 75 100
 77 31.9 26.6 39.8
 110 2.7 31.8 47.6#



#62
 1,3,5-Trimethylbenzene
 Concen: 0.001 ug/L
 RT: 10.458 min Scan# 2929
 Delta R.T. -0.080 min
 Lab File: VV023644.D
 Acq: 19 Nov 2021 15:28

Tgt Ion: 105 Resp: 22
 Ion Ratio Lower Upper
 105 100
 120 0.0 39.7 59.5#

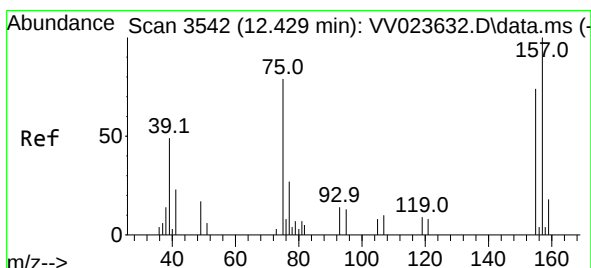
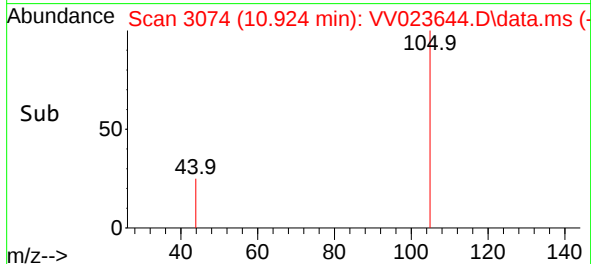
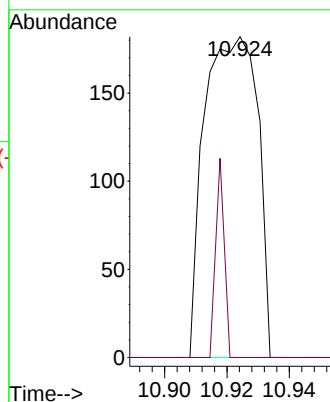
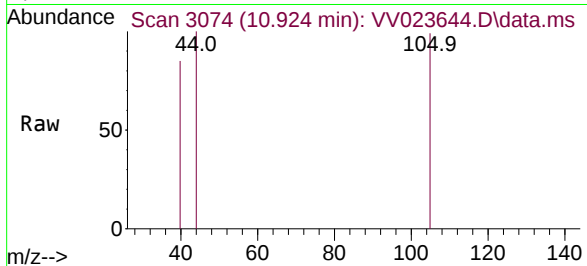




#63
 1,2,4-Trimethylbenzene
 Concen: 0.010 ug/L
 RT: 10.924 min Scan# 3074
 Delta R.T. 0.010 min
 Lab File: VV023644.D
 Acq: 19 Nov 2021 15:28

Instrument :
 MSVOA_V
 ClientSampleId :

Tgt Ion:105 Resp: 215
 Ion Ratio Lower Upper
 105 100
 120 10.2 37.4 56.2#



#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.029 ug/L
 RT: 12.201 min Scan# 3471
 Delta R.T. -0.228 min
 Lab File: VV023644.D
 Acq: 19 Nov 2021 15:28

Tgt Ion: 75 Resp: 19
 Ion Ratio Lower Upper
 75 100
 155 0.0 67.7 101.5#
 157 0.0 87.9 131.9#

