

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV112224\
 Data File : VV038276.D
 Acq On : 22 Nov 2024 17:54
 Operator : SY/MD
 Sample : P4884-19
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 23 00:04:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR111924WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Nov 22 23:57:44 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	249981	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	282170	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	121095	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.275	65	66754	3.484	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	69.600%
7) Chloroethane-d5	1.529	69	69941	4.513	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.200%
11) 1,1-Dichloroethene-d2	2.053	65	30949	3.753	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.000%
20) 2-Butanone-d5	3.786	46	219190	57.185	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.360%
24) Chloroform-d	4.240	84	173128	4.656	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.200%
26) 1,2-Dichloroethane-d4	4.937	65	84384	5.057	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	101.200%
32) Benzene-d6	4.953	84	293102	4.019	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.400%
36) 1,2-Dichloropropane-d6	5.982	67	105562	4.704	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.000%
41) Toluene-d8	7.236	98	234582	3.476	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.600%#
43) trans-1,3-Dichloroprop...	7.558	79	30520	3.658	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	73.200%
46) 2-Hexanone-d5	8.018	63	202008	62.287	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	124.580%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	88038	4.621	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.400%
66) 1,2-Dichlorobenzene-d4	11.554	152	99964	4.845	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	97.000%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.105	85	59351	2.509	ug/L	97
5) Vinyl chloride	1.281	62	4393	0.190	ug/L #	79
10) 1,1,2-Trichloro-1,2,2-...	2.063	101	6398	0.341	ug/L	87
12) 1,1-Dichloroethene	2.063	96	39978	2.239	ug/L #	76
13) Acetone	1.921	43	825176	291.081	ug/L	41
16) Methylene chloride	2.439	84	101182	4.970	ug/L	95
17) Methyl tert-butyl Ether	2.699	73	8868	0.220	ug/L	98
18) trans-1,2-Dichloroethene	2.693	96	4543	0.242	ug/L	94
19) 1,1-Dichloroethane	3.108	63	21571	0.632	ug/L #	93
22) cis-1,2-Dichloroethene	3.802	96	356276	18.319	ug/L	97
25) Chloroform	4.272	83	11710	0.321	ug/L	89
27) 1,2-Dichloroethane	5.066	62	4409	0.222	ug/L #	87
29) 1,1,1-Trichloroethane	4.503	97	75562	2.233	ug/L	99
31) Carbon tetrachloride	4.506	117	9985	0.334	ug/L	96
34) Trichloroethene	5.821	95	6070867	280.976	ug/L	99
35) Methylcyclohexane	5.982	83	25299	0.828	ug/L #	19
42) Toluene	7.320	91	32972	0.393	ug/L	100
45) 1,1,2-Trichloroethane	7.915	97	328725	20.417	ug/L #	11
49) Dibromochloromethane	7.899	129	1458919	83.110	ug/L #	11

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QLast Update : Fri Nov 22 23:57:44 2024
Response via : Initial Calibration

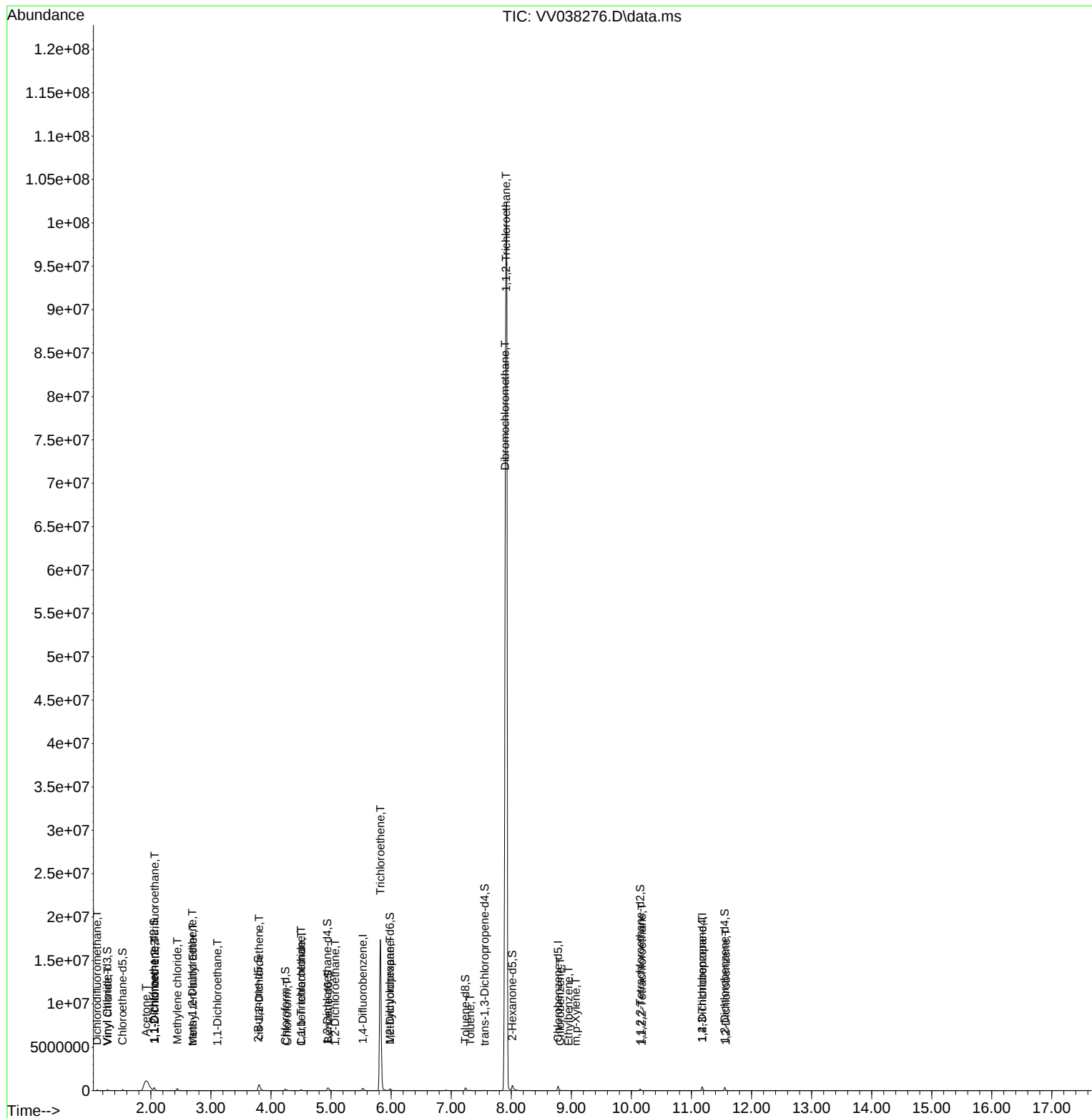
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	8.815	112	23167	0.401	ug/L	99
52) Ethylbenzene	8.953	91	9390	0.105	ug/L	92
53) m,p-Xylene	9.075	106	6004	0.179	ug/L	83
57) 1,1,2,2-Tetrachloroethane	10.175	83	3573	0.190	ug/L #	86
61) 1,2,3-Trichloropropane	11.178	75	14656	1.414	ug/L #	65
67) 1,2-Dichlorobenzene	11.574	146	6325	0.182	ug/L #	88

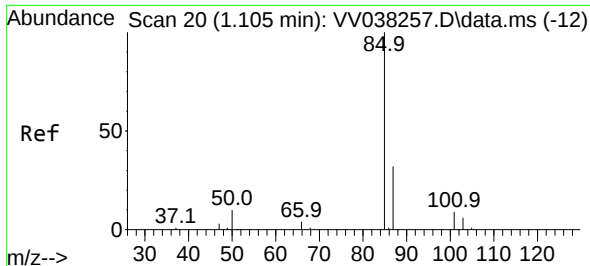
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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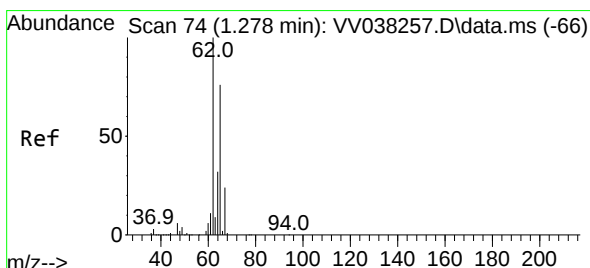
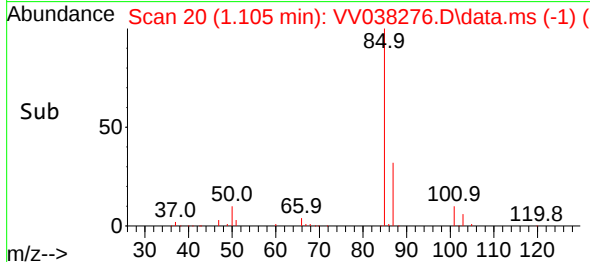
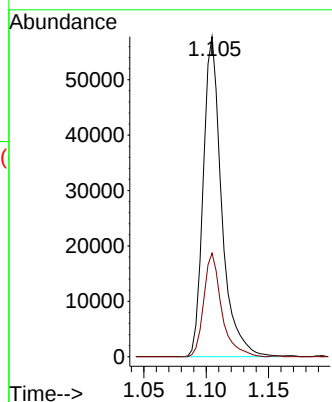
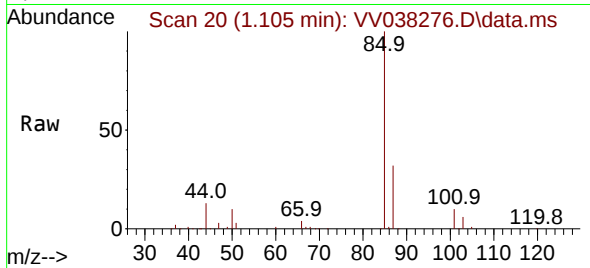




#2
 Dichlorodifluoromethane
 Concen: 2.509 ug/L
 RT: 1.105 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VV038276.D
 Acq: 22 Nov 2024 17:54

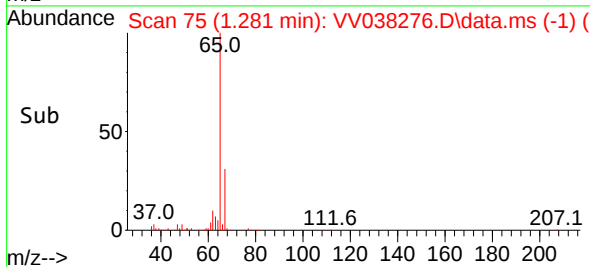
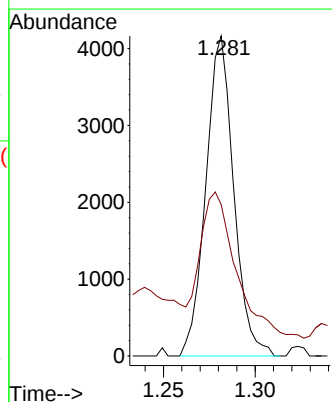
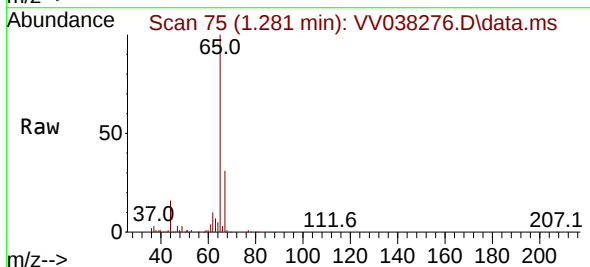
Instrument :
 MSVOA_V
 ClientSampleId :

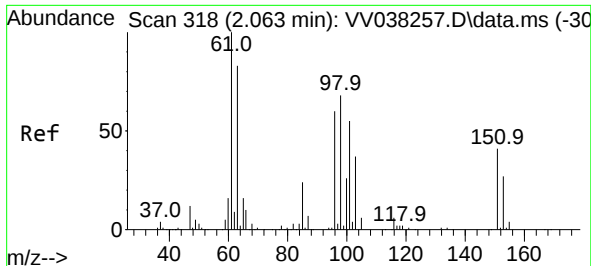
Tgt Ion: 85 Resp: 59351
 Ion Ratio Lower Upper
 85 100
 87 31.3 26.5 39.7



#5
 Vinyl chloride
 Concen: 0.190 ug/L
 RT: 1.281 min Scan# 75
 Delta R.T. 0.003 min
 Lab File: VV038276.D
 Acq: 22 Nov 2024 17:54

Tgt Ion: 62 Resp: 4393
 Ion Ratio Lower Upper
 62 100
 64 47.3 24.4 45.4#

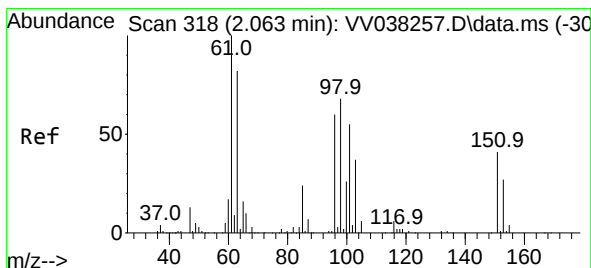
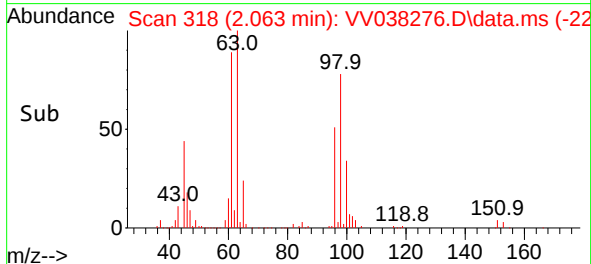
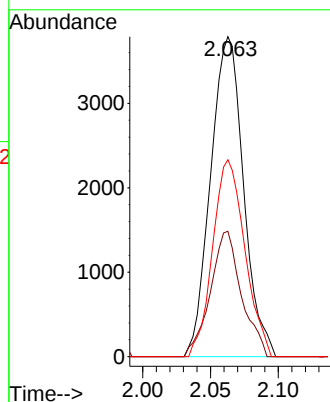
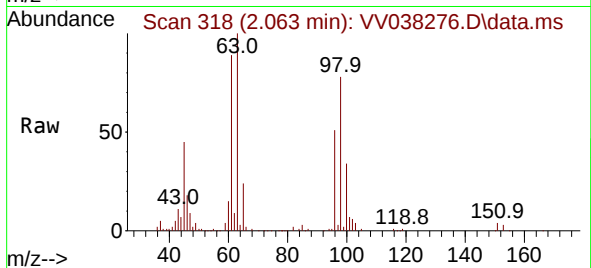




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.341 ug/L
 RT: 2.063 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: VV038276.D
 Acq: 22 Nov 2024 17:54

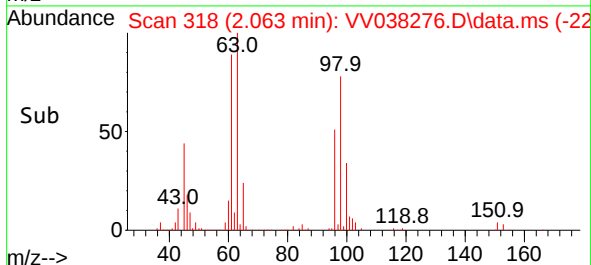
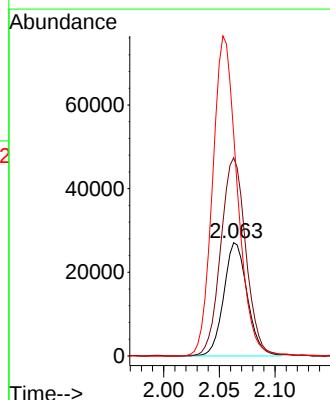
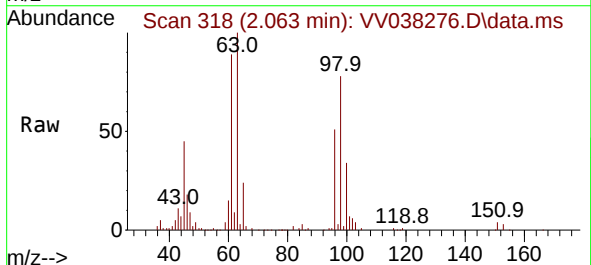
Instrument :
 MSVOA_V
 ClientSampleId :

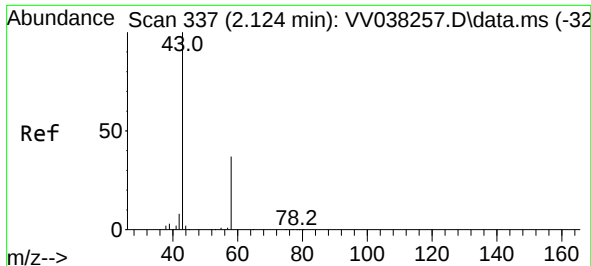
Tgt Ion:101 Resp: 6398
 Ion Ratio Lower Upper
 101 100
 85 37.1 33.4 50.0
 151 60.2 58.8 88.2



#12
 1,1-Dichloroethene
 Concen: 2.239 ug/L
 RT: 2.063 min Scan# 318
 Delta R.T. -0.000 min
 Lab File: VV038276.D
 Acq: 22 Nov 2024 17:54

Tgt Ion: 96 Resp: 39978
 Ion Ratio Lower Upper
 96 100
 61 175.0 115.7 214.9
 63 196.7 101.1 187.7#

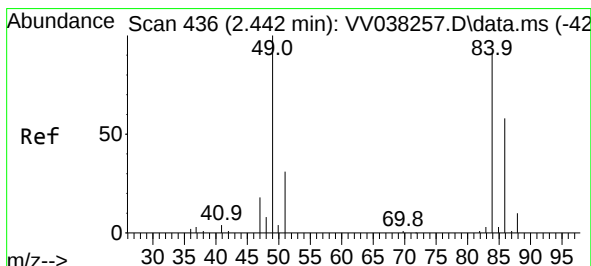
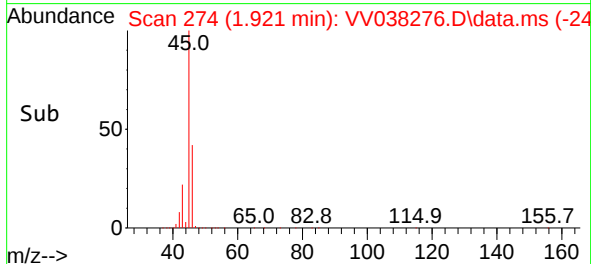
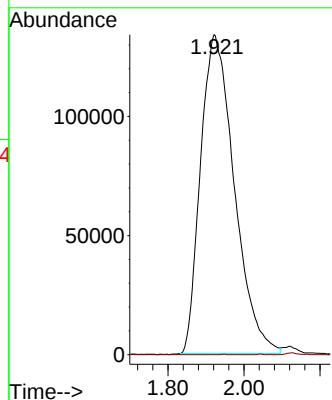
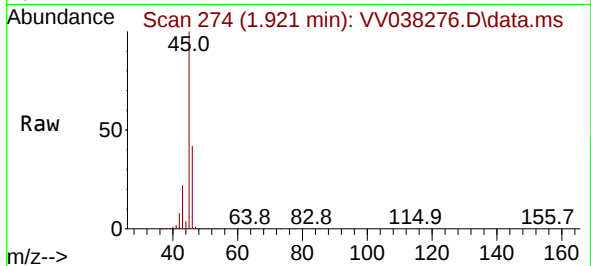




#13
Acetone
Concen: 291.081 ug/L
RT: 1.921 min Scan# 21
Delta R.T. -0.203 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

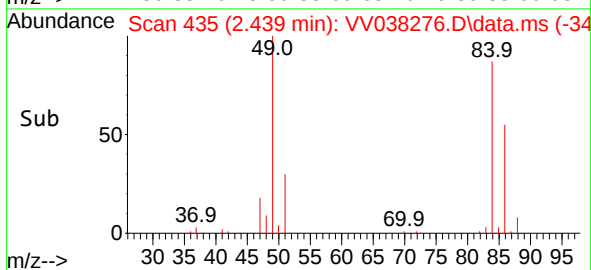
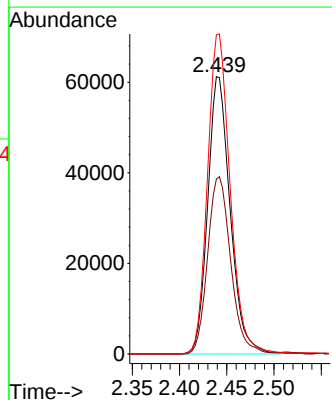
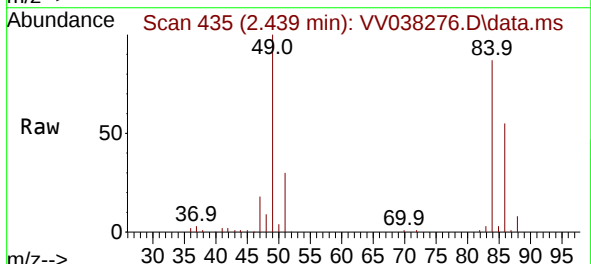
Instrument :
MSVOA_V
ClientSampleId :

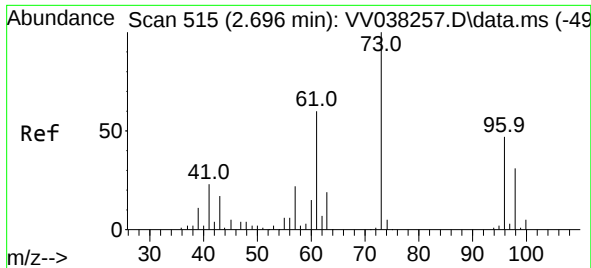
Tgt Ion: 43 Resp: 825176
Ion Ratio Lower Upper
43 100
58 0.0 0.0 67.2



#16
Methylene chloride
Concen: 4.970 ug/L
RT: 2.439 min Scan# 435
Delta R.T. -0.003 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

Tgt Ion: 84 Resp: 101182
Ion Ratio Lower Upper
84 100
86 63.0 44.2 82.2
49 115.0 74.9 139.1

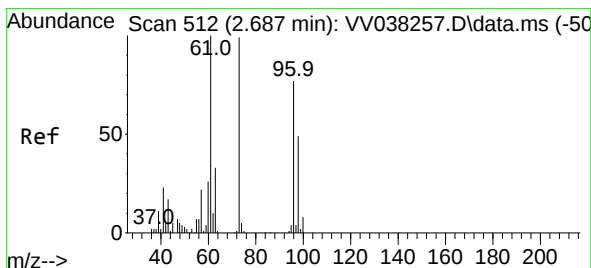
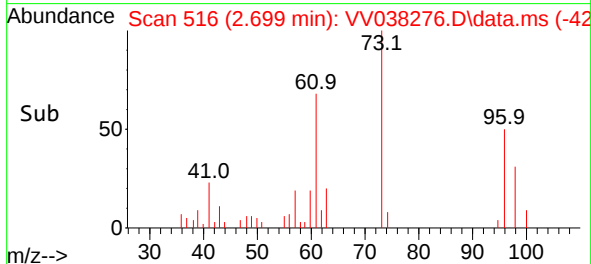
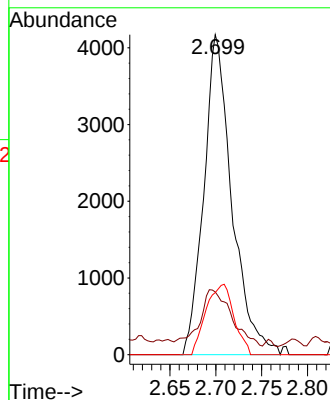
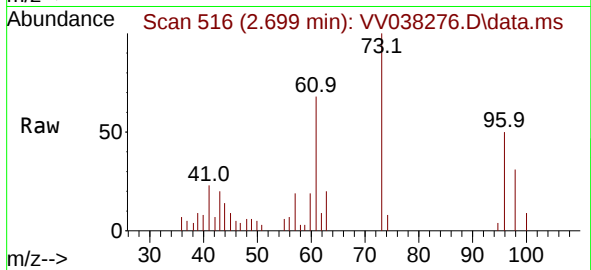




#17
Methyl tert-butyl Ether
Concen: 0.220 ug/L
RT: 2.699 min Scan# 515
Delta R.T. 0.003 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

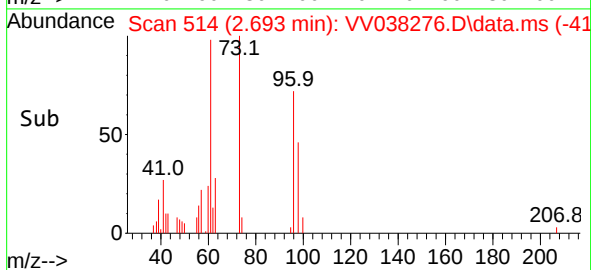
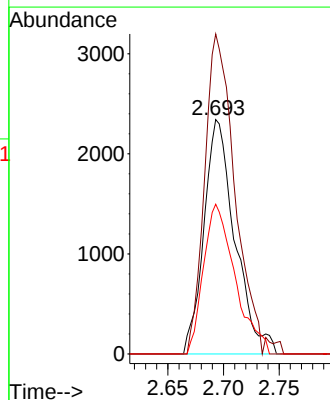
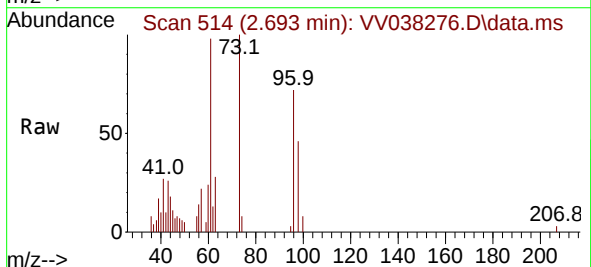
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ClientSampleId :

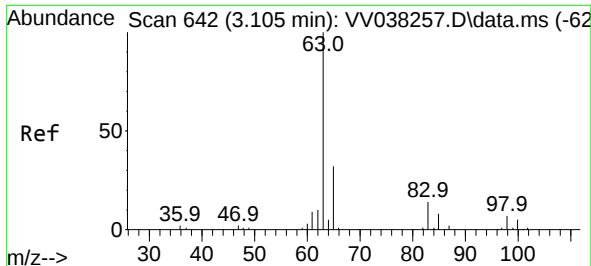
Tgt Ion: 73 Resp: 8868
Ion Ratio Lower Upper
73 100
43 19.9 14.2 21.2
57 21.8 17.6 26.4



#18
trans-1,2-Dichloroethene
Concen: 0.242 ug/L
RT: 2.693 min Scan# 514
Delta R.T. 0.006 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

Tgt Ion: 96 Resp: 4543
Ion Ratio Lower Upper
96 100
61 136.5 88.5 164.4
98 63.9 43.9 81.5

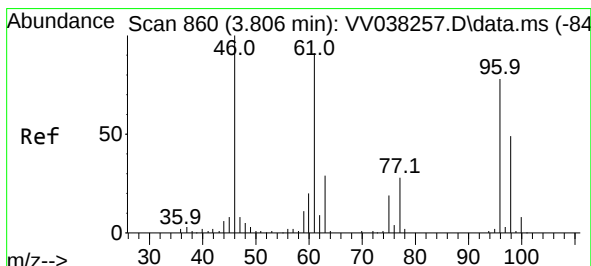
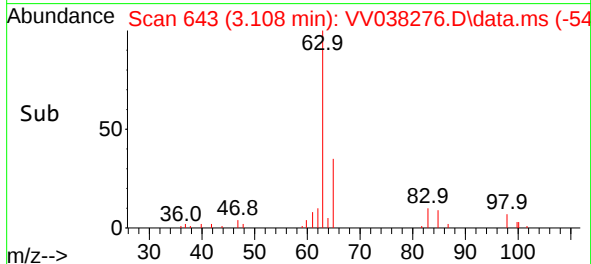
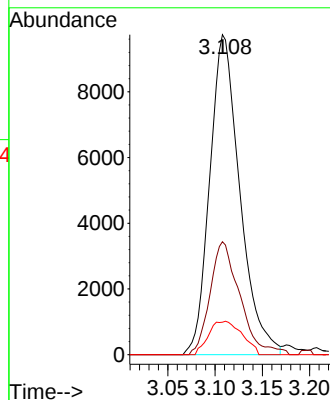
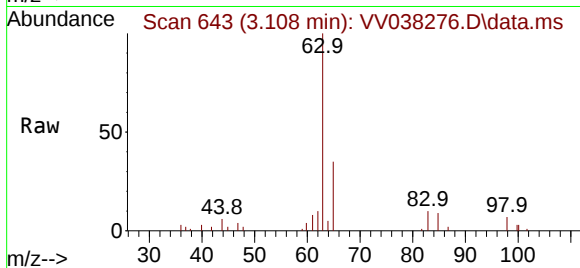




#19
1,1-Dichloroethane
Concen: 0.632 ug/L
RT: 3.108 min Scan# 64
Delta R.T. 0.003 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

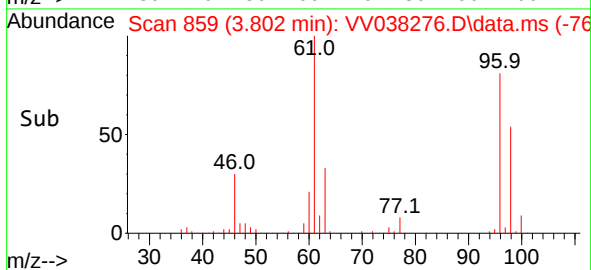
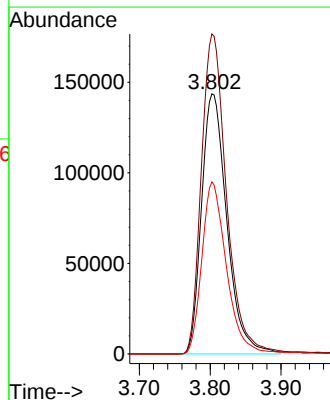
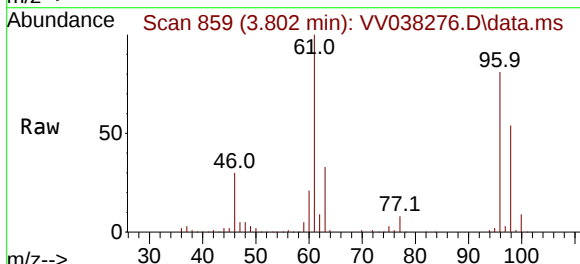
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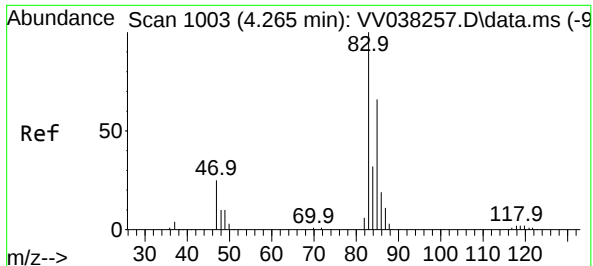
Tgt Ion: 63 Resp: 21571
Ion Ratio Lower Upper
63 100
65 35.3 22.5 41.7
83 10.1 10.1 18.9#



#22
cis-1,2-Dichloroethene
Concen: 18.319 ug/L
RT: 3.802 min Scan# 859
Delta R.T. -0.003 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

Tgt Ion: 96 Resp: 356276
Ion Ratio Lower Upper
96 100
61 123.0 82.7 153.5
98 66.1 46.3 85.9





#25

Chloroform

Concen: 0.321 ug/L

RT: 4.272 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV038276.D

Acq: 22 Nov 2024 17:54

Instrument :

MSVOA_V

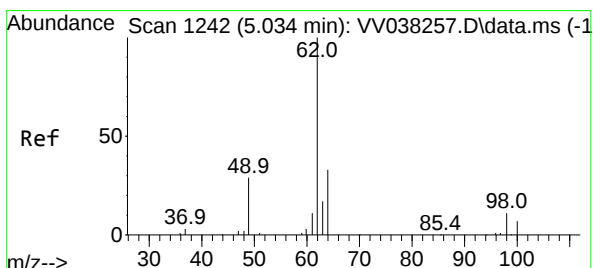
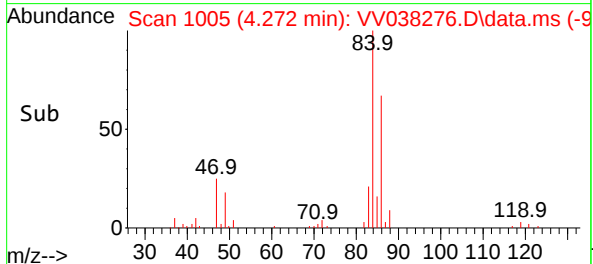
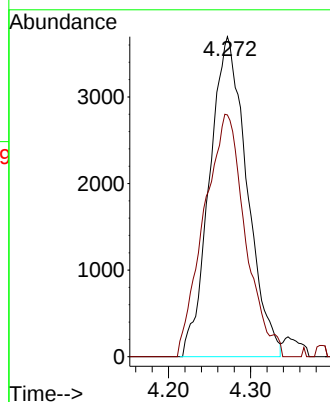
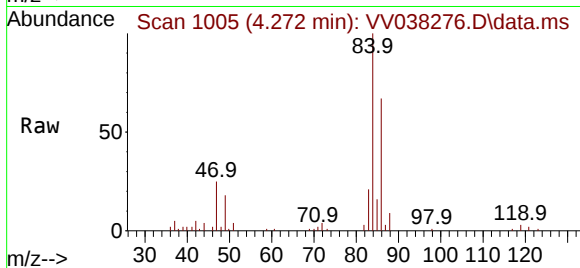
ClientSampleId :

Tgt Ion: 83 Resp: 11710

Ion Ratio Lower Upper

83 100

85 75.6 46.5 86.3



#27

1,2-Dichloroethane

Concen: 0.222 ug/L

RT: 5.066 min Scan# 1252

Delta R.T. 0.032 min

Lab File: VV038276.D

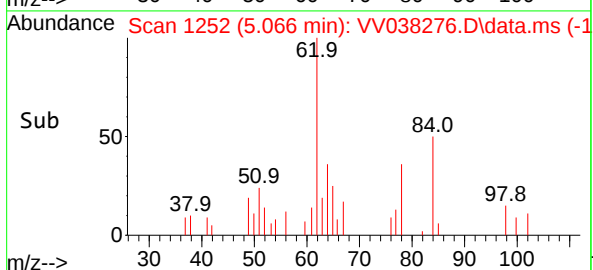
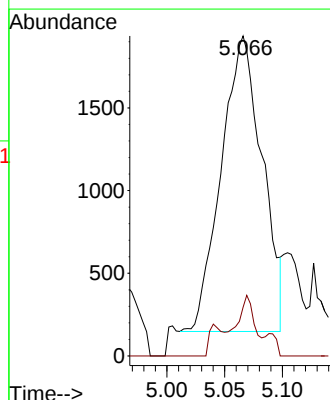
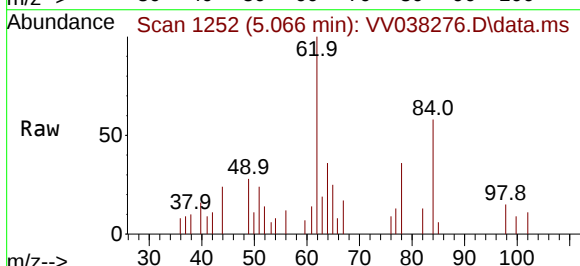
Acq: 22 Nov 2024 17:54

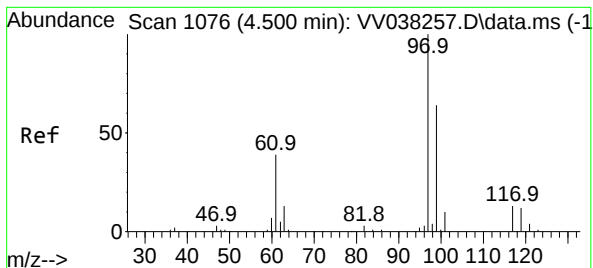
Tgt Ion: 62 Resp: 4409

Ion Ratio Lower Upper

62 100

98 15.2 8.2 12.4#





#29

1,1,1-Trichloroethane

Concen: 2.233 ug/L

RT: 4.503 min Scan# 1077

Delta R.T. 0.003 min

Lab File: VV038276.D

Acq: 22 Nov 2024 17:54

Instrument :

MSVOA_V

ClientSampleId :

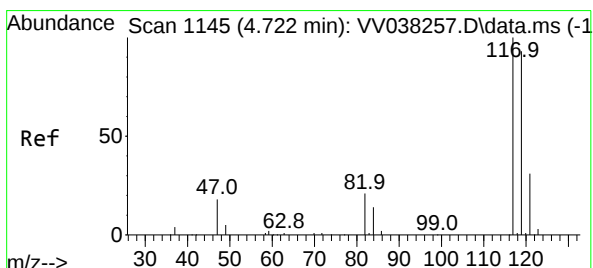
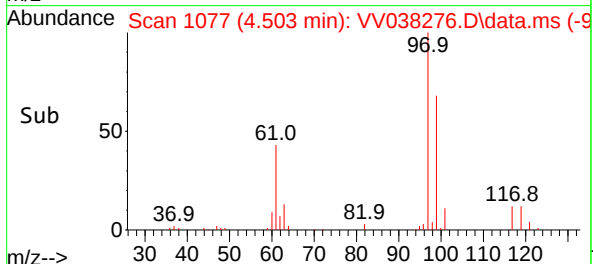
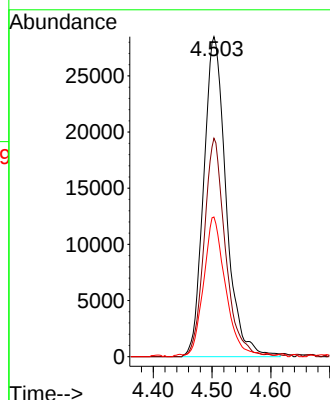
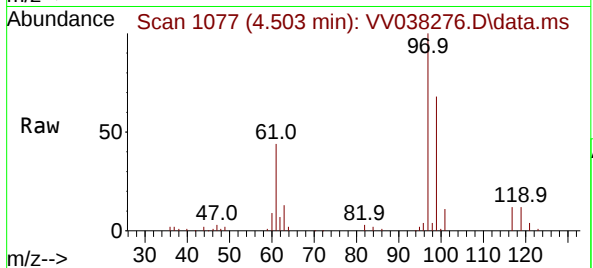
Tgt Ion: 97 Resp: 75562

Ion Ratio Lower Upper

97 100

99 64.5 51.8 77.8

61 40.9 32.2 48.2



#31

Carbon tetrachloride

Concen: 0.334 ug/L

RT: 4.506 min Scan# 1078

Delta R.T. -0.216 min

Lab File: VV038276.D

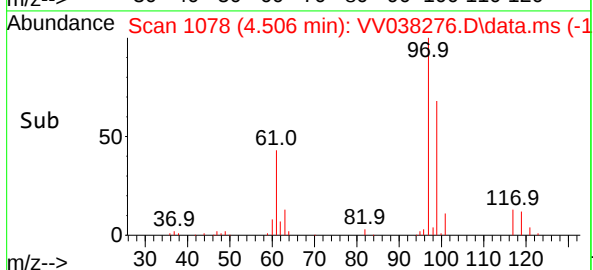
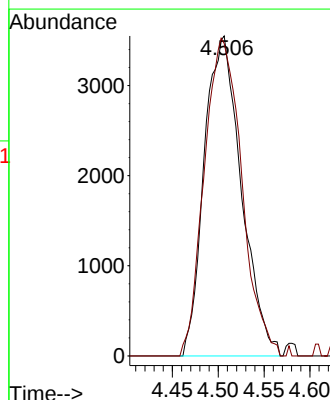
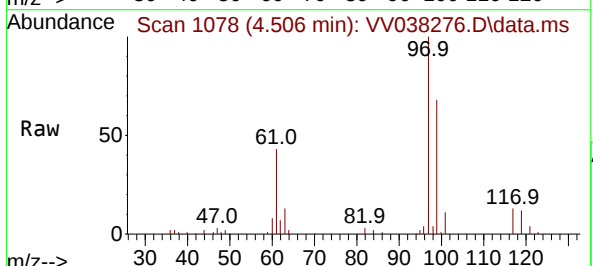
Acq: 22 Nov 2024 17:54

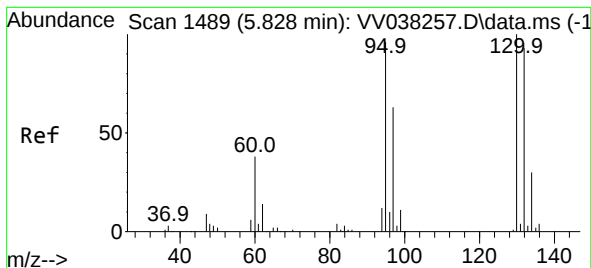
Tgt Ion: 117 Resp: 9985

Ion Ratio Lower Upper

117 100

119 100.3 77.4 116.2





#34

Trichloroethene

Concen: 280.976 ug/L

RT: 5.821 min Scan# 1489

Delta R.T. -0.007 min

Lab File: VV038276.D

Acq: 22 Nov 2024 17:54

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 6070867

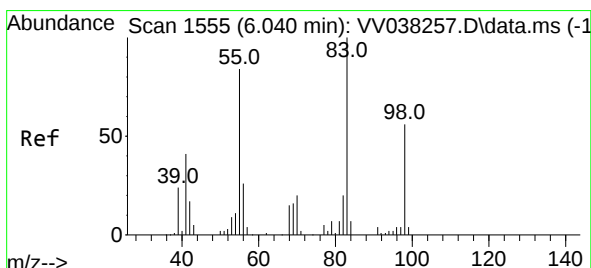
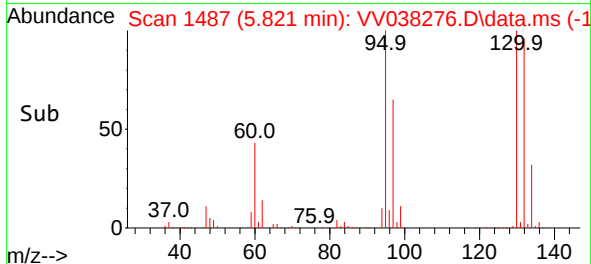
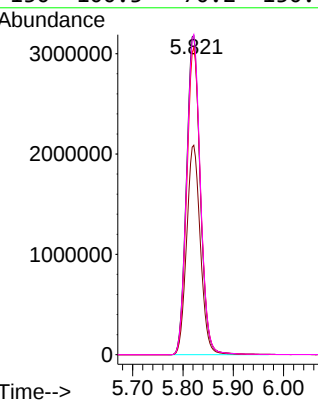
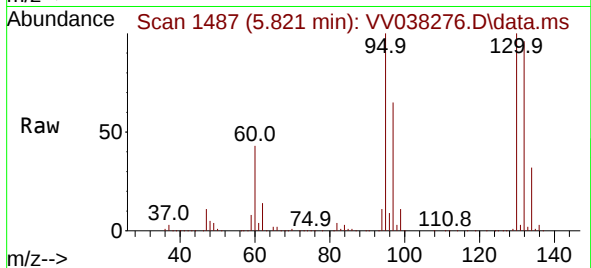
Ion Ratio Lower Upper

95 100

97 65.7 44.8 83.2

132 96.3 68.3 126.8

130 100.3 70.2 130.4



#35

Methylcyclohexane

Concen: 0.828 ug/L

RT: 5.982 min Scan# 1537

Delta R.T. -0.058 min

Lab File: VV038276.D

Acq: 22 Nov 2024 17:54

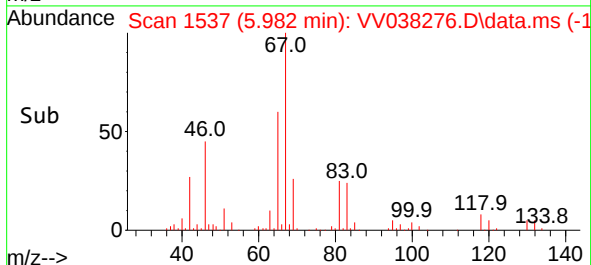
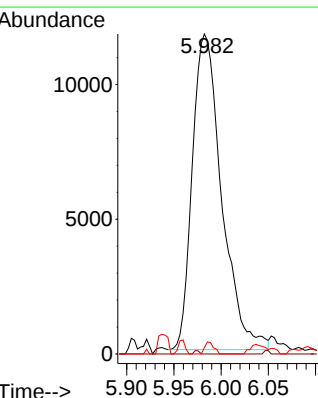
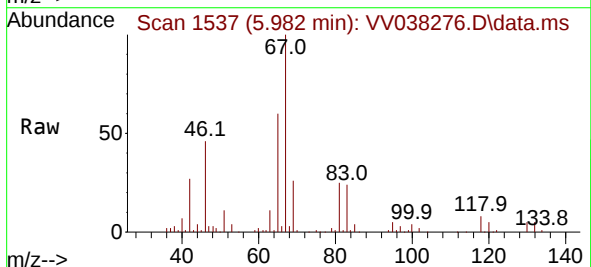
Tgt Ion: 83 Resp: 25299

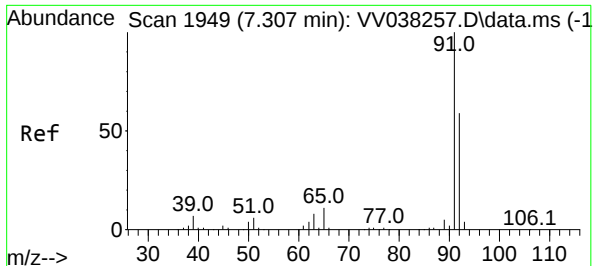
Ion Ratio Lower Upper

83 100

55 0.2 59.7 89.5#

98 0.0 39.0 58.4#

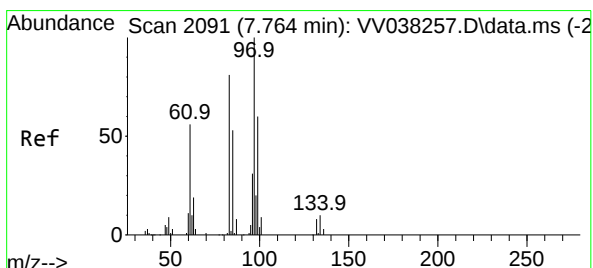
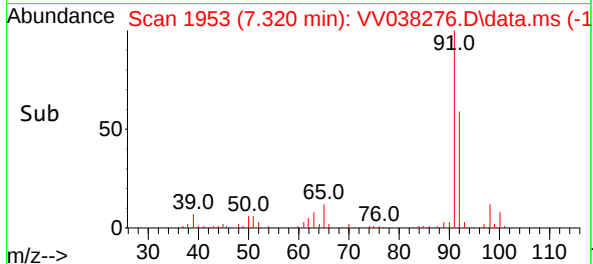
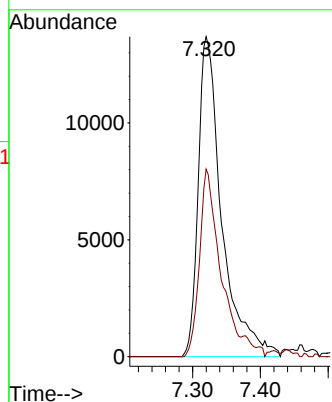
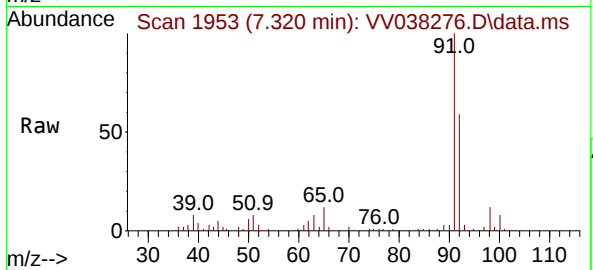




#42
Toluene
Concen: 0.393 ug/L
RT: 7.320 min Scan# 1949
Delta R.T. 0.013 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

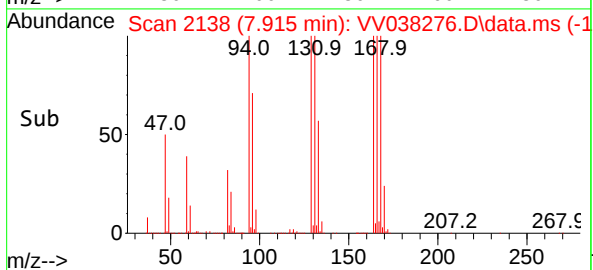
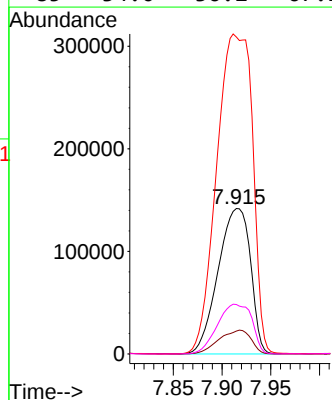
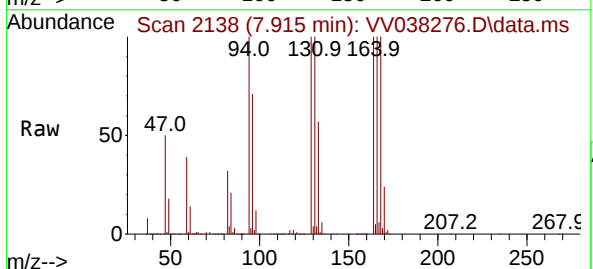
Instrument :
MSVOA_V
ClientSampleId :

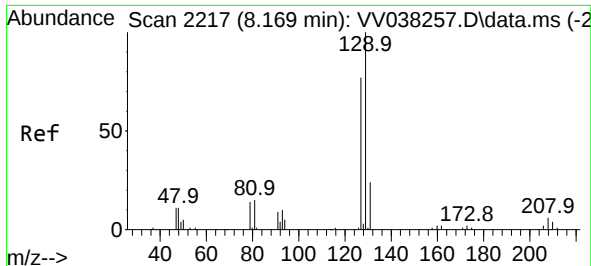
Tgt Ion: 91 Resp: 32972
Ion Ratio Lower Upper
91 100
92 58.6 40.8 75.8



#45
1,1,2-Trichloroethane
Concen: 20.417 ug/L
RT: 7.915 min Scan# 2138
Delta R.T. 0.151 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

Tgt Ion: 97 Resp: 328725
Ion Ratio Lower Upper
97 100
99 15.7 41.9 77.7#
83 217.9 57.7 107.1#
85 34.0 36.2 67.2#

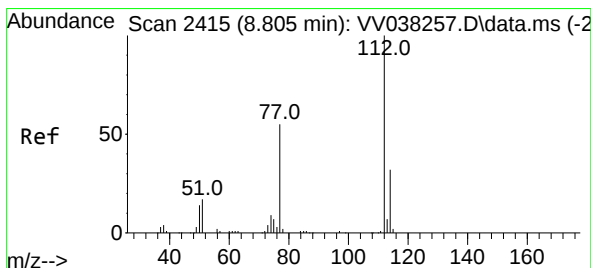
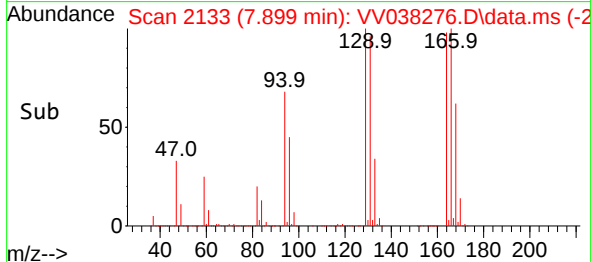
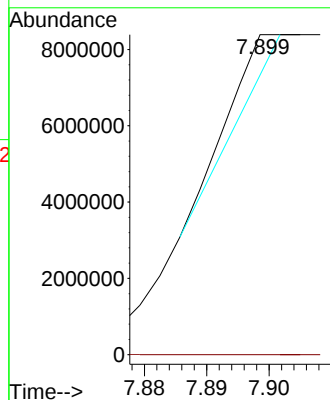
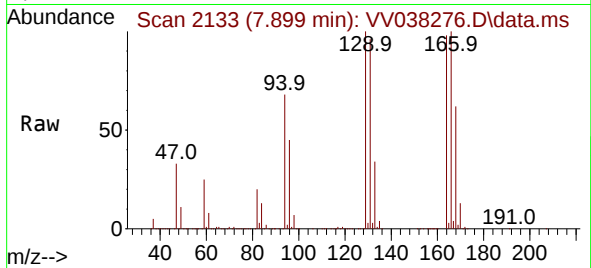




#49
Dibromochloromethane
Concen: 83.110 ug/L
RT: 7.899 min Scan# 2133
Delta R.T. -0.270 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

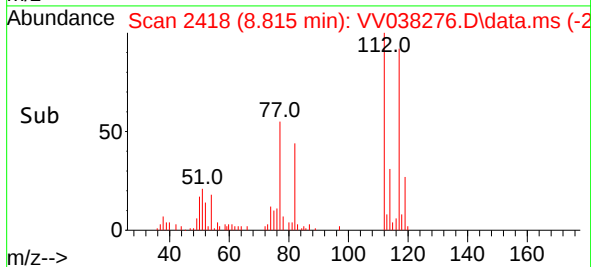
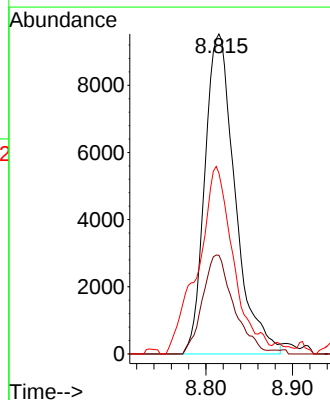
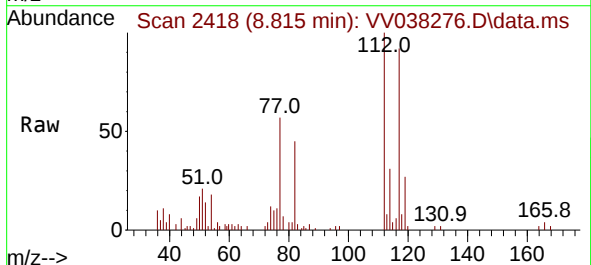
Instrument :
MSVOA_V
ClientSampleId :

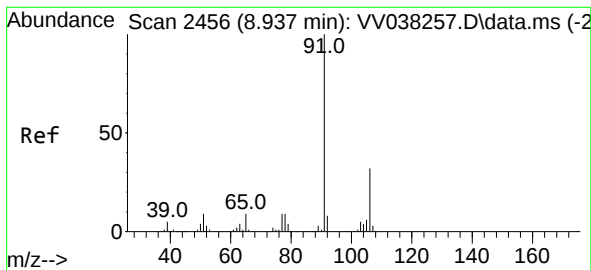
Tgt Ion:129 Resp: 1458919
Ion Ratio Lower Upper
129 100
127 0.0 53.5 99.3#



#51
Chlorobenzene
Concen: 0.401 ug/L
RT: 8.815 min Scan# 2418
Delta R.T. 0.009 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

Tgt Ion:112 Resp: 23167
Ion Ratio Lower Upper
112 100
114 30.8 22.0 40.8
77 56.5 45.0 67.4





#52

Ethylbenzene

Concen: 0.105 ug/L

RT: 8.953 min Scan# 2456

Delta R.T. 0.016 min

Lab File: VV038276.D

Acq: 22 Nov 2024 17:54

Instrument :

MSVOA_V

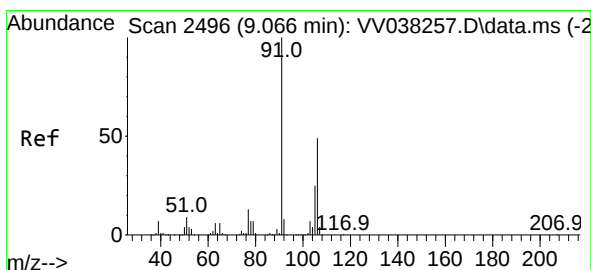
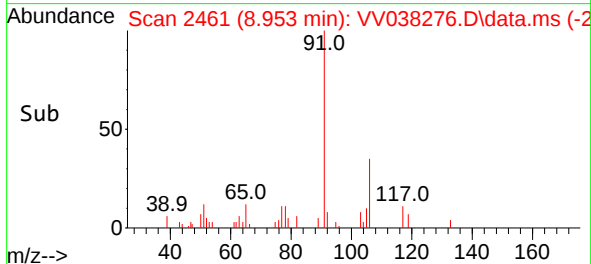
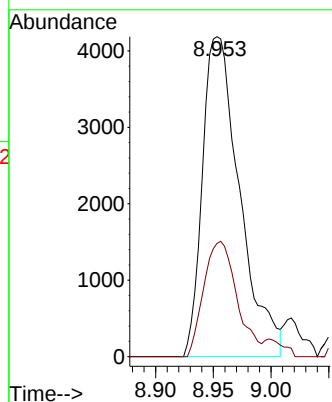
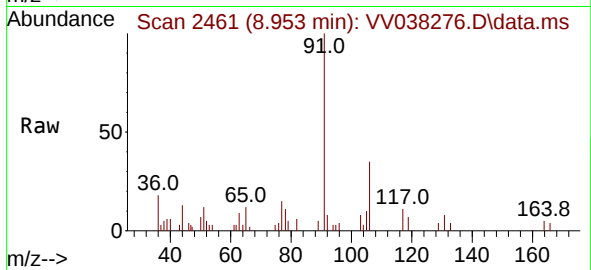
ClientSampleId :

Tgt Ion: 91 Resp: 9390

Ion Ratio Lower Upper

91 100

106 35.4 21.8 40.4



#53

m,p-Xylene

Concen: 0.179 ug/L

RT: 9.075 min Scan# 2499

Delta R.T. 0.009 min

Lab File: VV038276.D

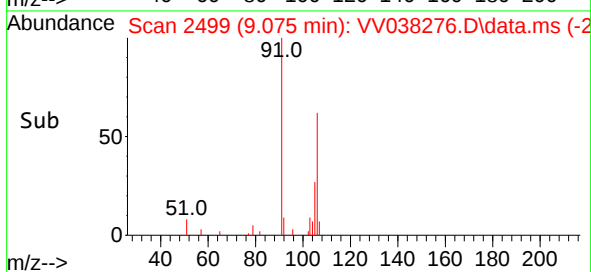
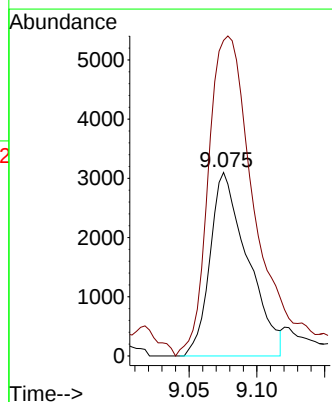
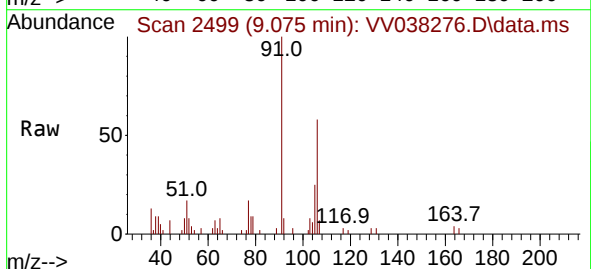
Acq: 22 Nov 2024 17:54

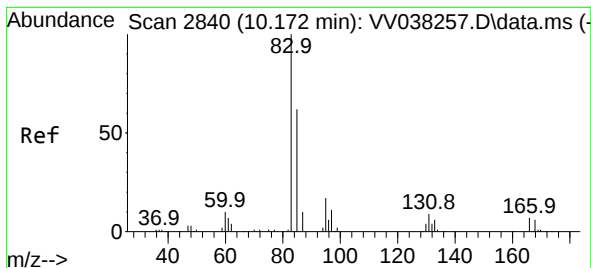
Tgt Ion:106 Resp: 6004

Ion Ratio Lower Upper

106 100

91 171.9 138.7 257.5

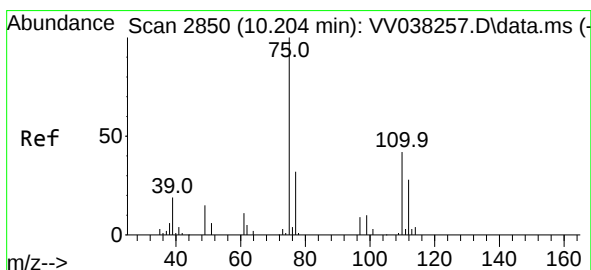
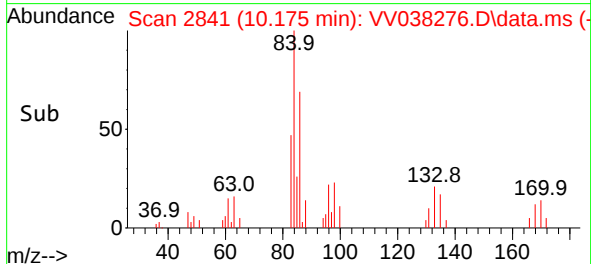
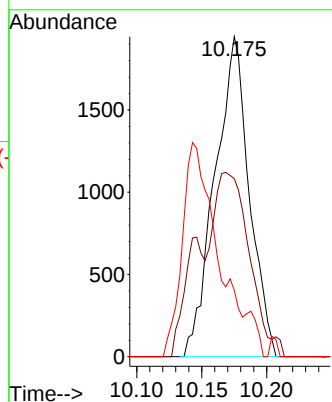
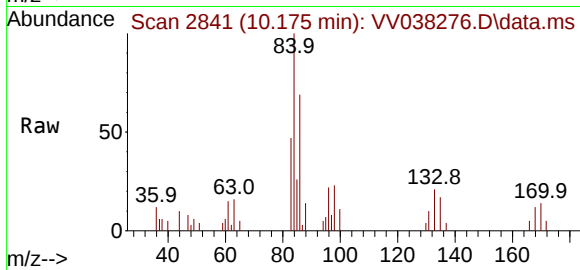




#57
1,1,2,2-Tetrachloroethane
Concen: 0.190 ug/L
RT: 10.175 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

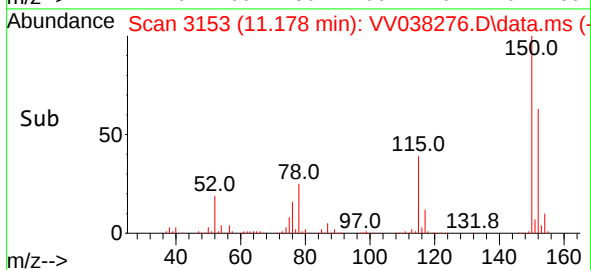
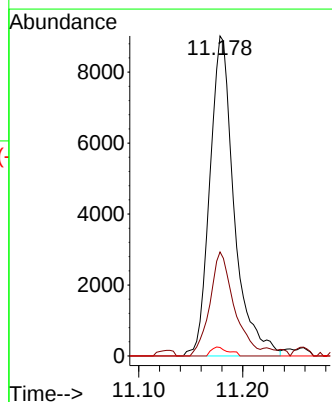
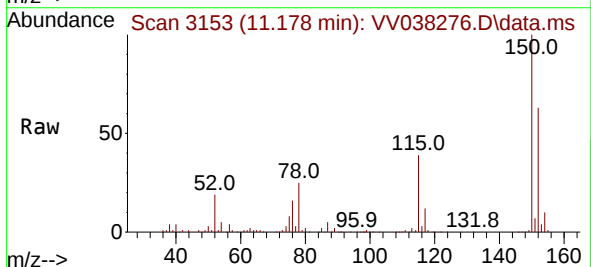
Instrument :
MSVOA_V
ClientSampleId :

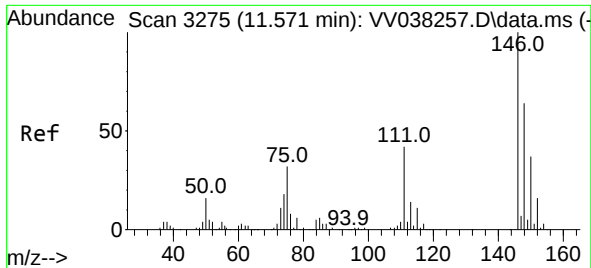
Tgt Ion: 83 Resp: 3573
Ion Ratio Lower Upper
83 100
85 55.7 45.7 84.9
131 20.8 8.2 12.4#



#61
1,2,3-Trichloropropane
Concen: 1.414 ug/L
RT: 11.178 min Scan# 3153
Delta R.T. 0.974 min
Lab File: VV038276.D
Acq: 22 Nov 2024 17:54

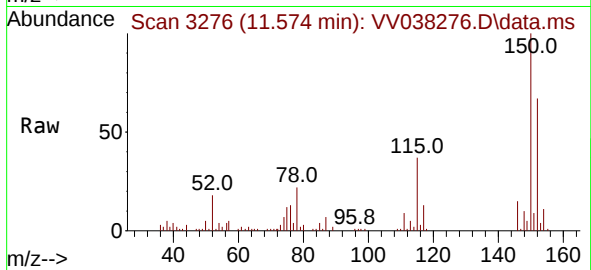
Tgt Ion: 75 Resp: 14656
Ion Ratio Lower Upper
75 100
77 32.4 26.4 39.6
110 1.9 32.3 48.5#





#67
 1,2-Dichlorobenzene
 Concen: 0.182 ug/L
 RT: 11.574 min Scan# 31
 Delta R.T. 0.003 min
 Lab File: VV038276.D
 Acq: 22 Nov 2024 17:54

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion:146 Resp: 6325
 Ion Ratio Lower Upper
 146 100
 111 57.6 34.2 51.2#
 148 67.3 51.0 76.4

