

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL092120\
 Data File : VL035700.D
 Acq On : 22 Sep 2020 00:03
 Operator : SY/AP
 Sample : L3983-01DL 300X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-8DL

Manual Integrations
 APPROVED

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 9/22/2020 2:06:06 PM

Quant Time: Sep 22 10:48:28 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep 14 2020
 QLast Update : Mon Sep 14 15:19:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.64	49	1034141	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	3704565	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	3778284	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2756290	10.27	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
15) Acetone	3.84	43	240310	2.107	ppbv	97
22) trans-1,2-Dichloroethene	4.86	96	32858	0.355	ppbv	93
31) cis-1,2-Dichloroethene	5.52	61	1114274	9.513	ppbv	95
38) Trichloroethene	7.81	130	4721630	33.897	ppbv	93
52) Tetrachloroethene	11.21	164	11156674m	79.639	ppbv	

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

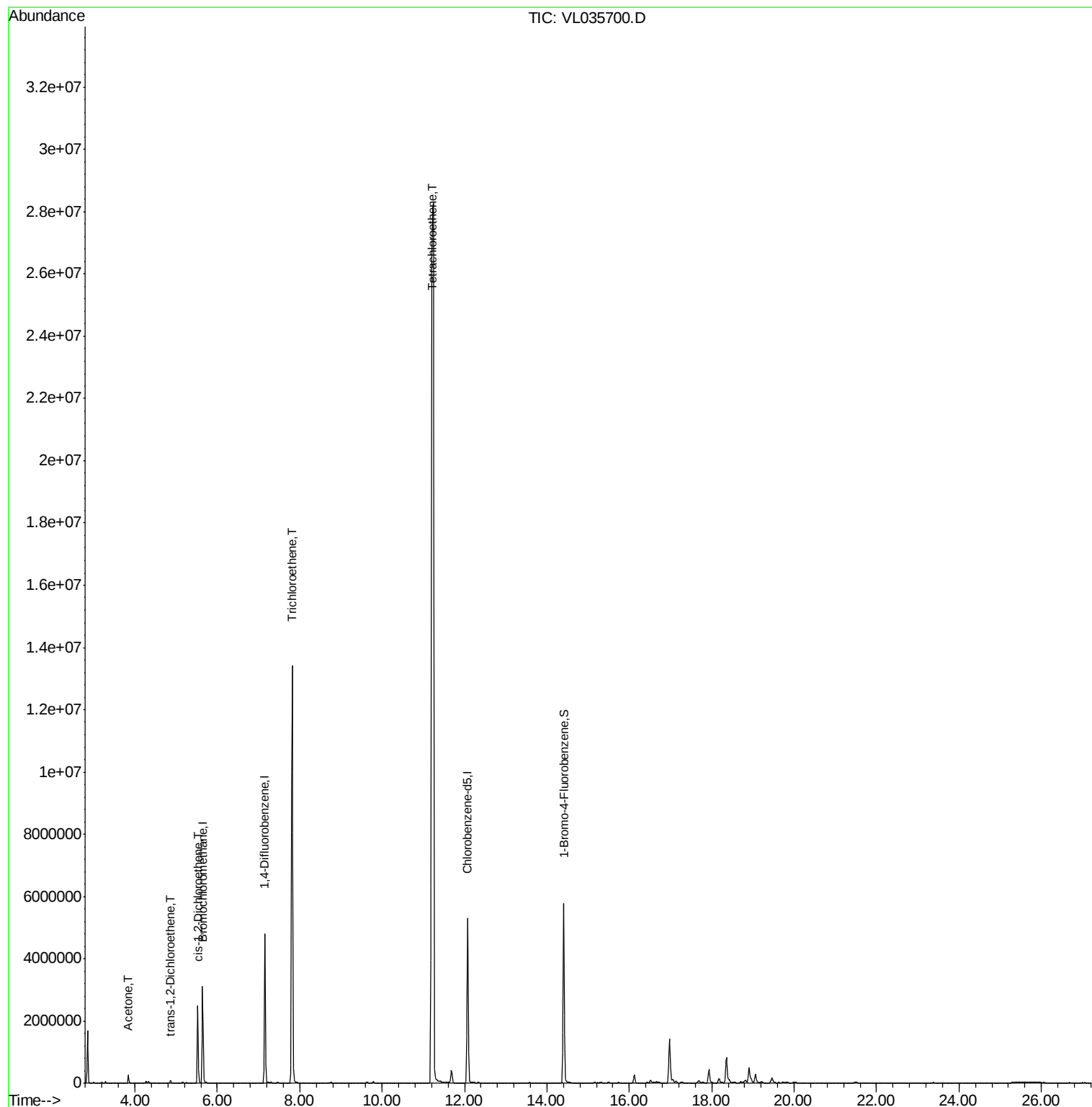
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL092120\
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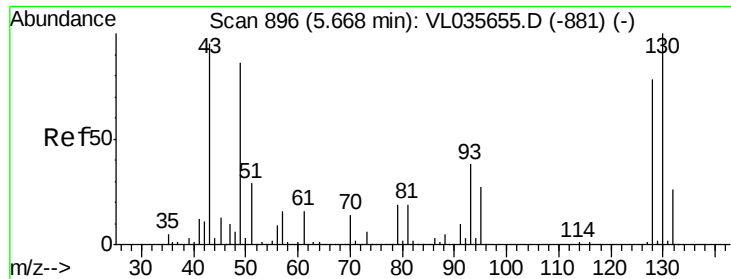
Instrument :
MSVOA_L
ClientSampleId :
SV-8DL

Manual Integrations
APPROVED

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9/22/2020 2:06:06 PM

Quant Time: Sep 22 10:48:28 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL082720AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Sep
QLast Update : Mon Sep 14 15:19:50 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.64 min Scan# 888

Delta R.T. -0.02 min

Lab File: VL035700.D

Acq: 22 Sep 2020 00:03

Instrument :

MSVOA_L

ClientSampled :

SV-8DL

Tot Ion: 49 Resp: 1034141

Ion Ratio Lower Upper

49 100

128 83.7 50.0 150.1

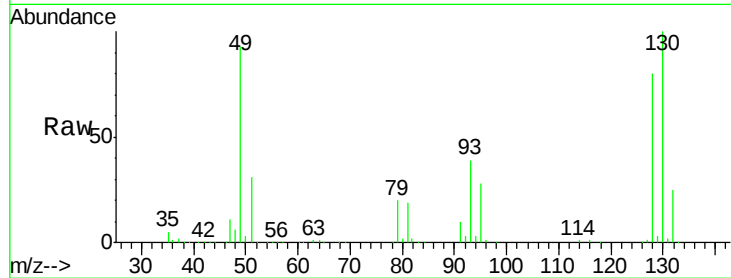
130 107.6 64.4 193.2

Manual Integrations

APPROVED

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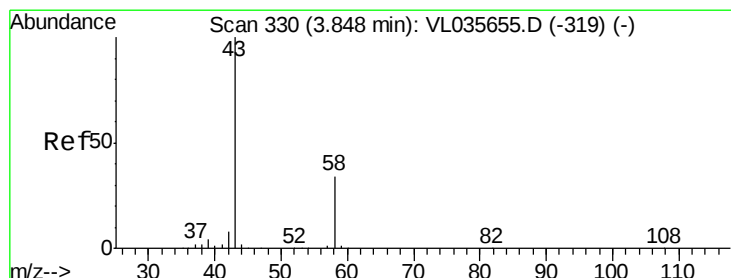
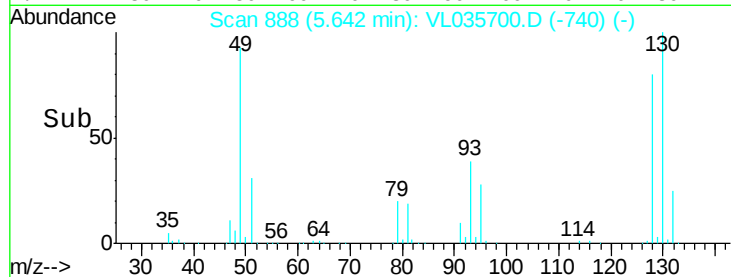
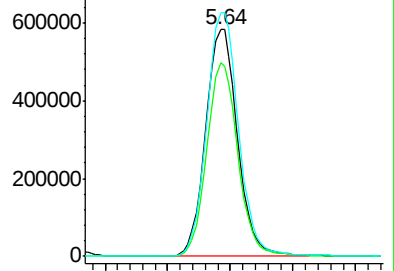
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#15

Acetone

Concen: 2.107 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.00 min

Lab File: VL035700.D

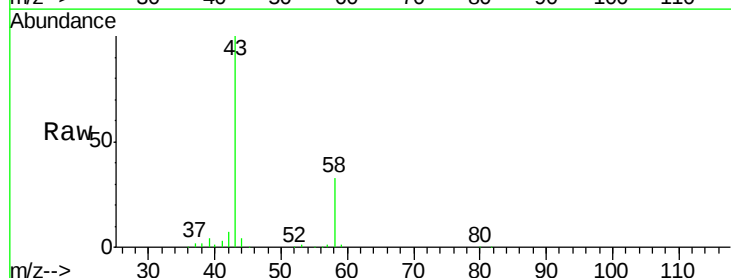
Acq: 22 Sep 2020 00:03

Tgt Ion: 43 Resp: 240310

Ion Ratio Lower Upper

43 100

58 37.4 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 80.10 (79.80 to 80.80): VL0

Ion 108.10 (107.80 to 108.80): VL0

Ion 130.10 (129.80 to 130.80): VL0

Ion 152.10 (151.80 to 152.80): VL0

Ion 174.10 (173.80 to 174.80): VL0

Ion 196.10 (195.80 to 196.80): VL0

Ion 218.10 (217.80 to 218.80): VL0

Ion 240.10 (239.80 to 240.80): VL0

Ion 262.10 (261.80 to 262.80): VL0

Ion 284.10 (283.80 to 284.80): VL0

Ion 306.10 (305.80 to 306.80): VL0

Ion 328.10 (327.80 to 328.80): VL0

Ion 350.10 (349.80 to 350.80): VL0

Ion 372.10 (371.80 to 372.80): VL0

Ion 394.10 (393.80 to 394.80): VL0

Ion 416.10 (415.80 to 416.80): VL0

Ion 438.10 (437.80 to 438.80): VL0

Ion 460.10 (459.80 to 460.80): VL0

Ion 482.10 (481.80 to 482.80): VL0

Ion 504.10 (503.80 to 504.80): VL0

Ion 526.10 (525.80 to 526.80): VL0

Ion 548.10 (547.80 to 548.80): VL0

Ion 570.10 (569.80 to 570.80): VL0

Ion 592.10 (591.80 to 592.80): VL0

Ion 614.10 (613.80 to 614.80): VL0

Ion 636.10 (635.80 to 636.80): VL0

Ion 658.10 (657.80 to 658.80): VL0

Ion 680.10 (679.80 to 680.80): VL0

Ion 702.10 (701.80 to 702.80): VL0

Ion 724.10 (723.80 to 724.80): VL0

Ion 746.10 (745.80 to 746.80): VL0

Ion 768.10 (767.80 to 768.80): VL0

Ion 790.10 (789.80 to 790.80): VL0

Ion 812.10 (811.80 to 812.80): VL0

Ion 834.10 (833.80 to 834.80): VL0

Ion 856.10 (855.80 to 856.80): VL0

Ion 878.10 (877.80 to 878.80): VL0

Ion 900.10 (899.80 to 900.80): VL0

Ion 922.10 (921.80 to 922.80): VL0

Ion 944.10 (943.80 to 944.80): VL0

Ion 966.10 (965.80 to 966.80): VL0

Ion 988.10 (987.80 to 988.80): VL0

Ion 1010.10 (1009.80 to 1010.80): VL0

Ion 1032.10 (1031.80 to 1032.80): VL0

Ion 1054.10 (1053.80 to 1054.80): VL0

Ion 1076.10 (1075.80 to 1076.80): VL0

Ion 1098.10 (1097.80 to 1098.80): VL0

Ion 1120.10 (1119.80 to 1120.80): VL0

Ion 1142.10 (1141.80 to 1142.80): VL0

Ion 1164.10 (1163.80 to 1164.80): VL0

Ion 1186.10 (1185.80 to 1186.80): VL0

Ion 1208.10 (1207.80 to 1208.80): VL0

Ion 1230.10 (1229.80 to 1230.80): VL0

Ion 1252.10 (1251.80 to 1252.80): VL0

Ion 1274.10 (1273.80 to 1274.80): VL0

Ion 1296.10 (1295.80 to 1296.80): VL0

Ion 1318.10 (1317.80 to 1318.80): VL0

Ion 1340.10 (1339.80 to 1340.80): VL0

Ion 1362.10 (1361.80 to 1362.80): VL0

Ion 1384.10 (1383.80 to 1384.80): VL0

Ion 1406.10 (1405.80 to 1406.80): VL0

Ion 1428.10 (1427.80 to 1428.80): VL0

Ion 1450.10 (1449.80 to 1450.80): VL0

Ion 1472.10 (1471.80 to 1472.80): VL0

Ion 1494.10 (1493.80 to 1494.80): VL0

Ion 1516.10 (1515.80 to 1516.80): VL0

Ion 1538.10 (1537.80 to 1538.80): VL0

Ion 1560.10 (1559.80 to 1560.80): VL0

Ion 1582.10 (1581.80 to 1582.80): VL0

Ion 1604.10 (1603.80 to 1604.80): VL0

Ion 1626.10 (1625.80 to 1626.80): VL0

Ion 1648.10 (1647.80 to 1648.80): VL0

Ion 1670.10 (1669.80 to 1670.80): VL0

Ion 1692.10 (1691.80 to 1692.80): VL0

Ion 1714.10 (1713.80 to 1714.80): VL0

Ion 1736.10 (1735.80 to 1736.80): VL0

Ion 1758.10 (1757.80 to 1758.80): VL0

Ion 1780.10 (1779.80 to 1780.80): VL0

Ion 1802.10 (1801.80 to 1802.80): VL0

Ion 1824.10 (1823.80 to 1824.80): VL0

Ion 1846.10 (1845.80 to 1846.80): VL0

Ion 1868.10 (1867.80 to 1868.80): VL0

Ion 1890.10 (1889.80 to 1890.80): VL0

Ion 1912.10 (1911.80 to 1912.80): VL0

Ion 1934.10 (1933.80 to 1934.80): VL0

Ion 1956.10 (1955.80 to 1956.80): VL0

Ion 1978.10 (1977.80 to 1978.80): VL0

Ion 2000.10 (1999.80 to 2000.80): VL0

Ion 2022.10 (2021.80 to 2022.80): VL0

Ion 2044.10 (2043.80 to 2044.80): VL0

Ion 2066.10 (2065.80 to 2066.80): VL0

Ion 2088.10 (2087.80 to 2088.80): VL0

Ion 2110.10 (2109.80 to 2110.80): VL0

Ion 2132.10 (2131.80 to 2132.80): VL0

Ion 2154.10 (2153.80 to 2154.80): VL0

Ion 2176.10 (2175.80 to 2176.80): VL0

Ion 2198.10 (2197.80 to 2198.80): VL0

Ion 2220.10 (2219.80 to 2220.80): VL0

Ion 2242.10 (2241.80 to 2242.80): VL0

Ion 2264.10 (2263.80 to 2264.80): VL0

Ion 2286.10 (2285.80 to 2286.80): VL0

Ion 2308.10 (2307.80 to 2308.80): VL0

Ion 2330.10 (2329.80 to 2330.80): VL0

Ion 2352.10 (2351.80 to 2352.80): VL0

Ion 2374.10 (2373.80 to 2374.80): VL0

Ion 2396.10 (2395.80 to 2396.80): VL0

Ion 2418.10 (2417.80 to 2418.80): VL0

Ion 2440.10 (2439.80 to 2440.80): VL0

Ion 2462.10 (2461.80 to 2462.80): VL0

Ion 2484.10 (2483.80 to 2484.80): VL0

Ion 2506.10 (2505.80 to 2506.80): VL0

Ion 2528.10 (2527.80 to 2528.80): VL0

Ion 2550.10 (2549.80 to 2550.80): VL0

Ion 2572.10 (2571.80 to 2572.80): VL0

Ion 2594.10 (2593.80 to 2594.80): VL0

Ion 2616.10 (2615.80 to 2616.80): VL0

Ion 2638.10 (2637.80 to 2638.80): VL0

Ion 2660.10 (2659.80 to 2660.80): VL0

Ion 2682.10 (2681.80 to 2682.80): VL0

Ion 2704.10 (2703.80 to 2704.80): VL0

Ion 2726.10 (2725.80 to 2726.80): VL0

Ion 2748.10 (2747.80 to 2748.80): VL0

Ion 2770.10 (2769.80 to 2770.80): VL0

Ion 2792.10 (2791.80 to 2792.80): VL0

Ion 2814.10 (2813.80 to 2814.80): VL0

Ion 2836.10 (2835.80 to 2836.80): VL0

Ion 2858.10 (2857.80 to 2858.80): VL0

Ion 2880.10 (2879.80 to 2880.80): VL0

Ion 2902.10 (2901.80 to 2902.80): VL0

Ion 2924.10 (2923.80 to 2924.80): VL0

Ion 2946.10 (2945.80 to 2946.80): VL0

Ion 2968.10 (2967.80 to 2968.80): VL0

Ion 2990.10 (2989.80 to 2990.80): VL0

Ion 3012.10 (3011.80 to 3012.80): VL0

Ion 3034.10 (3033.80 to 3034.80): VL0

Ion 3056.10 (3055.80 to 3056.80): VL0

Ion 3078.10 (3077.80 to 3078.80): VL0

Ion 3100.10 (3099.80 to 3100.80): VL0

Ion 3122.10 (3121.80 to 3122.80): VL0

Ion 3144.10 (3143.80 to 3144.80): VL0

Ion 3166.10 (3165.80 to 3166.80): VL0

Ion 3188.10 (3187.80 to 3188.80): VL0

Ion 3210.10 (3209.80 to 3210.80): VL0

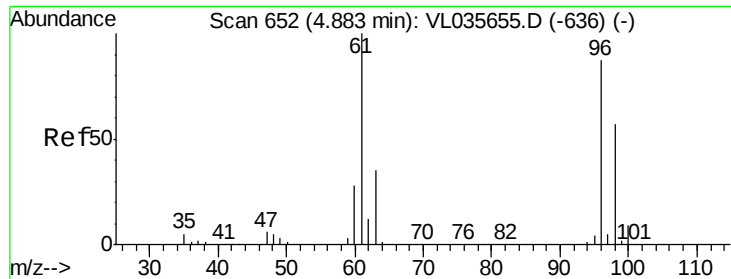
Ion 3232.10 (3231.80 to 3232.80): VL0

Ion 3254.10 (3253.80 to 3254.80): VL0

Ion 3276.10 (3275.80 to 3276.80): VL0

Ion 3298.10 (3297.80 to 3298.80): VL0

Ion 3320.10 (3319.80 to 3320.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.355 ppbv

RT: 4.86 min Scan# 645

Delta R.T. -0.02 min

Lab File: VL035700.D

Acq: 22 Sep 2020 00:03

Instrument :

MSVOA_L

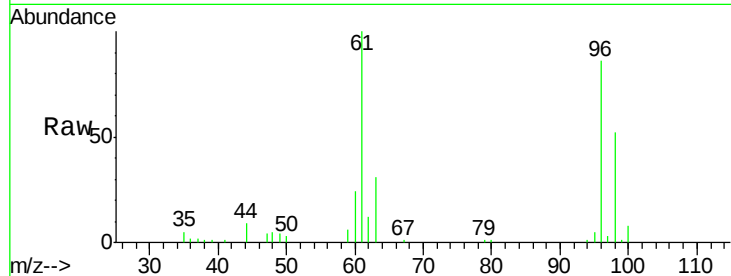
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SV-8DL

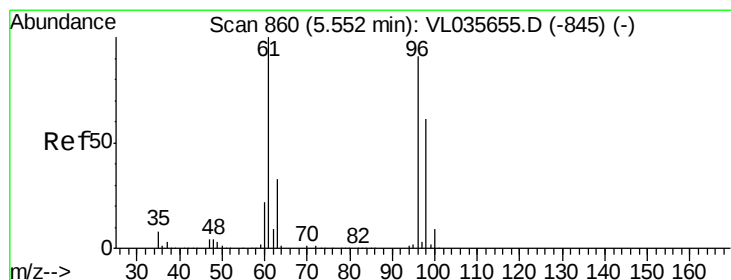
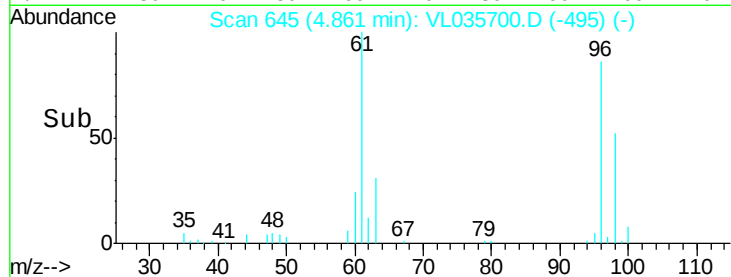
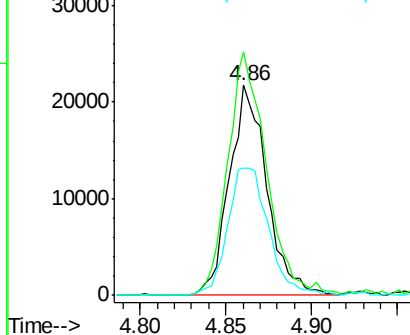
Tot Ion:	96	Resp:	32858
Ion	Ratio	Lower	Upper
96	100		
61	115.8	86.0	129.0
98	60.3	52.3	78.5

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Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0



#31

cis-1,2-Dichloroethene

Concen: 9.513 ppbv

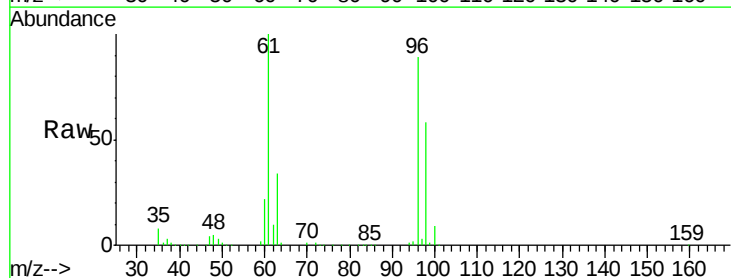
RT: 5.52 min Scan# 851

Delta R.T. -0.02 min

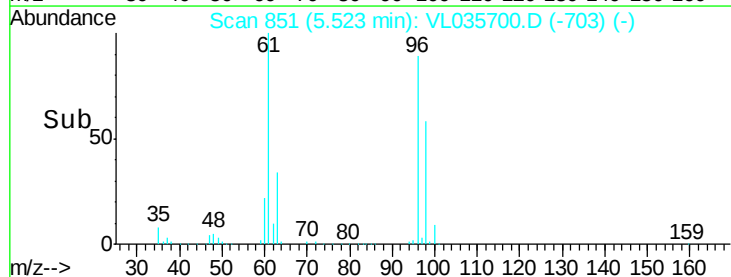
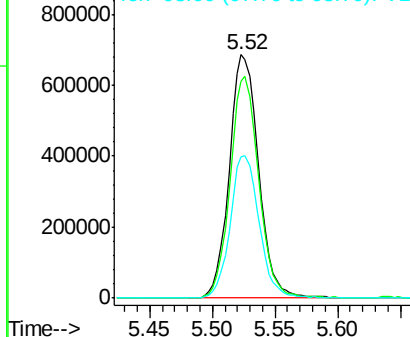
Lab File: VL035700.D

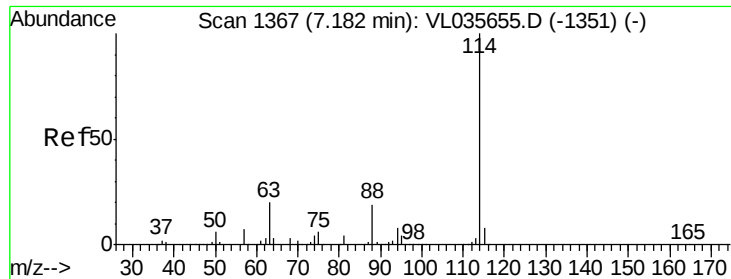
Acq: 22 Sep 2020 00:03

Tgt Ion:	61	Resp:	1114274
Ion	Ratio	Lower	Upper
61	100		
96	88.8	74.4	111.6
98	57.8	49.2	73.8



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0





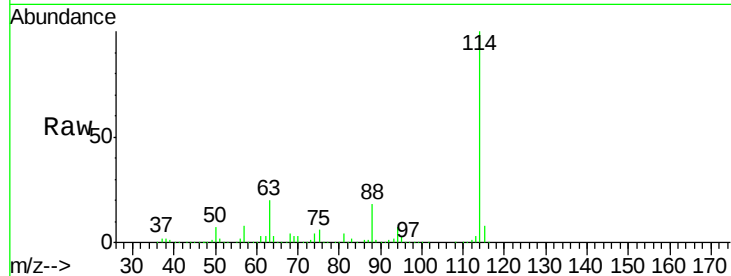
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.02 min
 Lab File: VL035700.D
 Acq: 22 Sep 2020 00:03

Instrument :
 MSVOA_L
 ClientSampled :
 SV-8DL

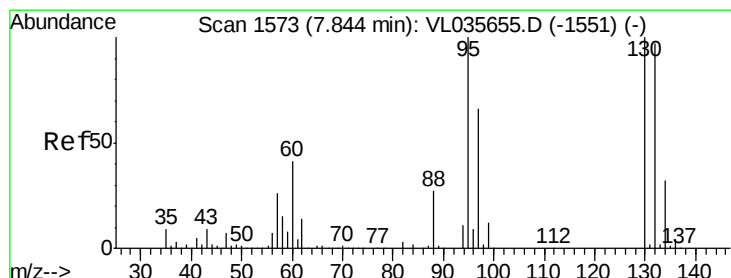
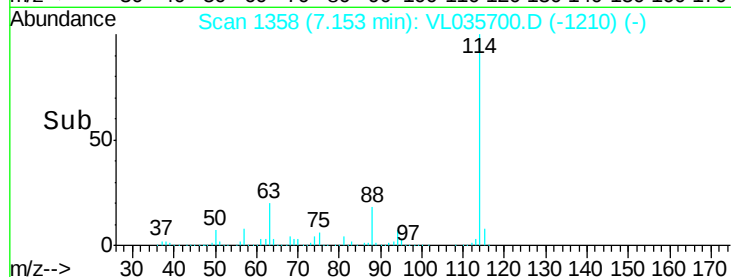
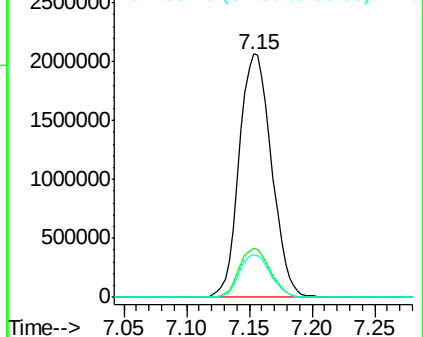
Tot Ion:114 Resp: 3704565
 Ion Ratio Lower Upper
 114 100
 63 19.4 14.7 22.1
 88 17.1 13.4 20.2

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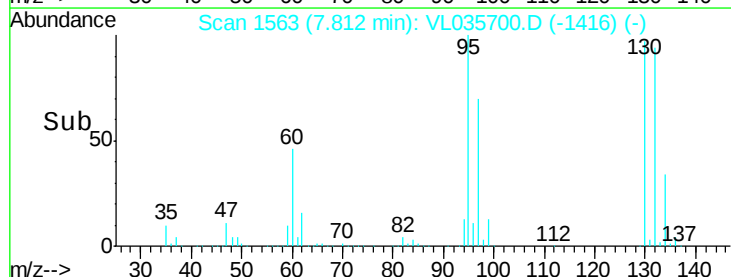
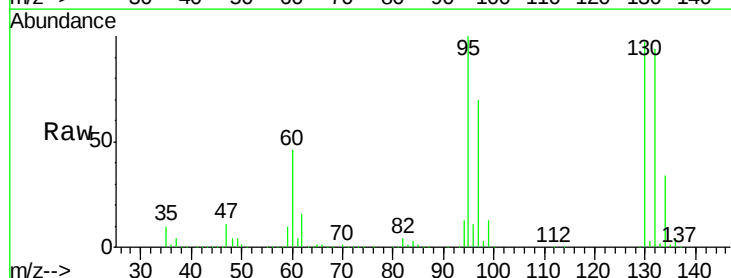
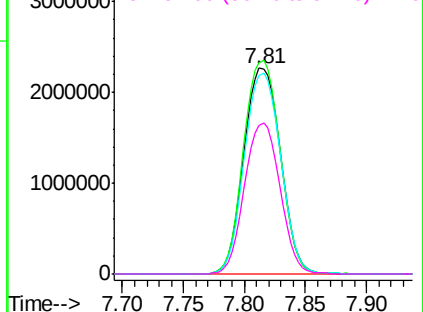
Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

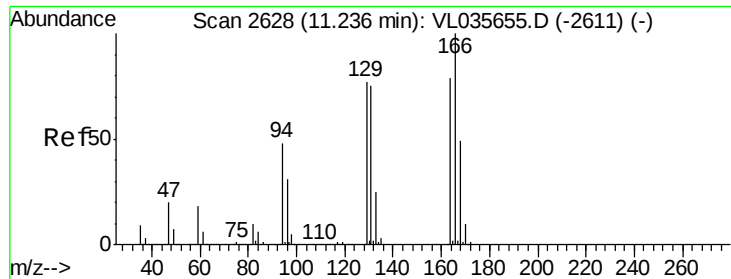


#38
 Trichloroethene
 Concen: 33.897 ppbv
 RT: 7.81 min Scan# 1563
 Delta R.T. -0.03 min
 Lab File: VL035700.D
 Acq: 22 Sep 2020 00:03

Tgt Ion:130 Resp: 4721630
 Ion Ratio Lower Upper
 130 100
 95 102.8 74.6 112.0
 132 96.4 77.6 116.4
 97 72.4 50.6 76.0

Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0





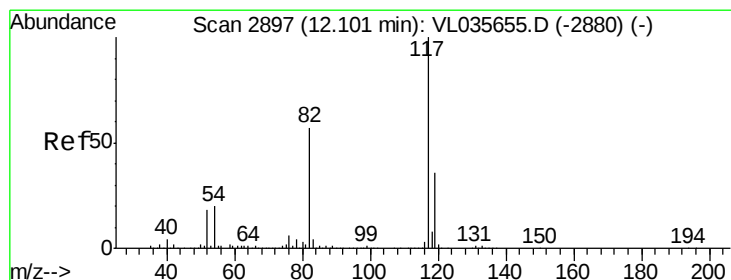
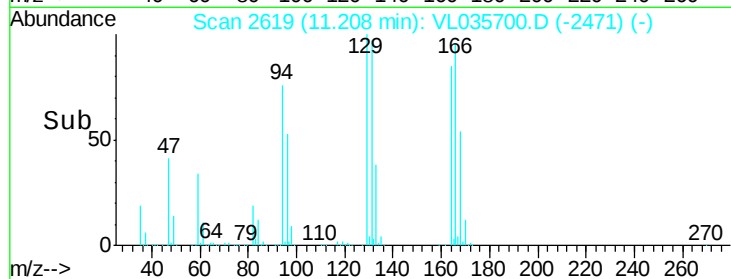
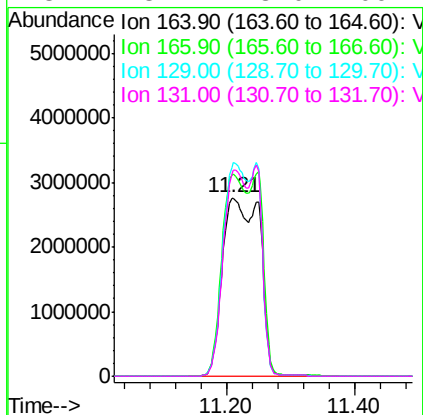
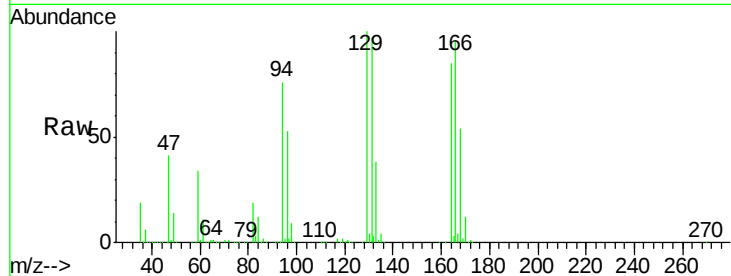
#52
Tetrachloroethene
Concen: 79.639 ppbv m
RT: 11.21 min Scan# 2619
Delta R.T. -0.02 min
Lab File: VL035700.D
Acq: 22 Sep 2020 00:03

Instrument :
MSVOA_L
ClientSampleId :
SV-8DL

Tot Ion:164 Resp:11156674
Ion Ratio Lower Upper
164 100
166 112.8 100.9 151.3
129 117.2 75.3 112.9#
131 113.2 73.0 109.4#

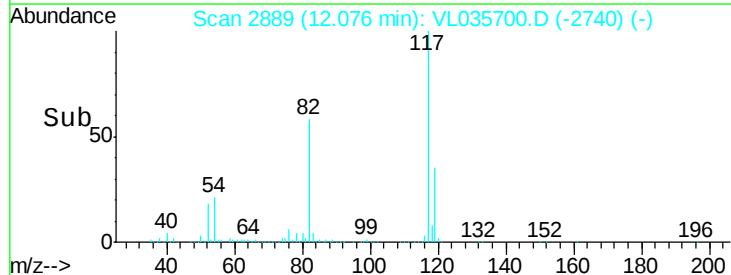
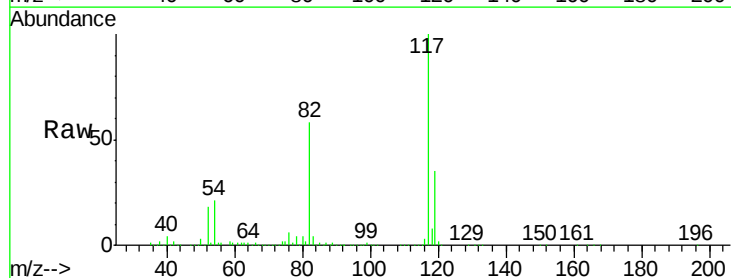
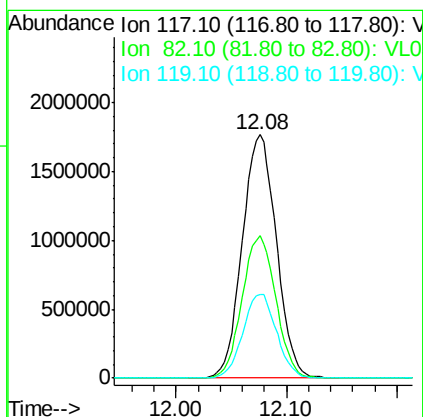
Manual Integrations
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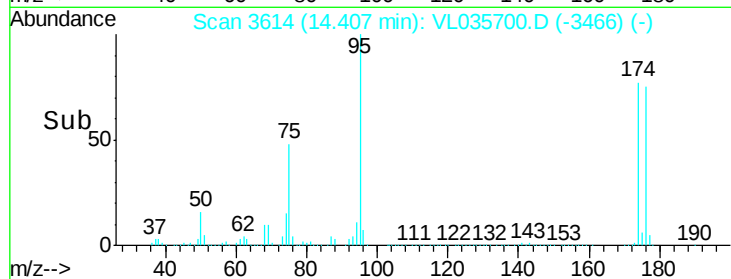
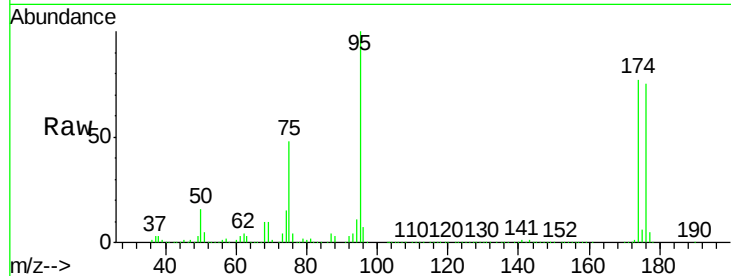
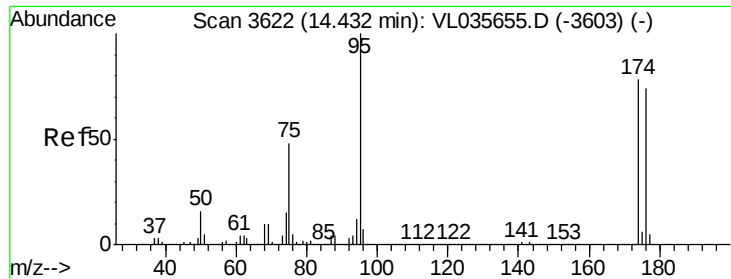
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min Scan# 2889
Delta R.T. -0.02 min
Lab File: VL035700.D
Acq: 22 Sep 2020 00:03

Tgt Ion:117 Resp: 3778284
Ion Ratio Lower Upper
117 100
82 58.1 41.6 62.4
119 34.2 29.3 43.9





#68

1-Bromo-4-Fluorobenzene

Concen: 10.273 ppbv

RT: 14.41 min Scan# 3614

Delta R.T. -0.02 min

Lab File: VL035700.D

Acq: 22 Sep 2020 00:03

Tot Ion: 95 Resp: 2756290

Ion Ratio Lower Upper

95 100

174 77.3 69.6 104.4

175 5.5 5.1 7.7

Instrument :

MSVOA_L

ClientSampleId :

SV-8DL

Manual Integrations

APPROVED

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