

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020321\
 Data File : VL036308.D
 Acq On : 4 Feb 2021 00:34
 Operator : SY/AP
 Sample : M1295-03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-INTERMEDIATE-2

Manual Integrations
 APPROVED

MMDadoda
 2/4/2021 5:15:27 PM

Quant Time: Feb 04 01:49:17 2021

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL011321AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Jan 14 16:13:38 2021

QLast Update : Thu Jan 14 16:13:38 2021

Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.680	49	1571658	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.195	114	3291725	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.111	117	2986486	10.00	ppbv	0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.442	95	2463927	9.97	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.060	85	51590m	0.24	ppbv	
3) Chlorodifluoromethane	2.999	51	89472	0.46	ppbv #	89
4) Chloromethane	3.150	50	67136	0.70	ppbv	91
5) Vinyl Chloride	3.269	62	6130m	0.07	ppbv	
9) Propene	3.031	41	56141	0.61	ppbv #	83
11) Trichlorofluoromethane	3.963	101	46070m	0.22	ppbv	
13) Ethanol	3.626	45	582874	40.38	ppbv	89
15) Acetone	3.864	43	877711	4.56	ppbv	96
19) Isopropyl Alcohol	3.999	45	178046m	1.53	ppbv	
20) Methylene Chloride	4.359	84	615696	10.02	ppbv	96
26) Hexane	5.703	57	532775	3.31	ppbv #	44
31) cis-1,2-Dichloroethene	5.568	61	144061	0.94	ppbv	92
34) 2-Butanone	5.262	43	1007426	4.16	ppbv	99
35) Carbon Tetrachloride	7.028	117	17252m	0.08	ppbv	
36) Benzene	6.909	78	56442m	0.19	ppbv	
41) Tetrahydrofuran	6.073	42	84255m	0.60	ppbv	
52) Tetrachloroethene	11.243	164	3608m	0.03	ppbv	
53) Toluene	9.825	91	1362271	4.04	ppbv	100
59) m/p-Xylene	12.995	91	40522m	0.11	ppbv	

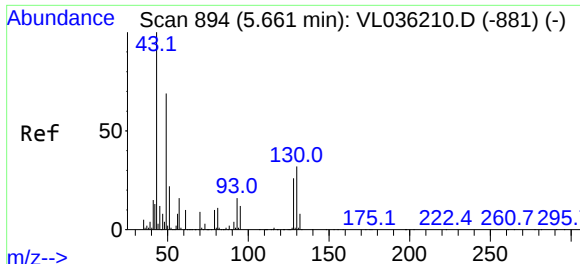
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integrations
APPROVED

MMDadoda
2/4/2021 5:15:27 PM

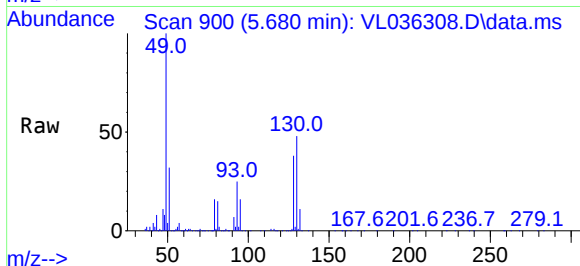
The chromatogram displays the Total Ion Chromatogram (TIC) for the file VL036308.D\data.ms. The y-axis represents Abundance, ranging from 0 to 5,600,000. The x-axis represents Time in minutes, ranging from 0.00 to 26.00. The baseline is relatively flat with minor noise. Several sharp, prominent peaks are visible, each labeled with a chemical compound name and its retention time. The most significant peaks are 1,4-Difluorobenzene, I at approximately 7.2 minutes and Chlorobenzene-d5, I at approximately 12.2 minutes, both reaching an abundance of over 4,000,000. Other major peaks include 1-Bromo-4-Fluorobenzene, S at approximately 14.5 minutes (abundance ~4,400,000) and Hexane, Bromochloromethane, I at approximately 5.8 minutes (abundance ~2,600,000). Numerous smaller peaks are also labeled, including Methylene Chloride, T; 2-Butanone, T; cis-1,2-Dichloroethene, T; Tetrahydrofuran, T; Carbon Tetrachloride, T; Toluene, T; Tetrachloroethene, T; m/p-Xylene, T; and several others at lower retention times.

Compound Name	Retention Time (min)	Approximate Abundance
1,4-Difluorobenzene, I	7.2	4,200,000
Chlorobenzene-d5, I	12.2	4,200,000
1-Bromo-4-Fluorobenzene, S	14.5	4,400,000
Hexane, Bromochloromethane, I	5.8	2,600,000
Methylene Chloride, T	4.2	1,600,000
Toluene, T	10.0	1,700,000
2-Butanone, T	5.2	750,000
cis-1,2-Dichloroethene, T	5.5	750,000
Tetrahydrofuran, T	5.8	400,000
Carbon Tetrachloride, T	6.5	400,000
Tetrachloroethene, T	11.5	300,000
m/p-Xylene, T	13.5	250,000



#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.680 min Scan# 900
Delta R.T. 0.019 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

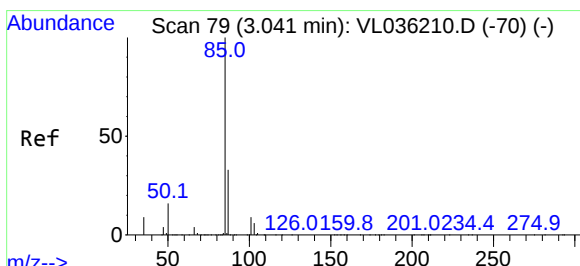
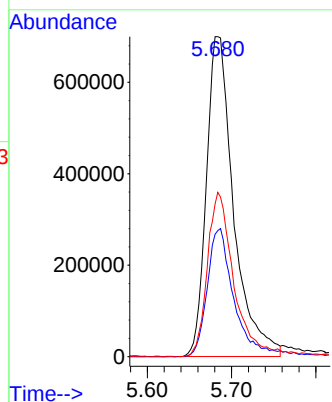
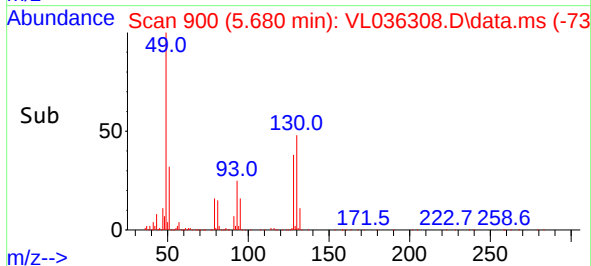
Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2



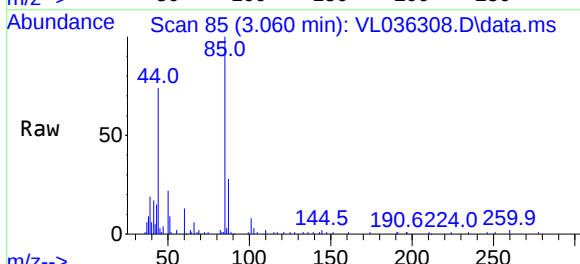
Tgt Ion: 49 Resp: 1571658
Ion Ratio Lower Upper
49 100
128 40.5 20.1 60.2
130 51.6 25.3 75.9

Manual Integrations
APPROVED

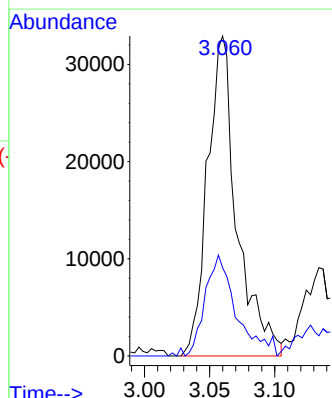
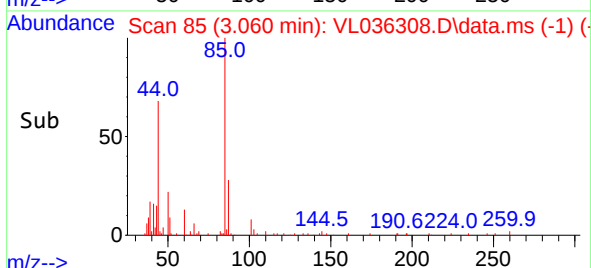
MMDadoda
2/4/2021 5:15:27 PM

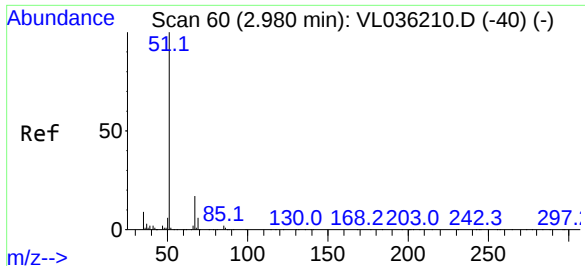


#2
Dichlorodifluoromethane
Concen: 0.24 ppbv m
RT: 3.060 min Scan# 85
Delta R.T. 0.019 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34



Tgt Ion: 85 Resp: 51590
Ion Ratio Lower Upper
85 100
87 27.6 26.4 39.6





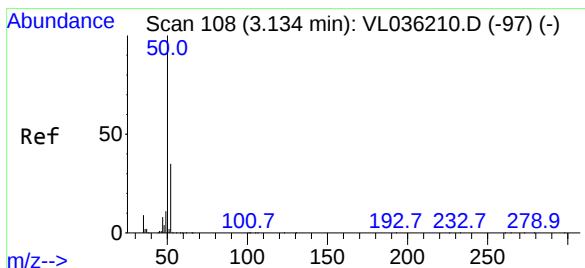
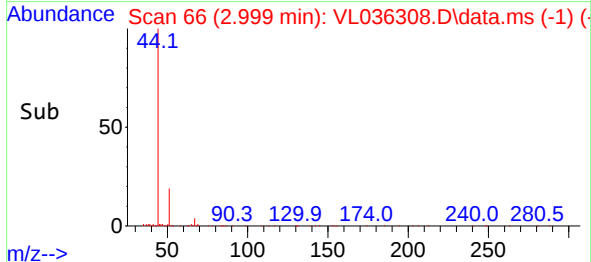
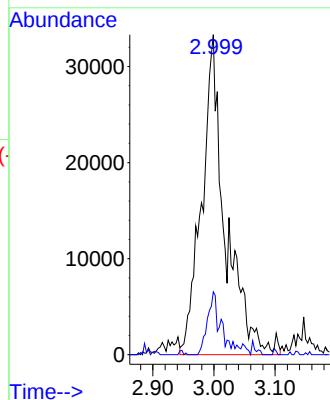
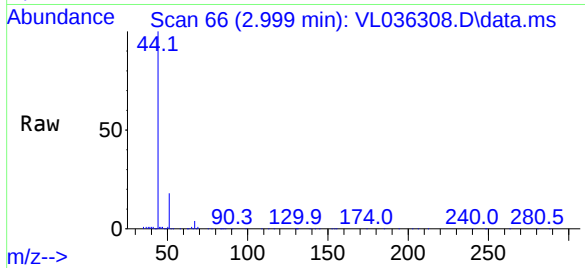
#3
Chlorodifluoromethane
Concen: 0.46 ppbv
RT: 2.999 min Scan# 66
Delta R.T. 0.019 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 51 Resp: 89472
Ion Ratio Lower Upper
51 100
67 12.6 14.0 21.0#

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

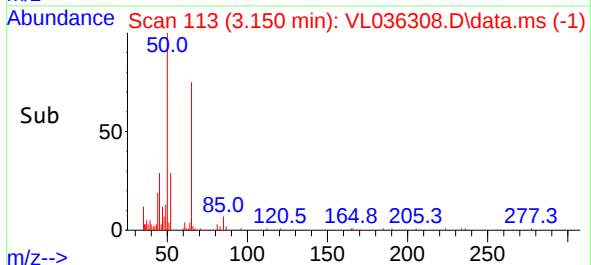
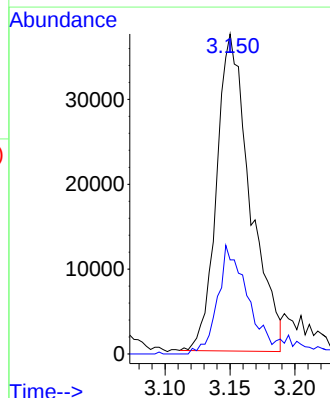
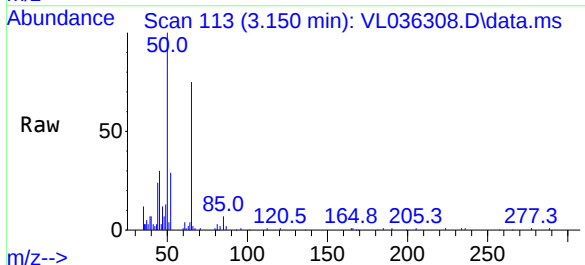
Manual Integrations
APPROVED

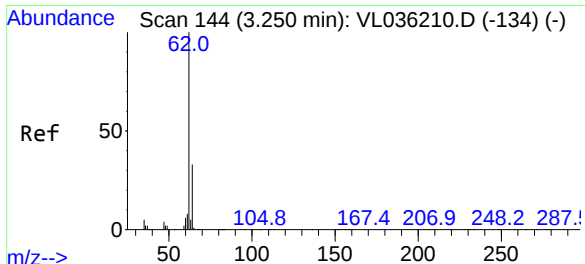
MMDadoda
2/4/2021 5:15:27 PM



#4
Chloromethane
Concen: 0.70 ppbv
RT: 3.150 min Scan# 113
Delta R.T. 0.016 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 50 Resp: 67136
Ion Ratio Lower Upper
50 100
52 29.7 27.8 41.8





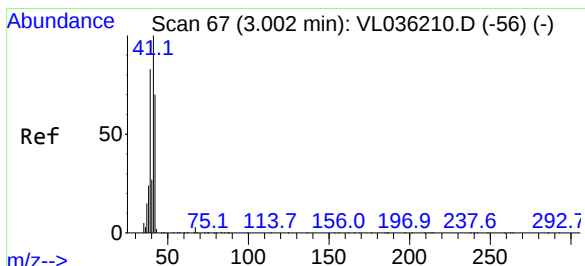
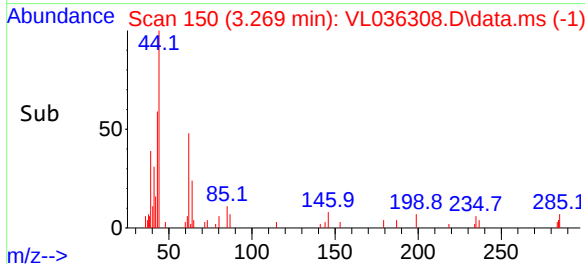
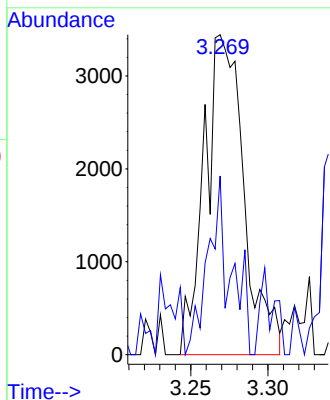
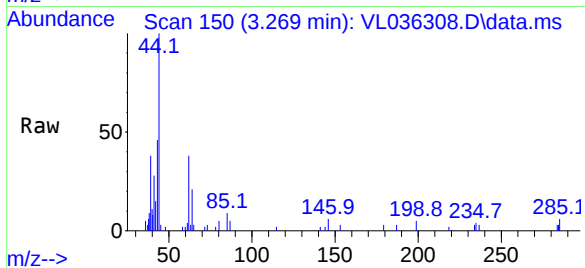
#5
 Vinyl Chloride
 Concen: 0.07 ppbv m
 RT: 3.269 min Scan# 150
 Delta R.T. 0.019 min
 Lab File: VL036308.D
 Acq: 4 Feb 2021 00:34

Tgt Ion: 62 Resp: 6130
 Ion Ratio Lower Upper
 62 100
 64 55.9 26.2 39.2#

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-INTERMEDIATE-2

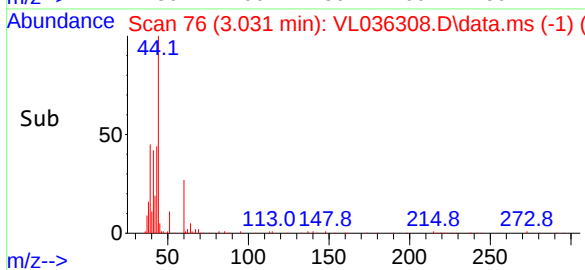
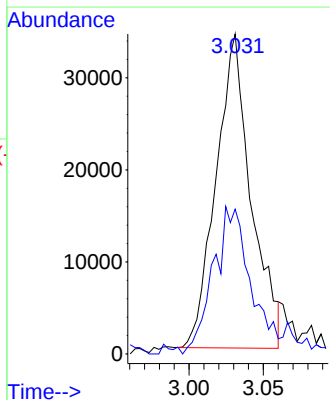
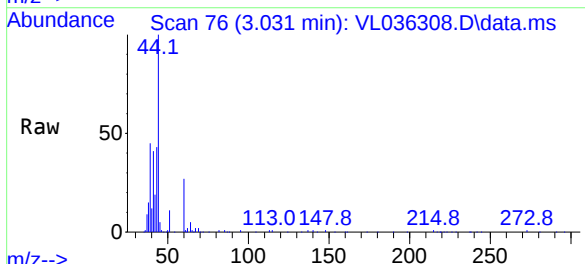
Manual Integrations
 APPROVED

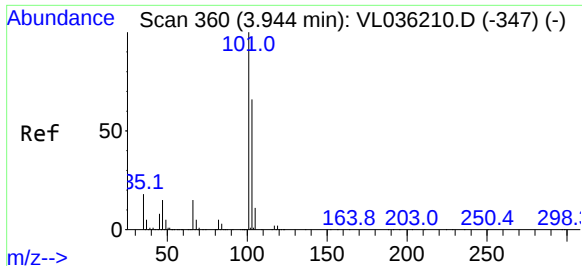
MMDadoda
 2/4/2021 5:15:27 PM



#9
 Propene
 Concen: 0.61 ppbv
 RT: 3.031 min Scan# 76
 Delta R.T. 0.029 min
 Lab File: VL036308.D
 Acq: 4 Feb 2021 00:34

Tgt Ion: 41 Resp: 56141
 Ion Ratio Lower Upper
 41 100
 42 57.0 57.1 85.7#





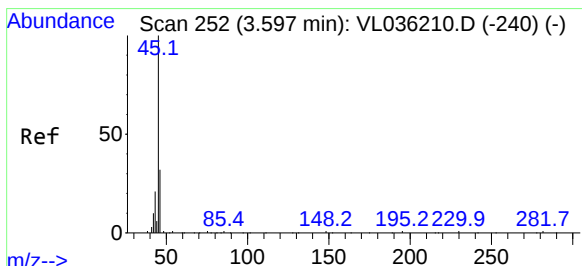
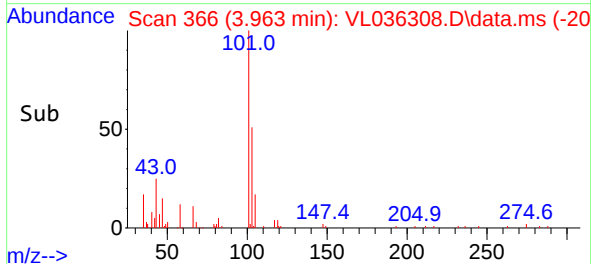
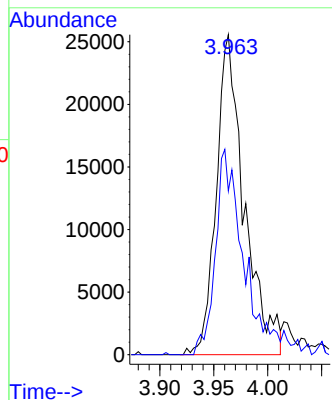
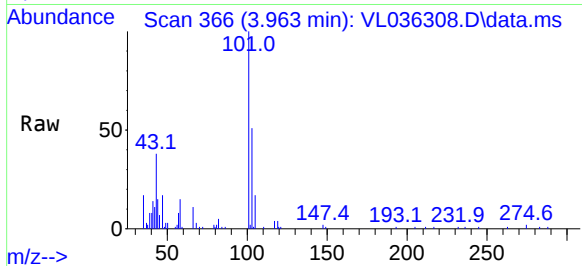
#11
Trichlorofluoromethane
Concen: 0.22 ppbv m
RT: 3.963 min Scan# 366
Delta R.T. 0.019 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

Tgt Ion:101 Resp: 46070
Ion Ratio Lower Upper
101 100
103 51.1 52.6 78.8#

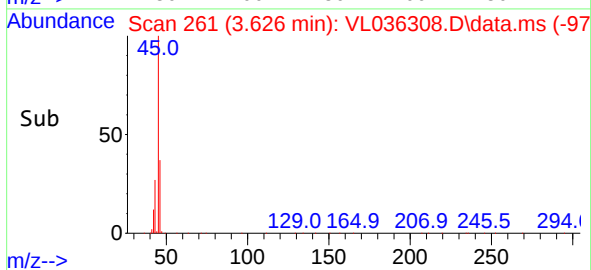
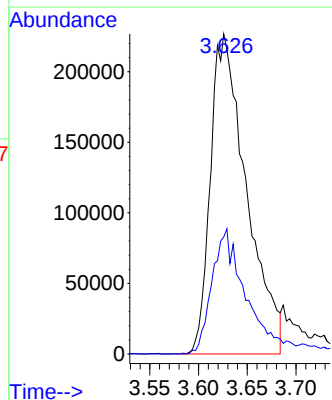
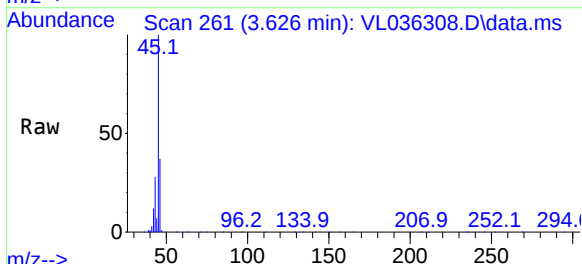
Manual Integrations
APPROVED

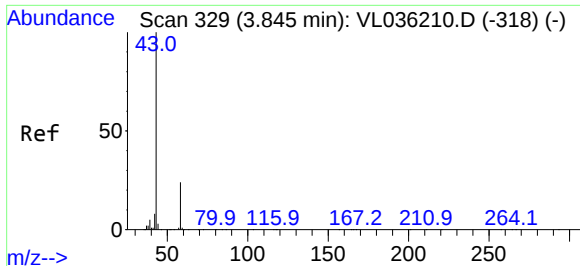
MMDadoda
2/4/2021 5:15:27 PM



#13
Ethanol
Concen: 40.38 ppbv
RT: 3.626 min Scan# 261
Delta R.T. 0.029 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 45 Resp: 582874
Ion Ratio Lower Upper
45 100
46 40.5 19.2 77.0





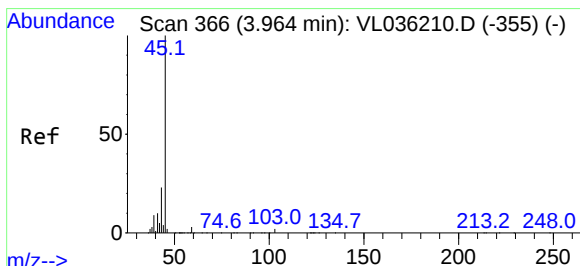
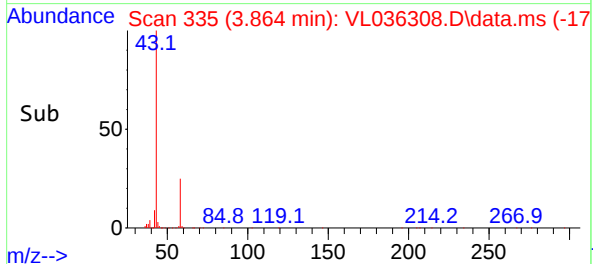
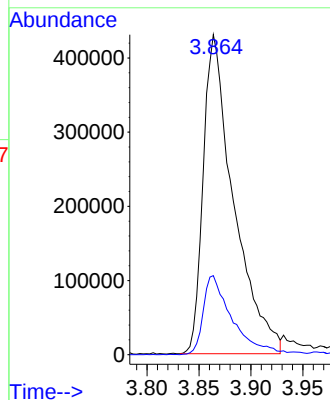
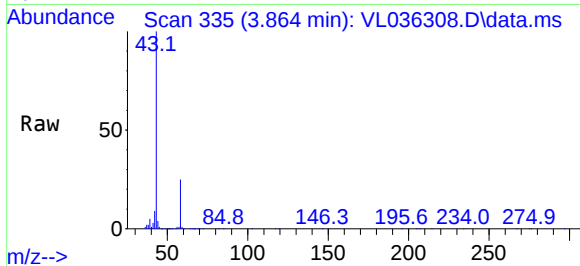
#15
Acetone
Concen: 4.56 ppbv
RT: 3.864 min Scan# 335
Delta R.T. 0.019 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

Tgt Ion: 43 Resp: 877711
Ion Ratio Lower Upper
43 100
58 23.9 20.9 31.3

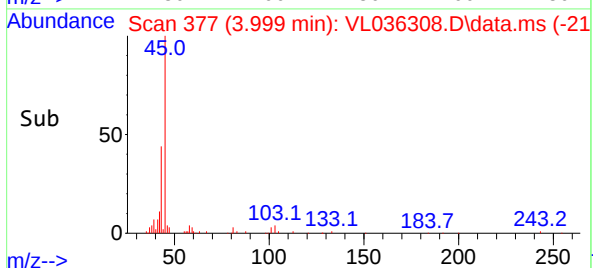
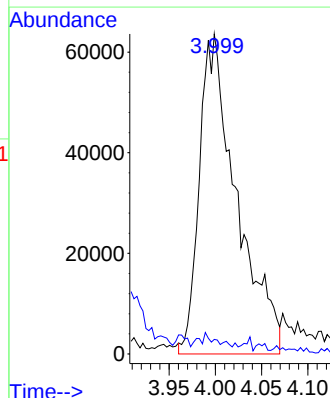
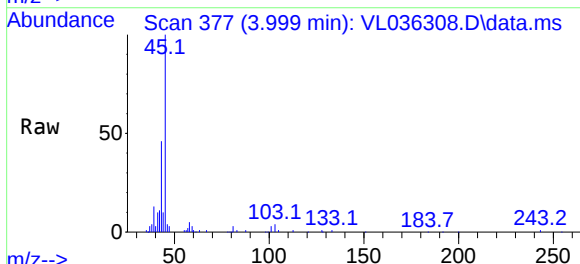
Manual Integrations
APPROVED

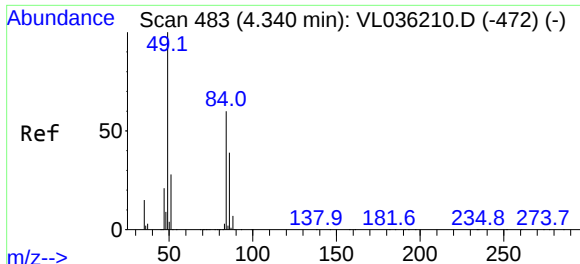
MMDadoda
2/4/2021 5:15:27 PM



#19
Isopropyl Alcohol
Concen: 1.53 ppbv m
RT: 3.999 min Scan# 377
Delta R.T. 0.035 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

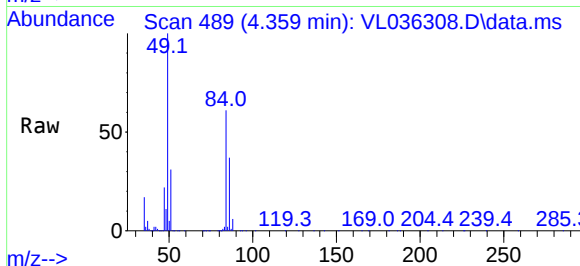
Tgt Ion: 45 Resp: 178046
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#





#20
Methylene Chloride
Concen: 10.02 ppbv
RT: 4.359 min Scan# 489
Delta R.T. 0.019 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

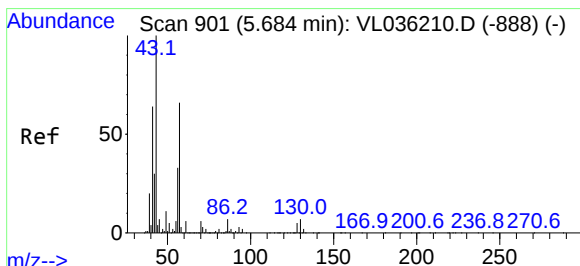
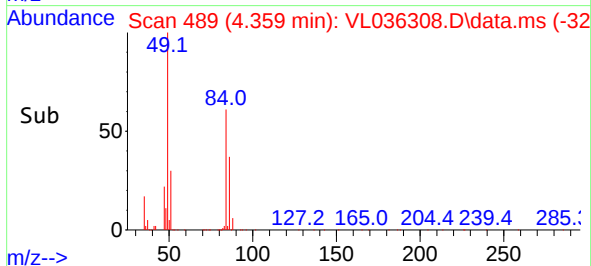
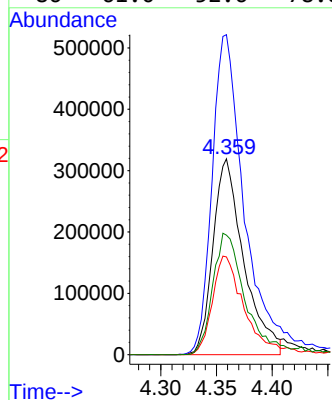
Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2



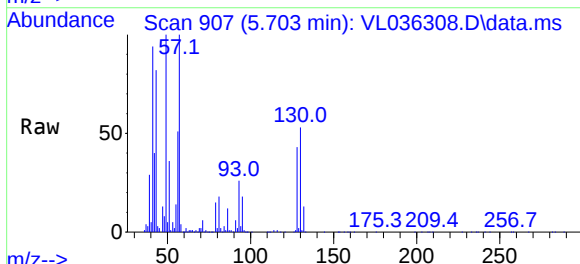
Tgt Ion:	84	Resp:	615696
Ion	Ratio	Lower	Upper
84	100		
49	163.2	134.1	201.1
51	49.8	37.4	56.0
86	61.0	52.6	78.8

Manual Integrations
APPROVED

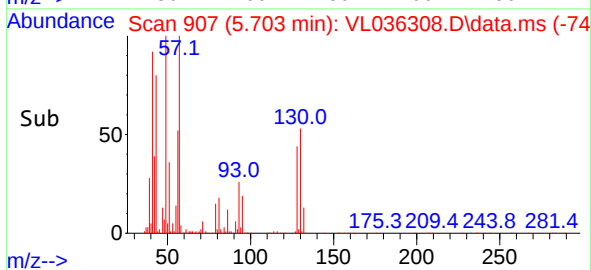
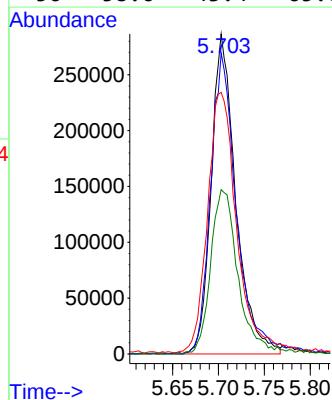
MMDadoda
2/4/2021 5:15:27 PM

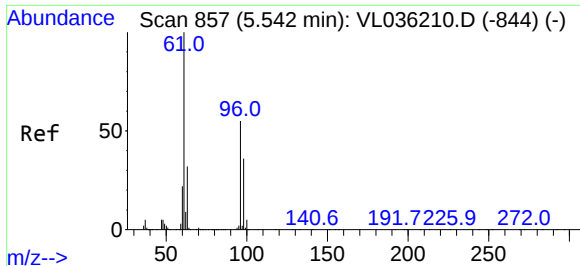


#26
Hexane
Concen: 3.31 ppbv
RT: 5.703 min Scan# 907
Delta R.T. 0.019 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

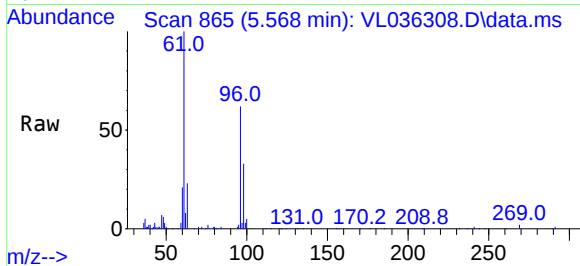


Tgt Ion:	57	Resp:	532775
Ion	Ratio	Lower	Upper
57	100		
41	101.9	83.0	124.6
43	98.1	202.4	303.6#
56	58.6	43.4	65.0



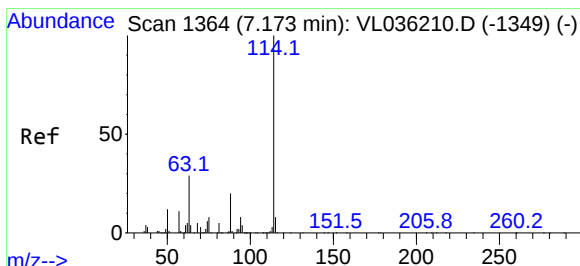
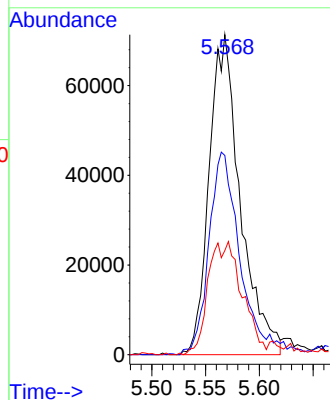
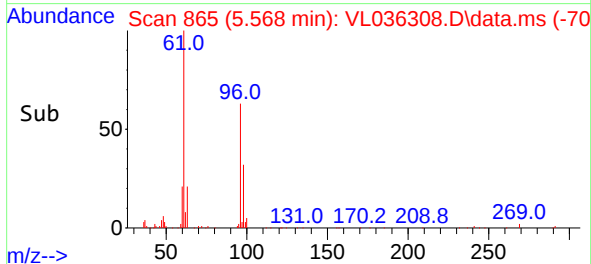


#31
cis-1,2-Dichloroethene
Concen: 0.94 ppbv
RT: 5.568 min Scan# 865
Delta R.T. 0.026 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

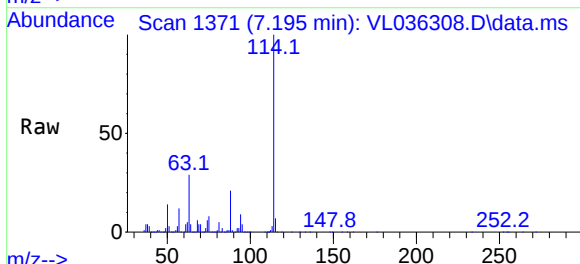


Tgt Ion: 61 Resp: 144061

Ion	Ratio	Lower	Upper
61	100		
96	62.2	44.1	66.1
98	32.0	28.6	42.8

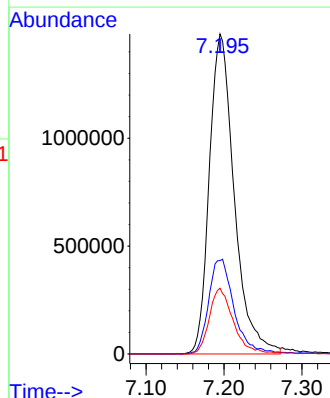
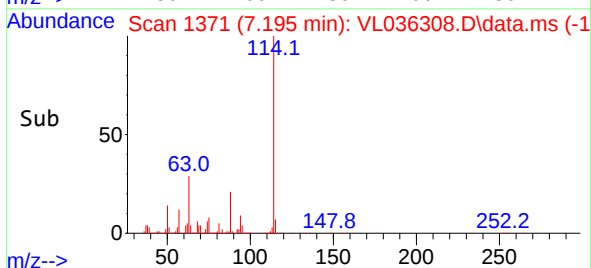


#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.195 min Scan# 1371
Delta R.T. 0.022 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34



Tgt Ion: 114 Resp: 3291725

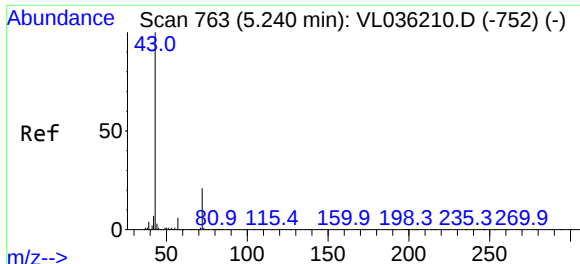
Ion	Ratio	Lower	Upper
114	100		
63	30.7	24.7	37.1
88	20.1	16.6	24.8



Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

Manual Integrations
APPROVED

MMDadoda
2/4/2021 5:15:27 PM



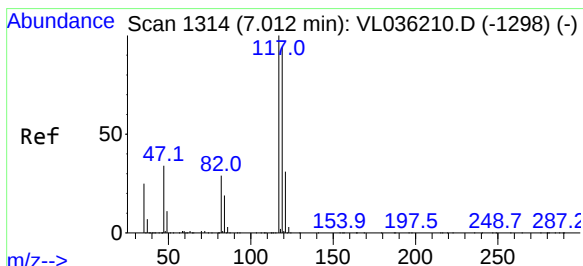
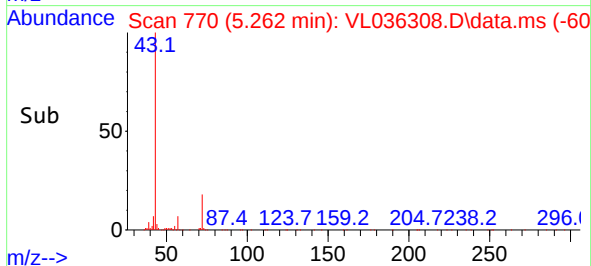
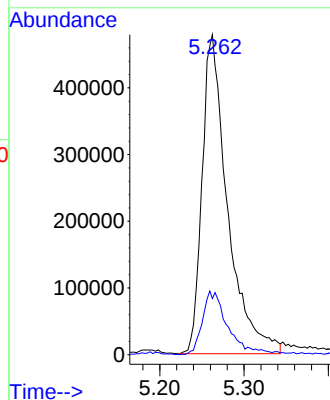
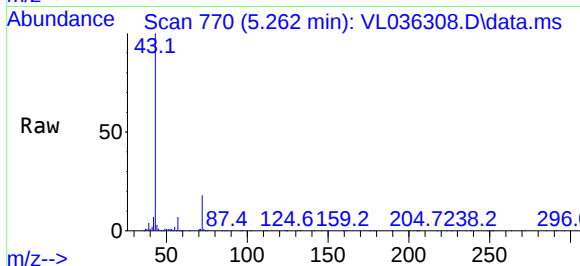
#34
2-Butanone
Concen: 4.16 ppbv
RT: 5.262 min Scan# 770
Delta R.T. 0.022 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 43 Resp: 1007426
Ion Ratio Lower Upper
43 100
72 20.4 16.1 24.1

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

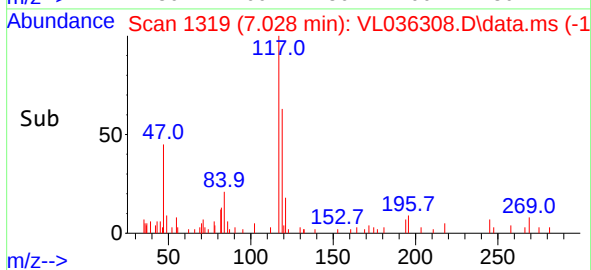
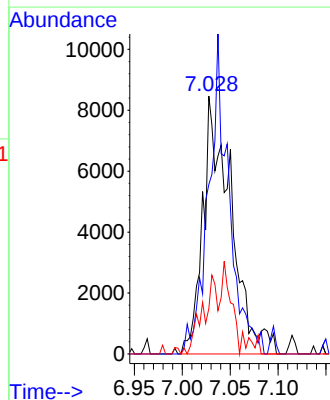
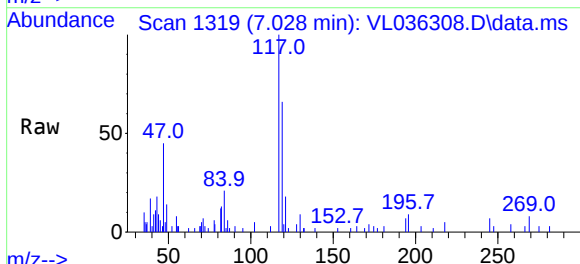
Manual Integrations
APPROVED

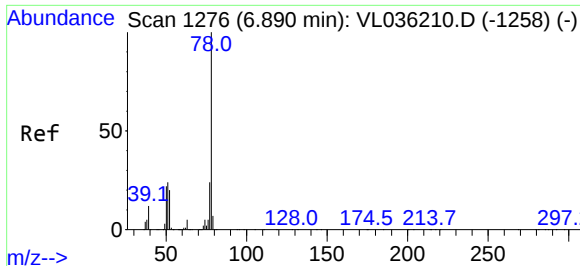
MMDadoda
2/4/2021 5:15:27 PM



#35
Carbon Tetrachloride
Concen: 0.08 ppbv m
RT: 7.028 min Scan# 1319
Delta R.T. 0.016 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 117 Resp: 17252
Ion Ratio Lower Upper
117 100
119 65.7 74.9 112.3#
121 17.6 25.0 37.6#





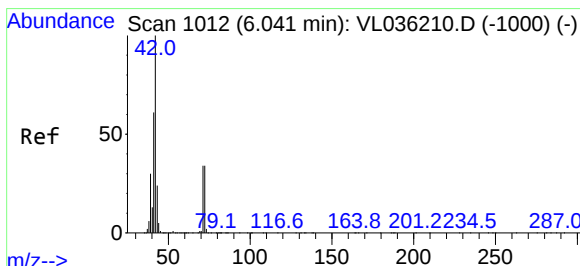
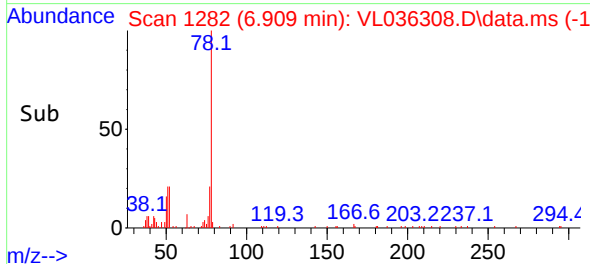
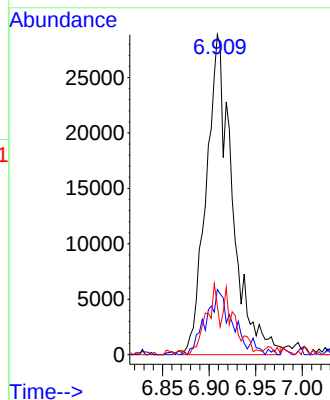
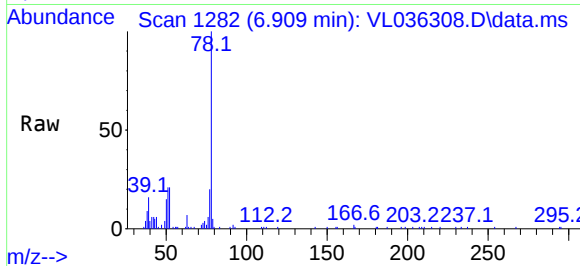
#36
Benzene
Concen: 0.19 ppbv m
RT: 6.909 min Scan# 1282
Delta R.T. 0.019 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 78 Resp: 56442
Ion Ratio Lower Upper
78 100
77 20.3 19.4 29.0
50 15.3 17.4 26.2#

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

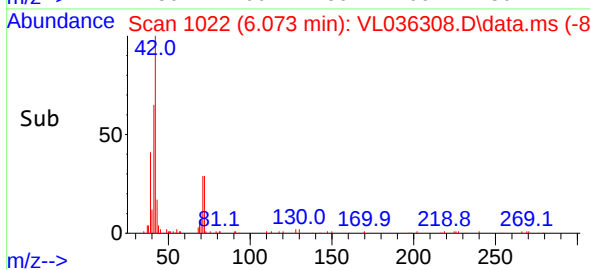
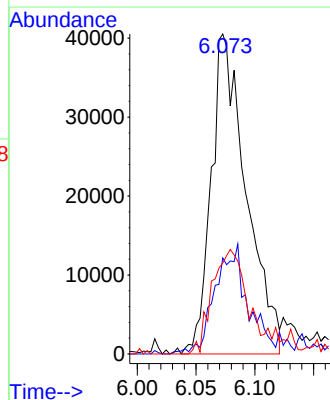
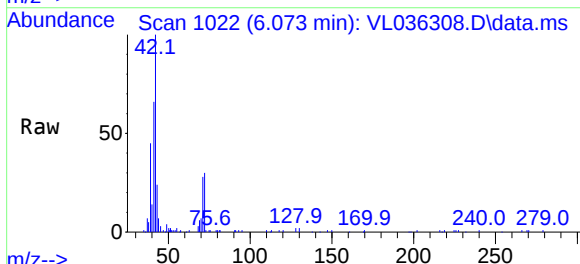
Manual Integrations
APPROVED

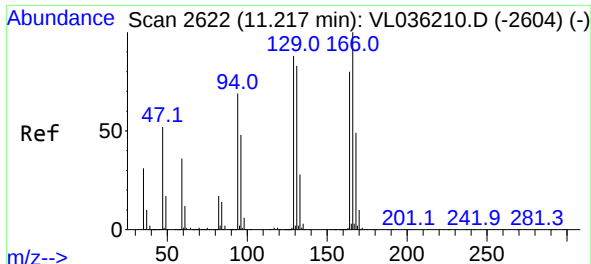
MMDadoda
2/4/2021 5:15:27 PM



#41
Tetrahydrofuran
Concen: 0.60 ppbv m
RT: 6.073 min Scan# 1022
Delta R.T. 0.032 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion: 42 Resp: 84255
Ion Ratio Lower Upper
42 100
72 37.5 29.5 44.3
71 38.3 29.1 43.7





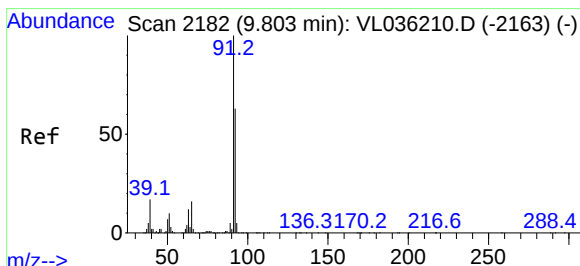
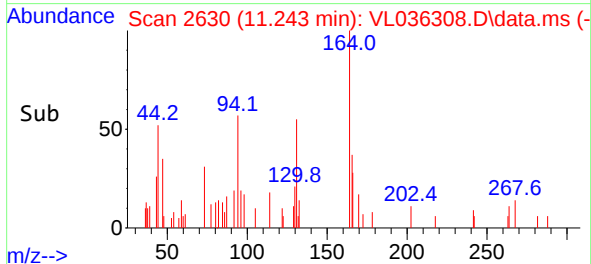
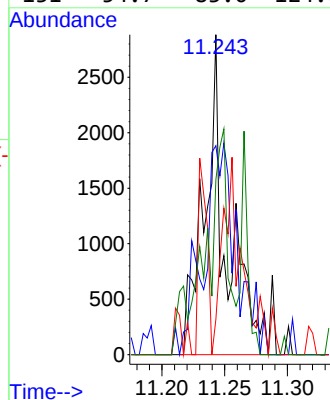
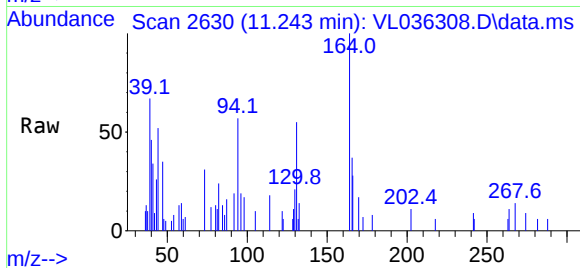
#52
Tetrachloroethene
Concen: 0.03 ppbv m
RT: 11.243 min Scan# 2630
Delta R.T. 0.025 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

Tgt Ion:	164	Resp:	3608
Ion	Ratio	Lower	Upper
164	100		
166	37.1	99.9	149.9#
129	11.1	88.2	132.4#
131	54.7	83.0	124.6#

Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2

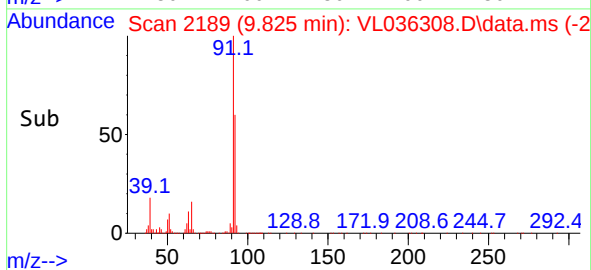
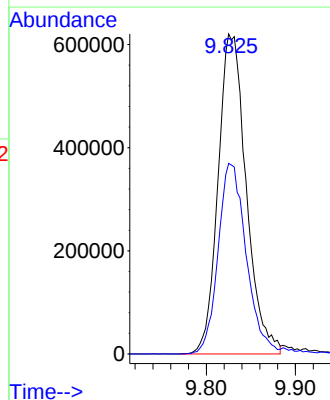
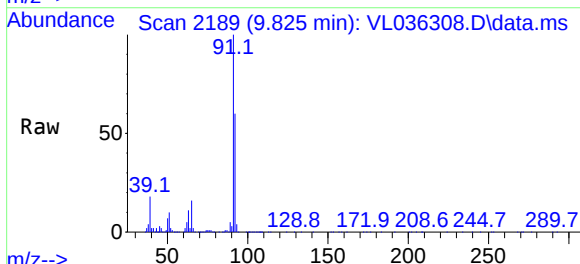
Manual Integrations
APPROVED

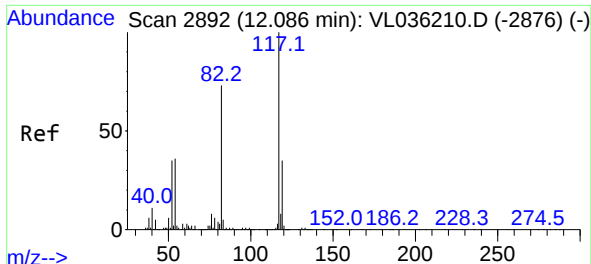
MMDadoda
2/4/2021 5:15:27 PM



#53
Toluene
Concen: 4.04 ppbv
RT: 9.825 min Scan# 2189
Delta R.T. 0.022 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

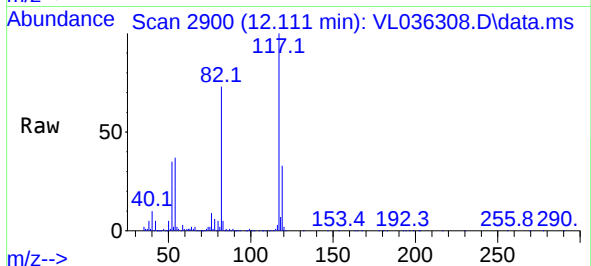
Tgt Ion:	91	Resp:	1362271
Ion	Ratio	Lower	Upper
91	100		
92	60.9	48.5	72.7





#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.111 min Scan# 2900
Delta R.T. 0.026 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34

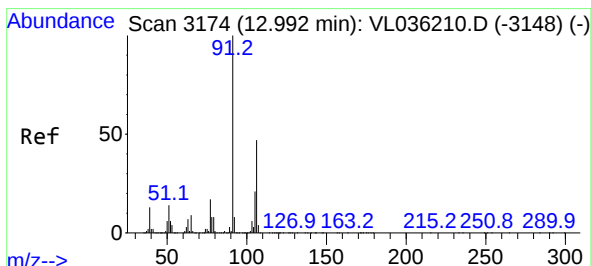
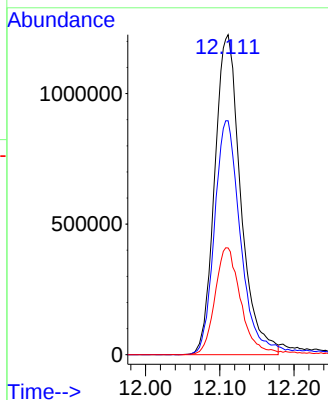
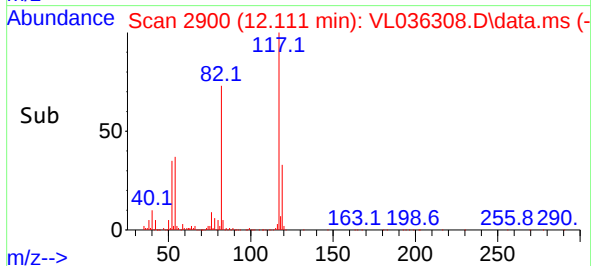
Instrument :
MSVOA_L
ClientSampleId :
OFFSITE-DDC-INTERMEDIATE-2



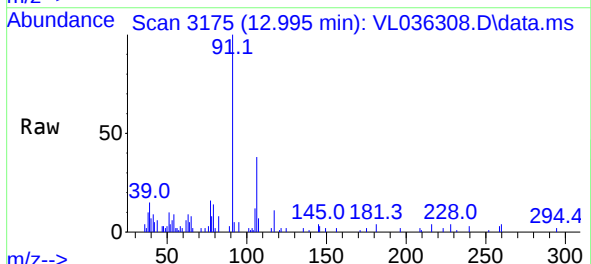
Tgt Ion: 117 Resp: 2986486
Ion Ratio Lower Upper
117 100
82 76.0 59.7 89.5
119 34.3 28.6 43.0

Manual Integrations
APPROVED

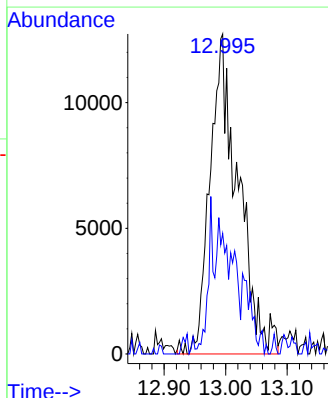
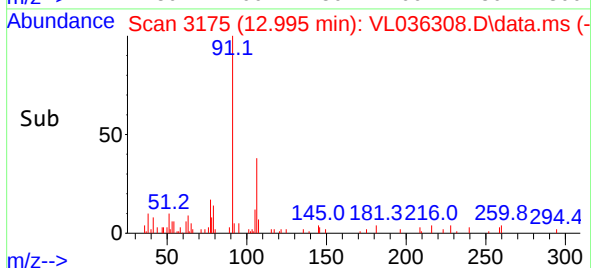
MMDadoda
2/4/2021 5:15:27 PM

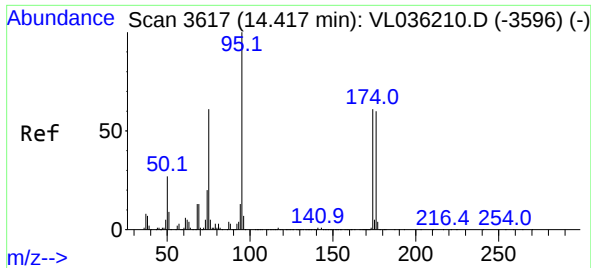


#59
m/p-Xylene
Concen: 0.11 ppbv m
RT: 12.995 min Scan# 3175
Delta R.T. 0.003 min
Lab File: VL036308.D
Acq: 4 Feb 2021 00:34



Tgt Ion: 91 Resp: 40522
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.97 ppbv
 RT: 14.442 min Scan# 3625
 Delta R.T. 0.026 min
 Lab File: VL036308.D
 Acq: 4 Feb 2021 00:34

Tgt Ion: 95 Resp: 2463927

Ion	Ratio	Lower	Upper
95	100		
174	64.1	49.4	74.0
175	4.6	3.8	5.8

Instrument :
 MSVOA_L
 ClientSampleId :
 OFFSITE-DDC-INTERMEDIATE-2

Manual Integrations
 APPROVED

MMDadoda
 2/4/2021 5:15:27 PM

