

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030920\
 Data File : VL034856.D
 Acq On : 10 Mar 2020 2:28
 Operator : SY/AP
 Sample : L1161-14 0.5 LOQ
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Manual Integrations
 APPROVED

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 3/11/2020 3:26:16 PM

Quant Time: Mar 11 14:18:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	876361	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	1975131	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1954578	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1588561	10.42	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.01	85	84179	0.701 ppbv	94
3) Chlorodifluoromethane	2.95	51	52176	0.533 ppbv	98
4) Chloromethane	3.10	50	31667	0.572 ppbv	91
5) Vinyl Chloride	3.22	62	27763	0.522 ppbv #	75
6) Bromomethane	3.44	94	16294	0.526 ppbv	85
7) Chloroethane	3.52	64	10183m	0.530 ppbv	
8) Dichlorotetrafluoroethane	3.15	85	70240	0.564 ppbv	97
9) Propene	2.97	41	23611	0.505 ppbv	98
10) Heptane	8.12	43	55286m	0.481 ppbv	
11) Trichlorofluoromethane	3.92	101	71866	0.563 ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.46	101	50079	0.560 ppbv	96
13) Ethanol	3.59	45	8402m	0.591 ppbv	
14) Bromoethene	3.71	108	20030	0.519 ppbv	95
15) Acetone	3.83	43	64081	0.564 ppbv	91
16) 1,3-Butadiene	3.29	39	24047	0.468 ppbv	97
17) tert-Butyl alcohol	4.28	59	66530	0.608 ppbv	96
18) 1,1-Dichloroethene	4.27	96	21491m	0.543 ppbv	
19) Isopropyl Alcohol	3.95	45	41727	0.582 ppbv #	43
20) Methylene Chloride	4.32	84	23295m	0.649 ppbv	
21) Allyl Chloride	4.39	41	36645	0.502 ppbv	96
22) trans-1,2-Dichloroethene	4.86	96	21299	0.531 ppbv	95
23) Vinyl Acetate	5.06	43	87383	0.521 ppbv #	96
24) 1,1-Dichloroethane	4.99	63	61771	0.549 ppbv	98
25) Ethyl Acetate	5.67	43	103483	0.511 ppbv	98
26) Hexane	5.67	57	43877	0.504 ppbv	91
27) Carbon Disulfide	4.53	76	42674	0.432 ppbv #	73
28) Methyl tert-Butyl Ether	5.02	73	69375	0.479 ppbv	99
29) Chloroform	5.74	83	70008	0.527 ppbv	85
30) Cyclohexane	7.13	84	32321	0.445 ppbv	91
31) cis-1,2-Dichloroethene	5.53	61	44249	0.497 ppbv	95
32) 1,1,1-Trichloroethane	6.50	97	71665m	0.553 ppbv	
34) 2-Butanone	5.24	43	66176	0.504 ppbv	99
35) Carbon Tetrachloride	7.01	117	66280	0.540 ppbv	86
36) Benzene	6.89	78	87167	0.495 ppbv	98
37) 1,2-Dichloroethane	6.30	62	54748	0.552 ppbv	100
38) Trichloroethene	7.84	130	34969m	0.523 ppbv	
39) 1,2-Dichloropropane	7.62	63	34489	0.494 ppbv #	88
40) 1,4-Dioxane	7.88	88	14157m	0.537 ppbv	
41) Tetrahydrofuran	6.06	42	31813m	0.448 ppbv	
42) Bromodichloromethane	7.79	83	66547	0.492 ppbv #	91
43) Methyl Methacrylate	8.03	69	36043	0.486 ppbv	96

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 LOQ-AIR-01-QT1-2020

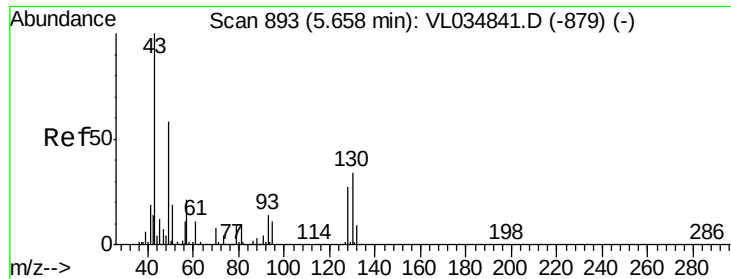
Manual Integrations
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Quant Time: Mar 11 14:18:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.87	57	148832m	0.500	ppbv	
45) t-1,3-Dichloropropene	9.29	75	34006m	0.390	ppbv	
46) cis-1,3-Dichloropropene	8.71	75	41915m	0.405	ppbv	
47) 1,1,2-Trichloroethane	9.49	97	40448m	0.565	ppbv	
48) Dibromochloromethane	10.32	129	47244m	0.408	ppbv	
49) Bromoform	13.07	173	41304	0.400	ppbv	96
50) 4-Methyl-2-Pentanone	8.76	43	92852	0.491	ppbv	100
51) 2-Hexanone	10.17	43	68529m	0.446	ppbv	
52) Tetrachloroethene	11.24	164	33649m	0.483	ppbv	
53) Toluene	9.82	91	88011	0.433	ppbv	98
54) 1,2-Dibromoethane	10.63	107	53539	0.497	ppbv	94
56) 1,1,1,2-Tetrachloroethane	12.15	131	44648m	0.509	ppbv	
57) Chlorobenzene	12.17	112	83552m	0.546	ppbv	
58) Ethyl Benzene	12.74	91	131595m	0.497	ppbv	
59) m/p-Xylene	13.02	91	224111m	1.011	ppbv	
60) o-Xylene	13.72	91	118319	0.546	ppbv	96
61) Styrene	13.55	104	64752m	0.426	ppbv	
62) Isopropylbenzene	14.70	105	173272m	0.529	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.70	83	80907	0.550	ppbv	97
64) n-propylbenzene	15.59	120	38579m	0.453	ppbv	
65) tert-Butylbenzene	16.78	119	136094m	0.476	ppbv	
66) Benzyl Chloride	17.03	91	44022m	0.369	ppbv	
67) sec-Butylbenzene	17.33	105	193437	0.487	ppbv	94
69) p-Isopropyltoluene	17.68	119	155906m	0.469	ppbv	
70) n-Butylbenzene	18.59	91	159966	0.471	ppbv	98
71) 2-Chlorotoluene	15.48	91	124168	0.501	ppbv	100
72) 4-Ethyltoluene	15.86	105	122487	0.479	ppbv	97
73) 1,3,5-Trimethylbenzene	16.02	105	112780	0.471	ppbv	88
74) 1,2,4-Trimethylbenzene	16.79	105	125729	0.510	ppbv #	91
75) 1,3-Dichlorobenzene	17.03	146	81669	0.549	ppbv	99
76) 1,4-Dichlorobenzene	17.18	146	76863m	0.518	ppbv	
77) 1,2-Dichlorobenzene	17.86	146	72069	0.500	ppbv	96
78) Hexachloro-1,3-Butadiene	23.42	225	54766m	0.455	ppbv	
79) Naphthalene	22.26	128	57203m	0.297	ppbv	
81) 1,2,4-Trichlorobenzene	21.99	180	45340m	0.371	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

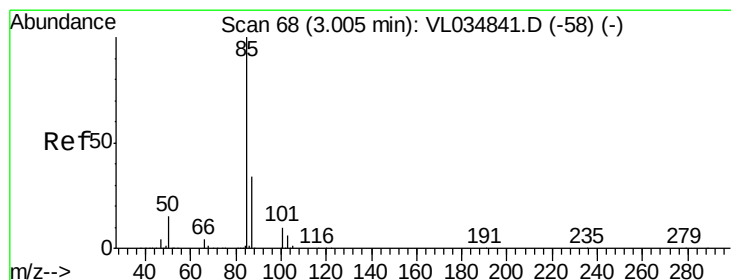
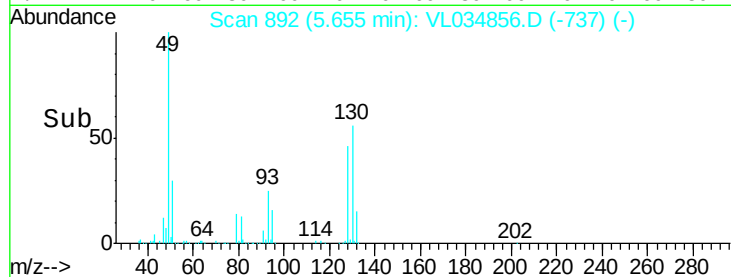
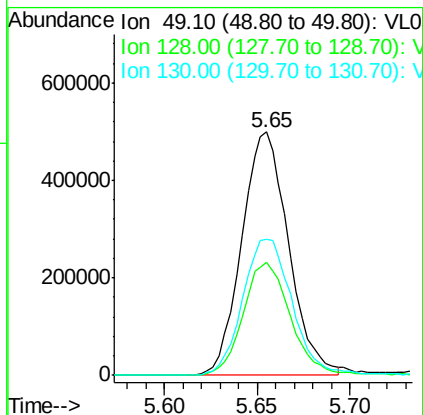
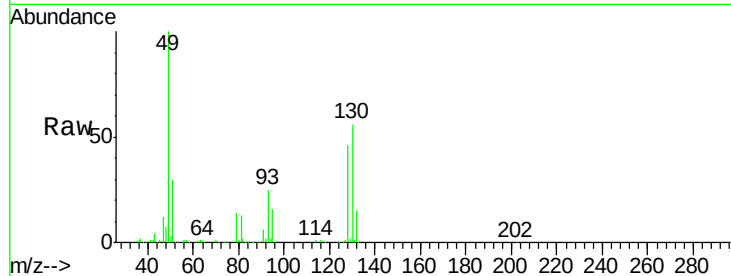
ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.4	70.3
130	59.9	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 0.701 ppbv

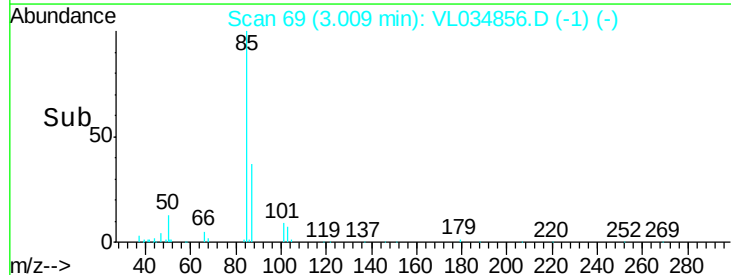
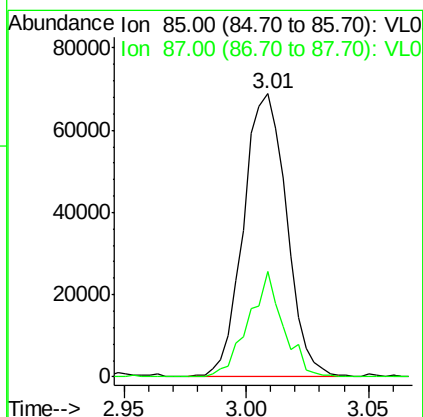
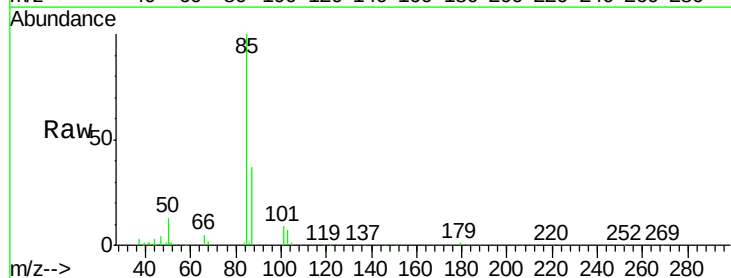
RT: 3.01 min Scan# 69

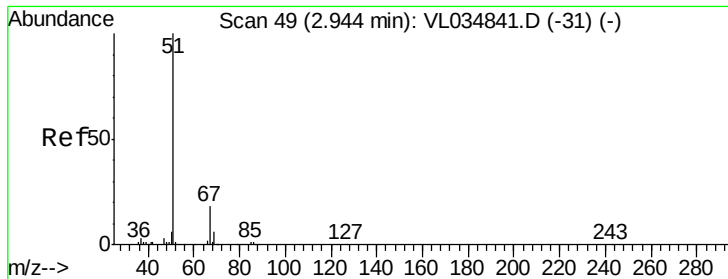
Delta R.T. 0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
85	100		
87	37.1	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.533 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion: 51 Resp: 52176

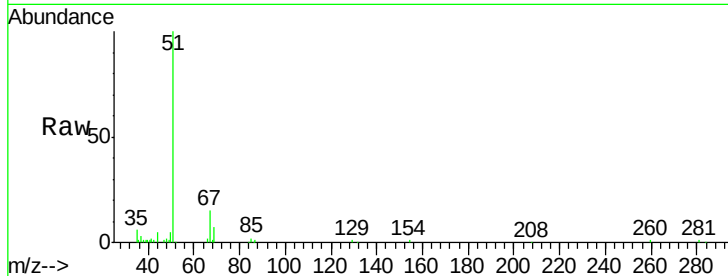
Ion Ratio Lower Upper

51 100

67 18.6 14.3 21.5

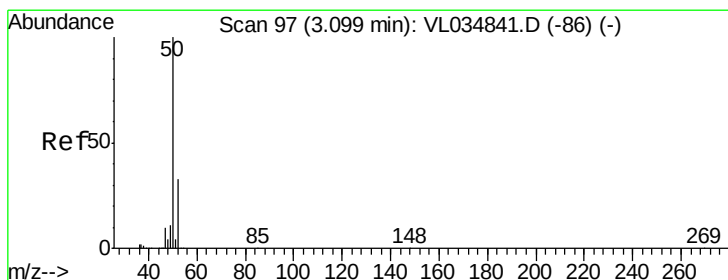
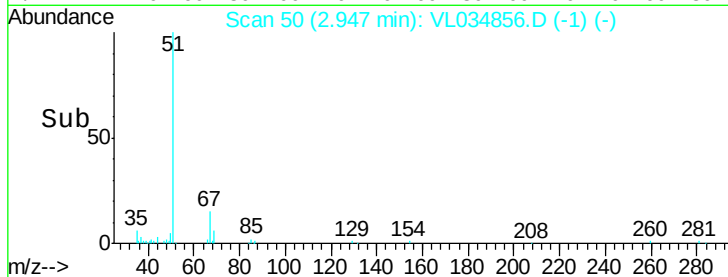
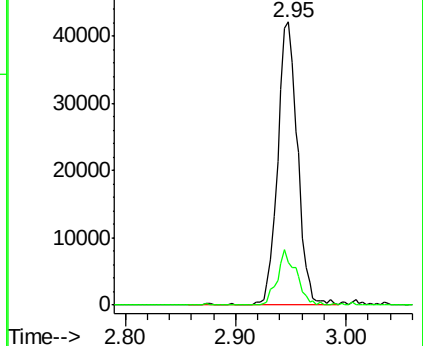
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.572 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034856.D

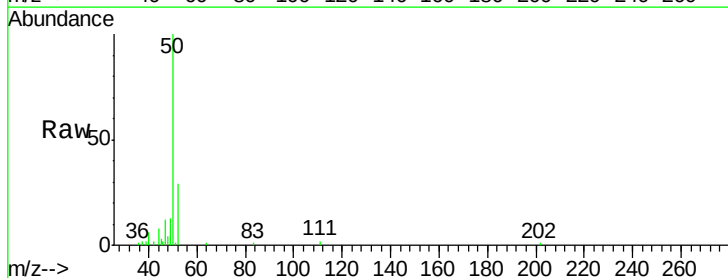
Acq: 10 Mar 2020 2:28

Tgt Ion: 50 Resp: 31667

Ion Ratio Lower Upper

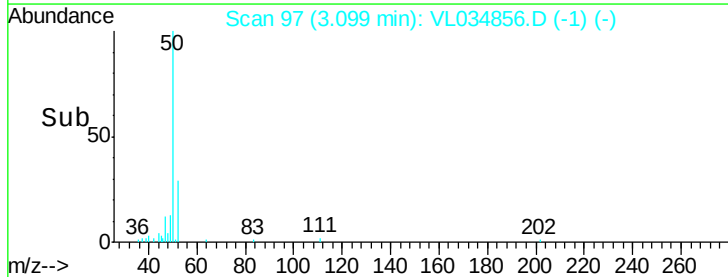
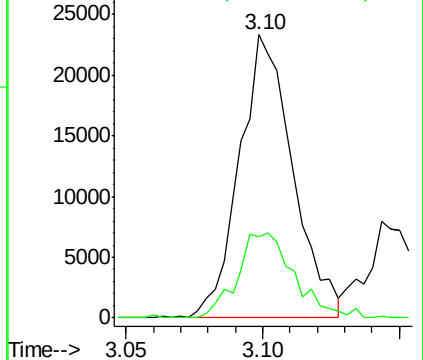
50 100

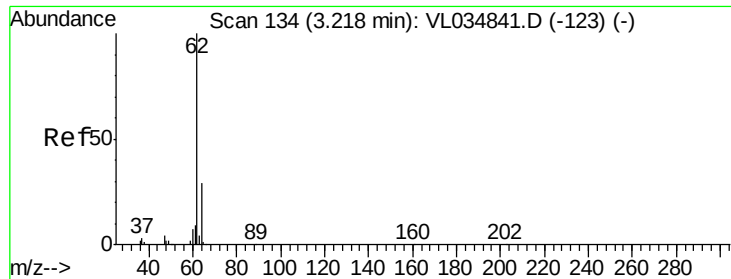
52 28.5 26.8 40.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.522 ppbv

RT: 3.22 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

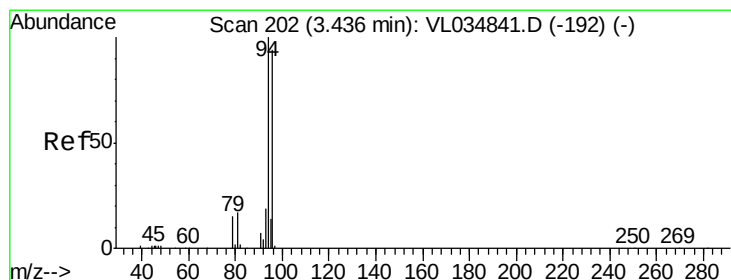
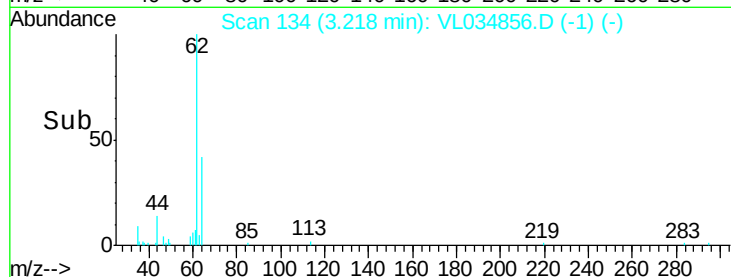
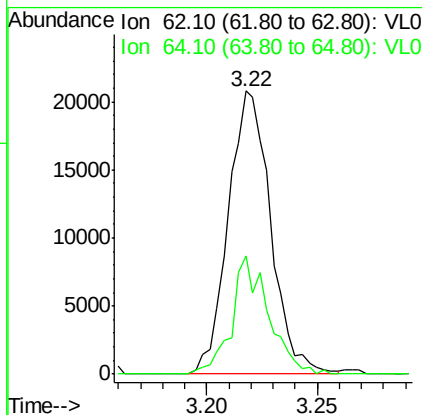
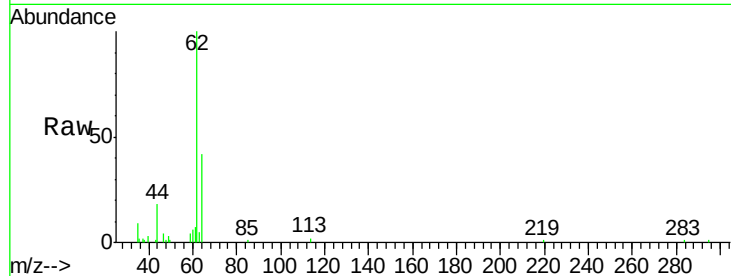
ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion	62	Resp	27763
Ion	Ratio	Lower	Upper
62	100		
64	41.7	23.0	34.4#

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#6

Bromomethane

Concen: 0.526 ppbv

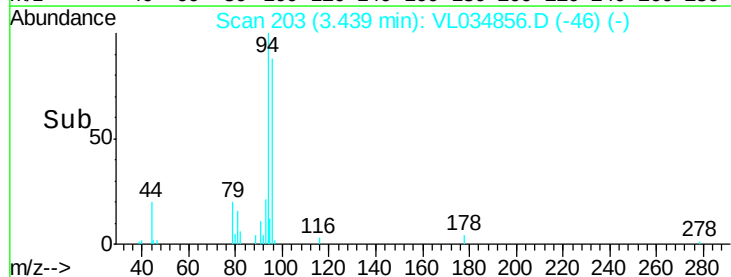
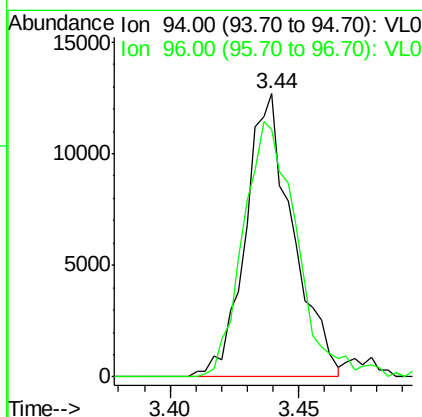
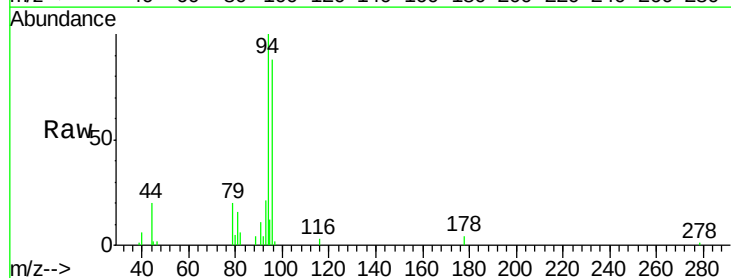
RT: 3.44 min Scan# 203

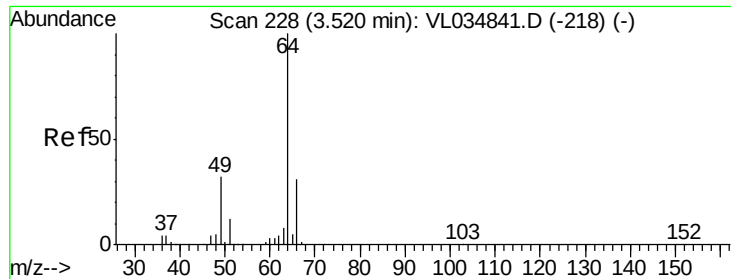
Delta R.T. 0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Tgt Ion	94	Resp	16294
Ion	Ratio	Lower	Upper
94	100		
96	79.7	75.5	113.3





#7

Chloroethane

Concen: 0.530 ppbv m

RT: 3.52 min Scan# 229

Delta R.T. 0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion: 64 Resp: 10183

Ion Ratio Lower Upper

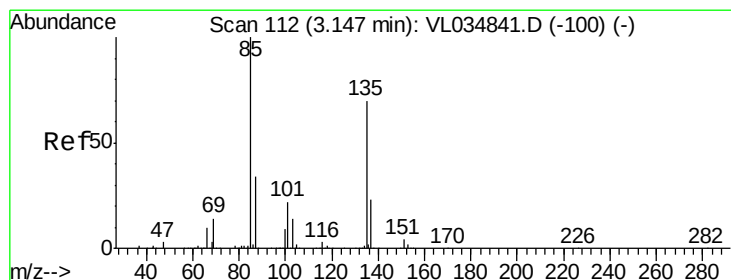
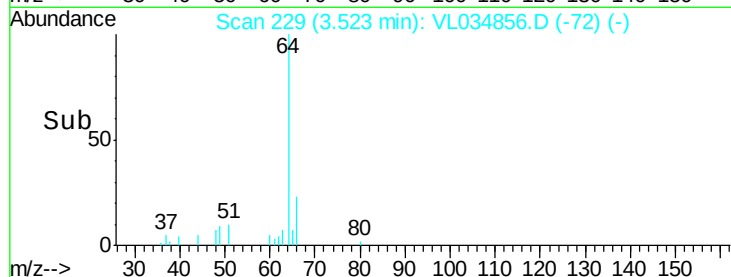
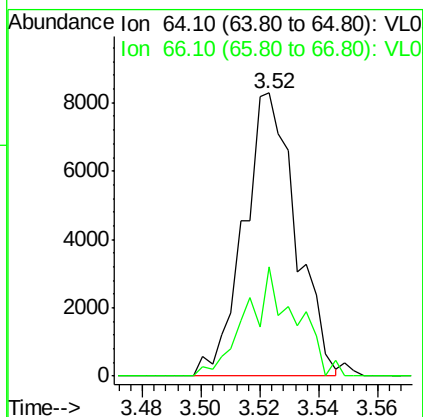
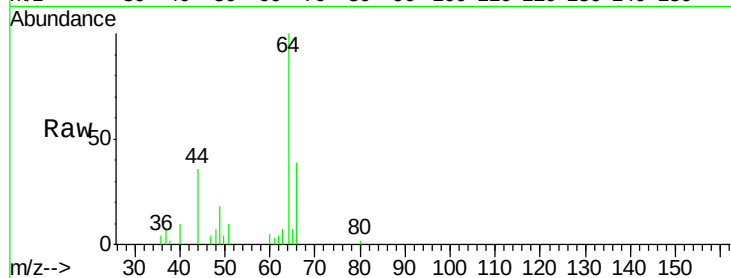
64 100

66 38.7 24.8 37.2#

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#8

Dichlorotetrafluoroethane

Concen: 0.564 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL034856.D

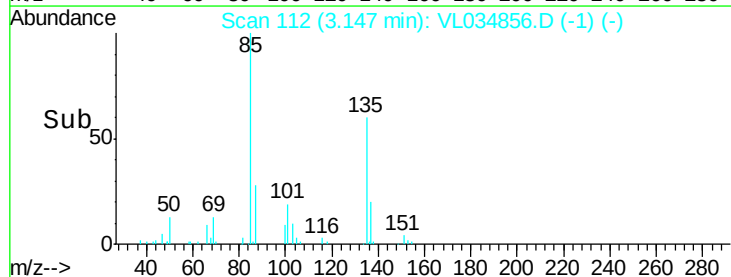
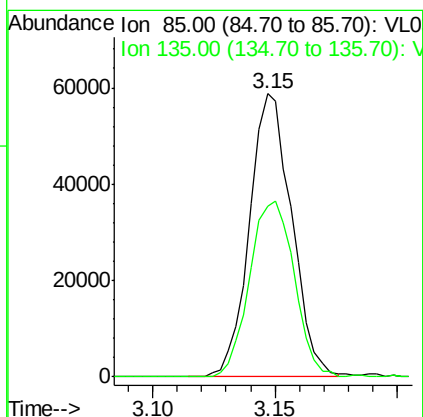
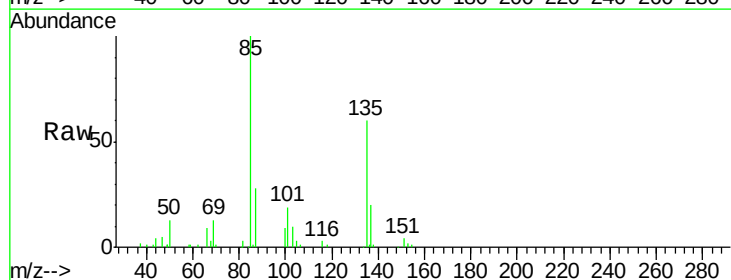
Acq: 10 Mar 2020 2:28

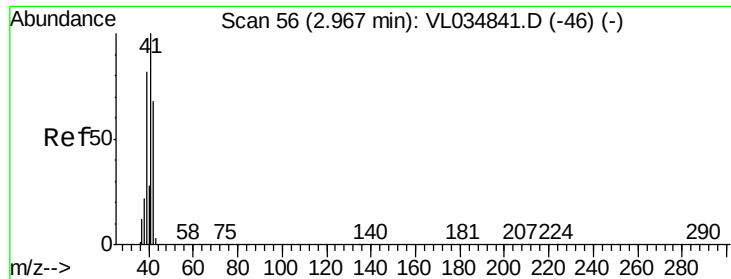
Tgt Ion: 85 Resp: 70240

Ion Ratio Lower Upper

85 100

135 65.8 54.3 81.5





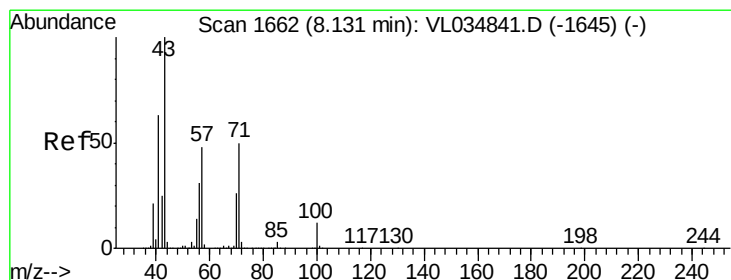
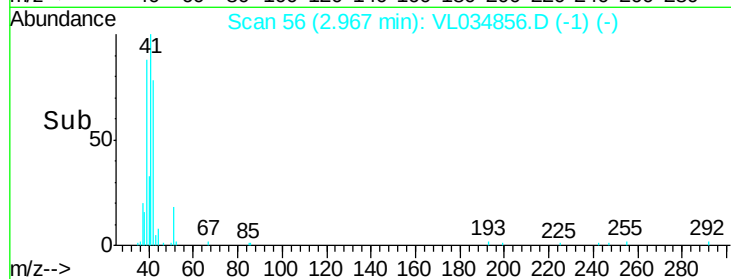
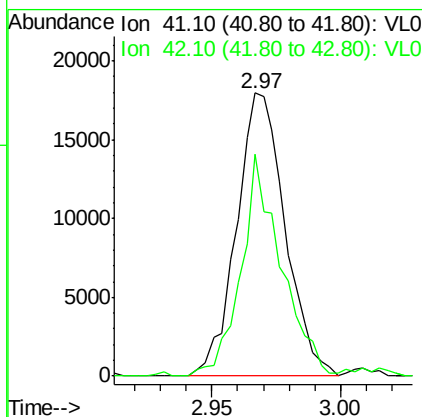
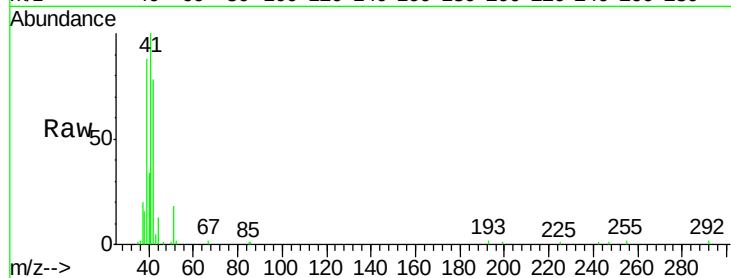
#9
 Propene
 Concen: 0.505 ppbv
 RT: 2.97 min Scan# 56
 Delta R.T. 0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Tot Ion	41	Resp	23611
Ion Ratio	100	Lower	Upper
41	100		
42	67.5	55.2	82.8

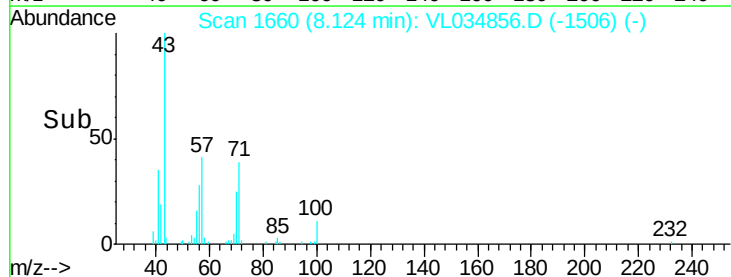
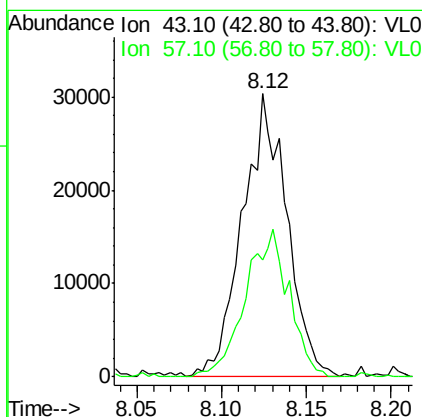
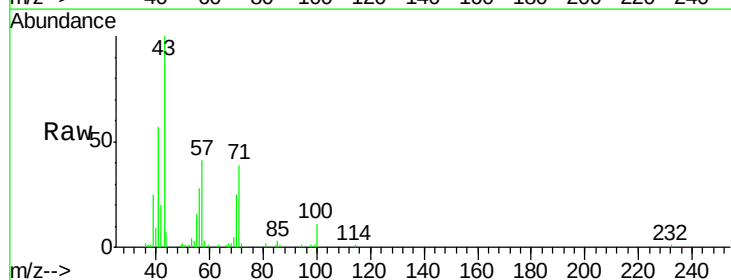
Manual Integrations
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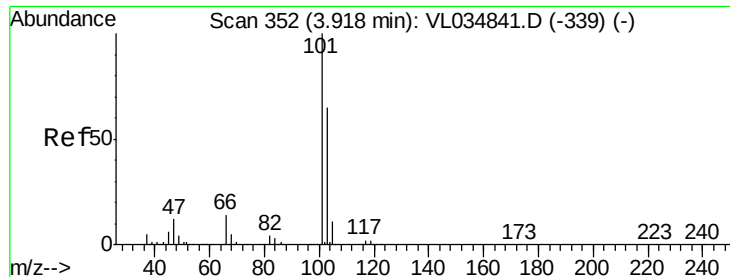
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#10
 Heptane
 Concen: 0.481 ppbv m
 RT: 8.12 min Scan# 1660
 Delta R.T. -0.01 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	43	Resp	55286
Ion Ratio	100	Lower	Upper
43	100		
57	0.0	39.7	59.5#





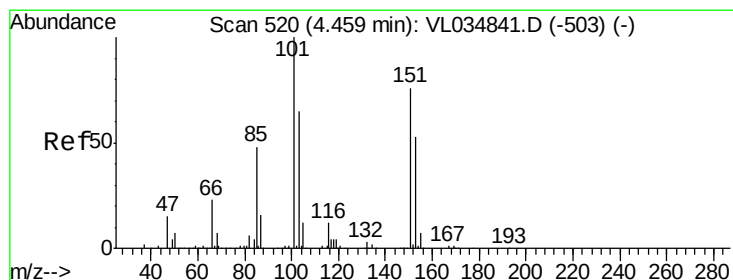
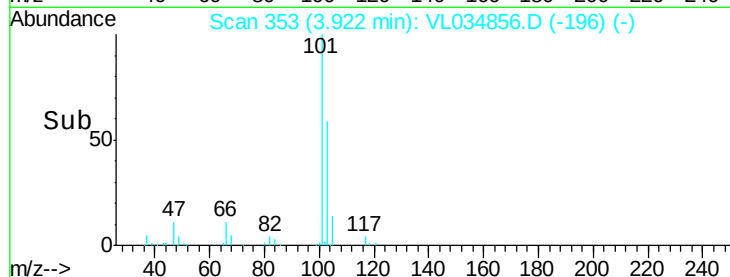
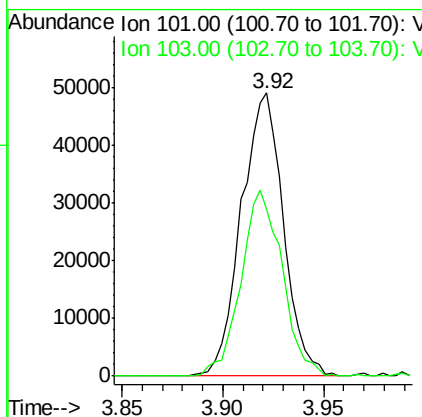
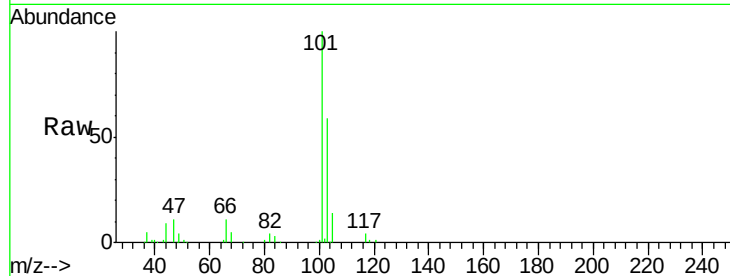
#11
 Trichlorofluoromethane
 Concen: 0.563 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. 0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.0	51.8	77.8

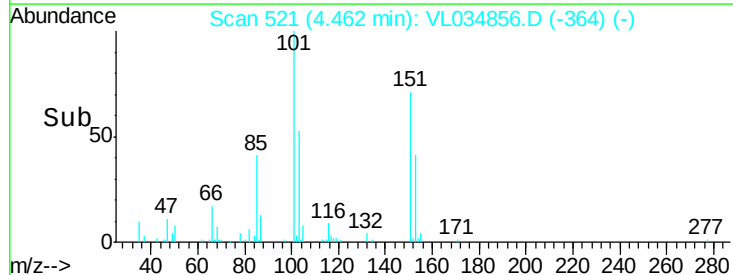
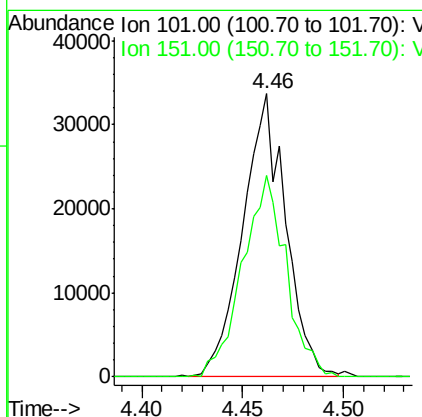
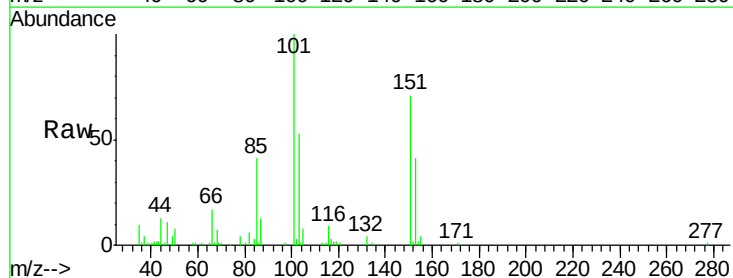
Manual Integrations
 APPROVED

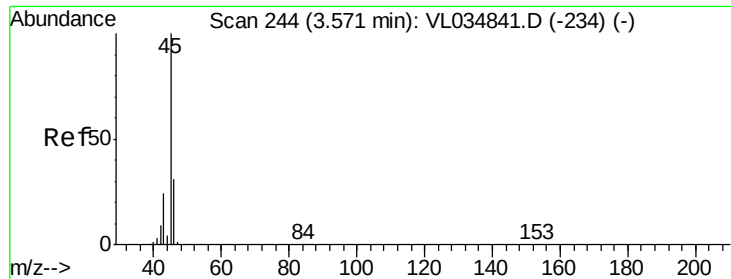
MMDadoda
 3/11/2020 3:26:16 PM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.560 ppbv
 RT: 4.46 min Scan# 521
 Delta R.T. 0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
101	100		
151	72.3	60.8	91.2





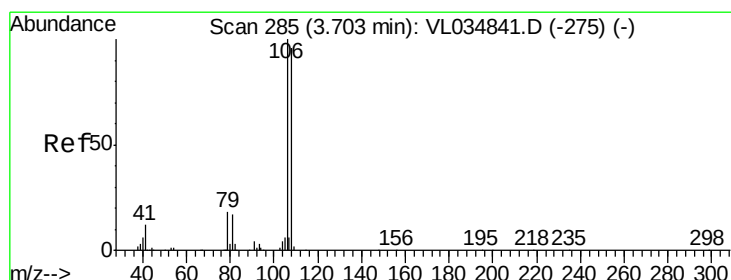
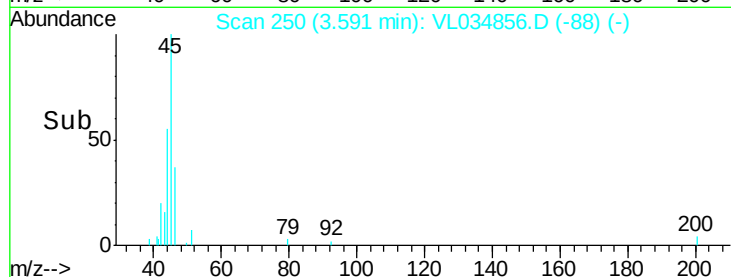
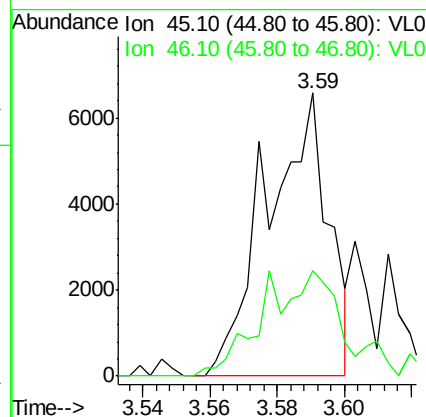
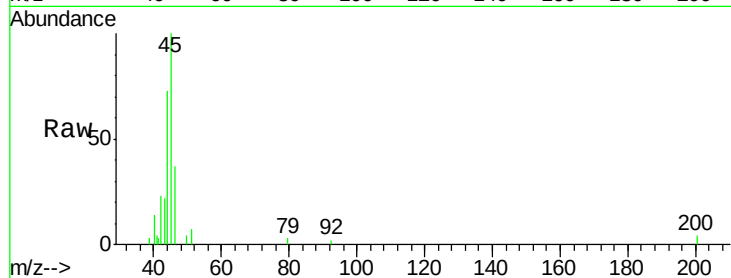
#13
Ethanol
Concen: 0.591 ppbv m
RT: 3.59 min Scan# 250
Delta R.T. 0.02 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion: 45 Resp: 8402
Ion Ratio Lower Upper
45 100
46 54.2 16.0 64.0

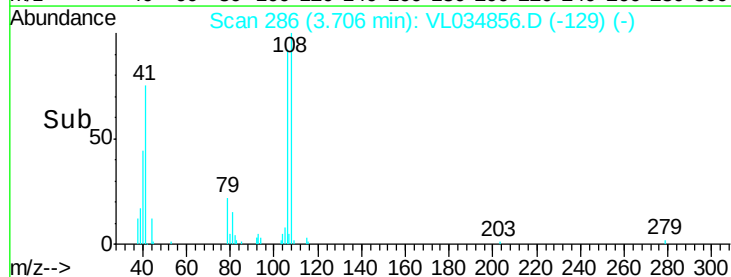
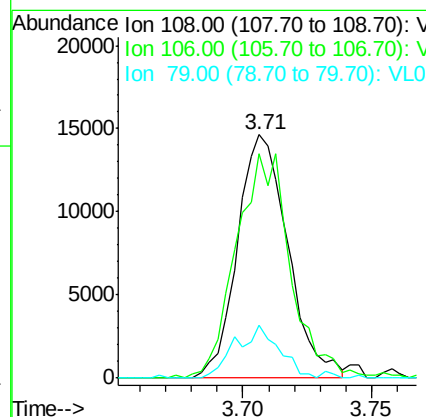
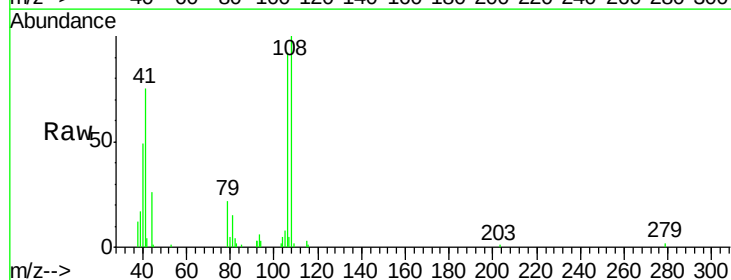
Manual Integrations
APPROVED

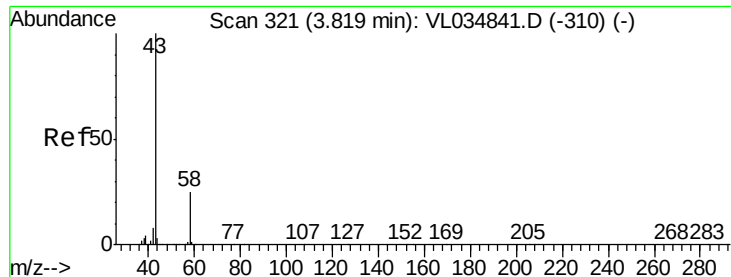
MMDadoda
3/11/2020 3:26:16 PM



#14
Bromoethene
Concen: 0.519 ppbv
RT: 3.71 min Scan# 286
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion: 108 Resp: 20030
Ion Ratio Lower Upper
108 100
106 100.9 85.1 127.7
79 19.6 14.7 22.1





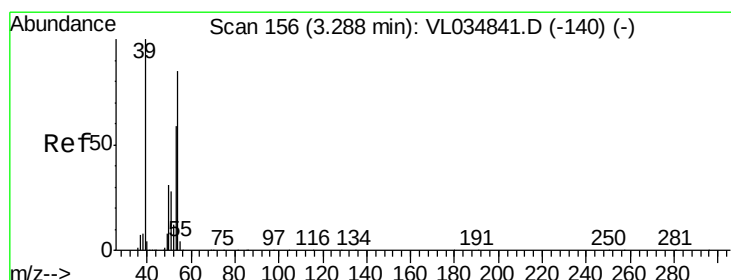
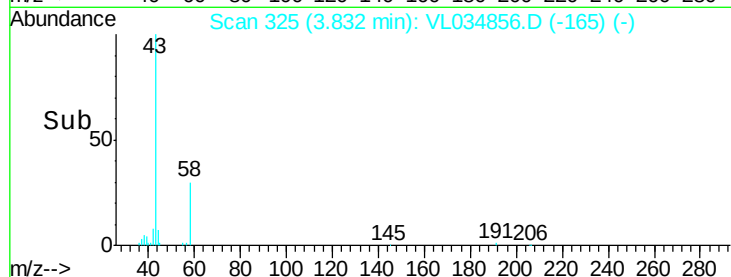
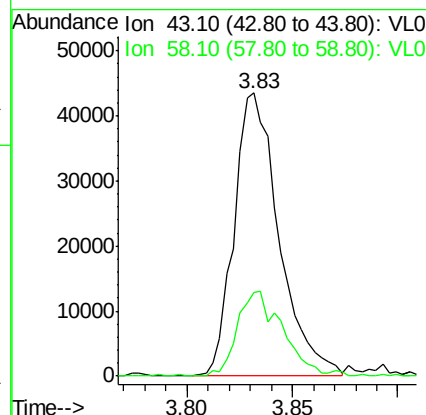
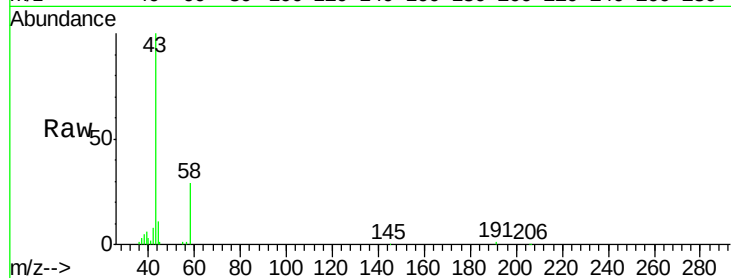
#15
Acetone
Concen: 0.564 ppbv
RT: 3.83 min Scan# 325
Delta R.T. 0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
43	100		
58	30.9	21.0	31.6

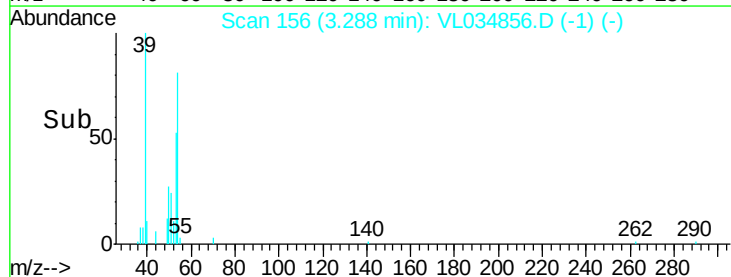
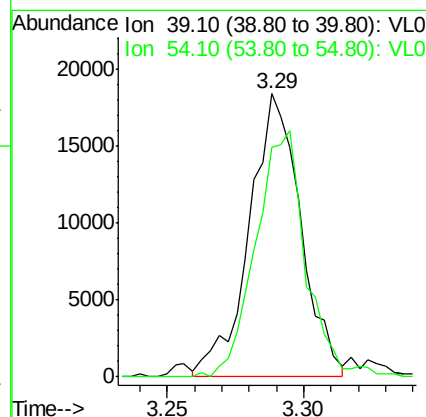
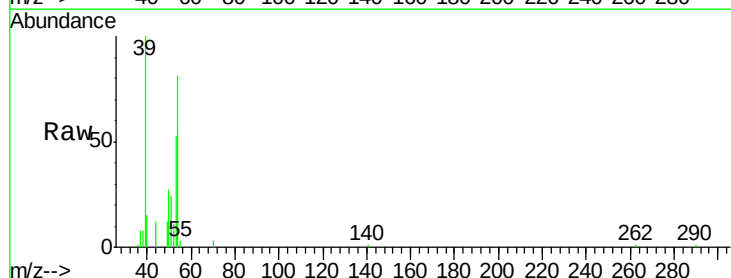
Manual Integrations
APPROVED

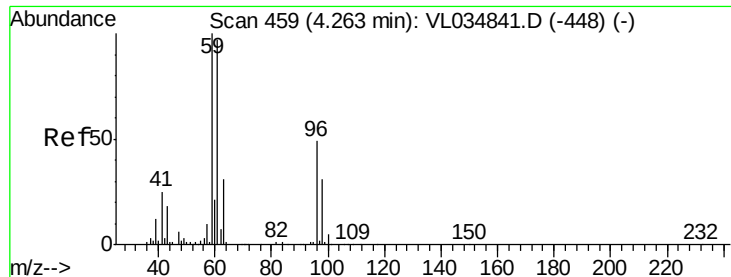
MMDadoda
3/11/2020 3:26:16 PM



#16
1,3-Butadiene
Concen: 0.468 ppbv
RT: 3.29 min Scan# 156
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
39	100		
54	84.4	65.0	97.6





#17

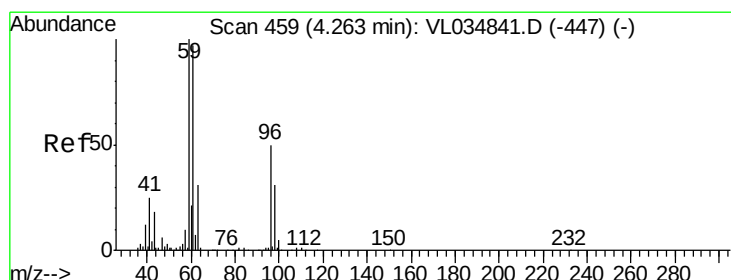
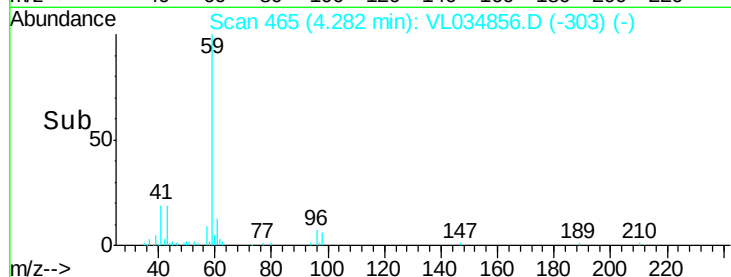
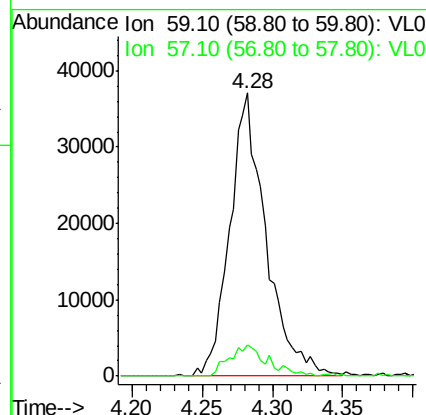
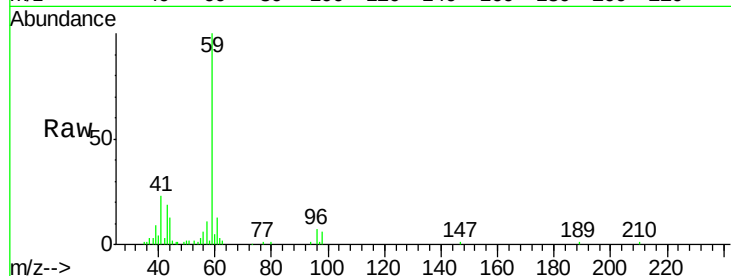
tert-Butyl alcohol
Concen: 0.608 ppbv
RT: 4.28 min Scan# 465
Delta R.T. 0.02 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.9	8.3	12.5

Manual Integrations
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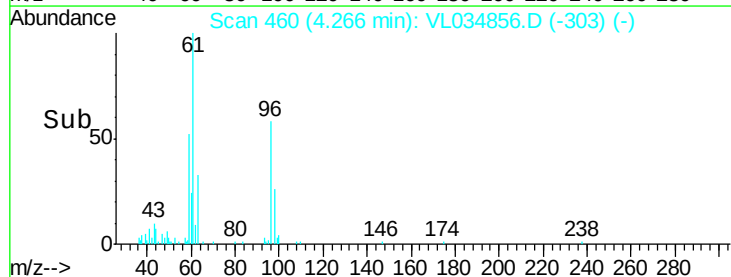
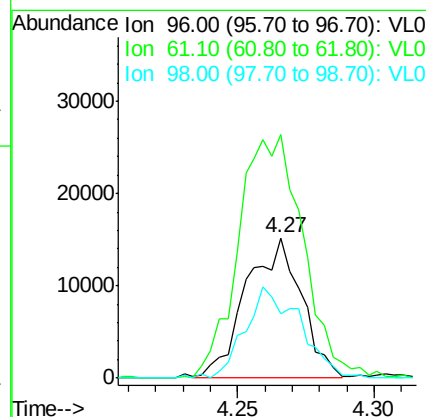
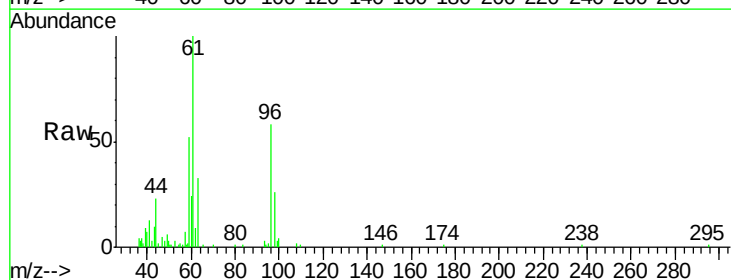
MMDadoda
3/11/2020 3:26:16 PM

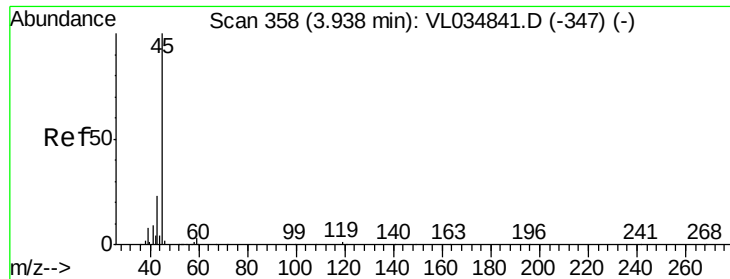


#18

1,1-Dichloroethene
Concen: 0.543 ppbv m
RT: 4.27 min Scan# 460
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	173.3	157.3	235.9
98	45.6	50.2	75.4#





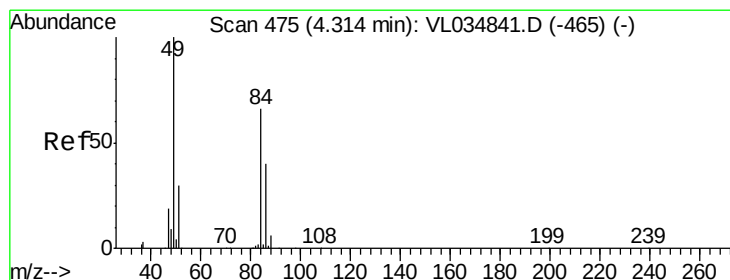
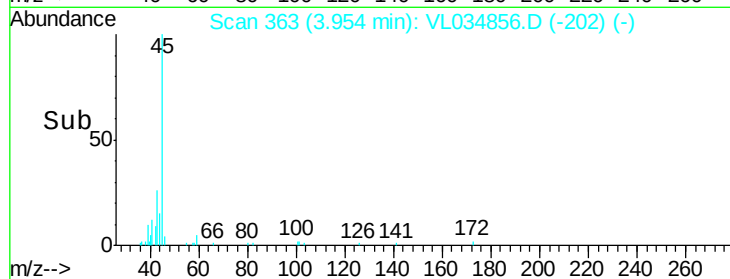
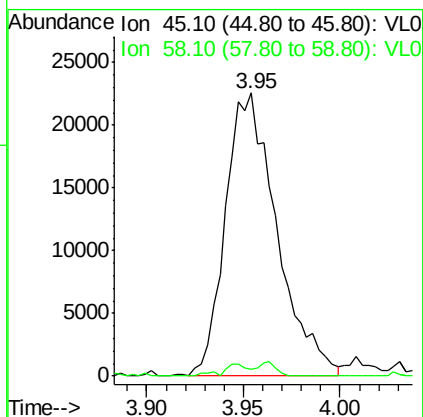
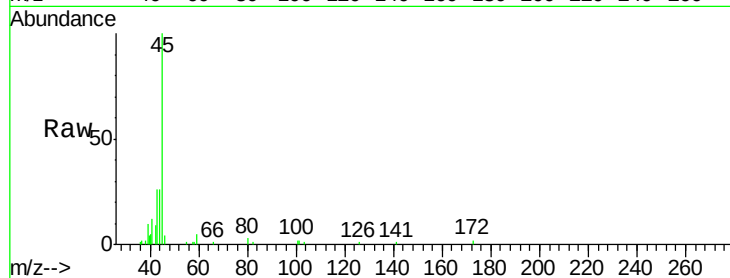
#19
Isopropyl Alcohol
Concen: 0.582 ppbv
RT: 3.95 min Scan# 363
Delta R.T. 0.02 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion: 45 Resp: 41727
Ion Ratio Lower Upper
45 100
58 3.8 30.5 45.7#

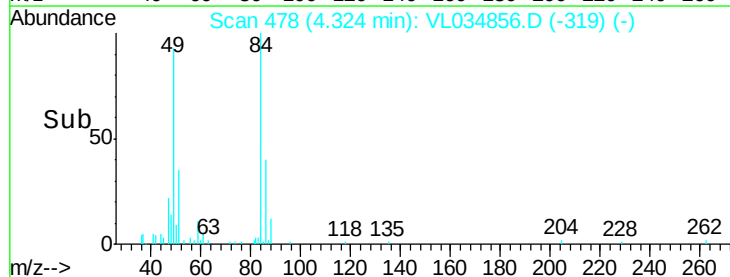
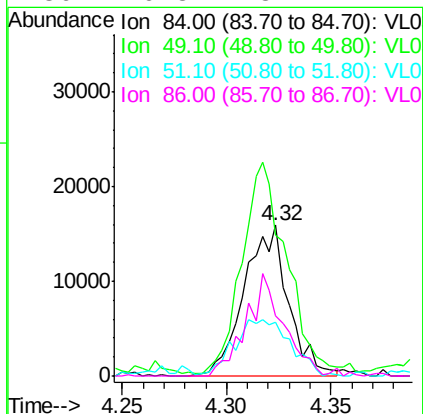
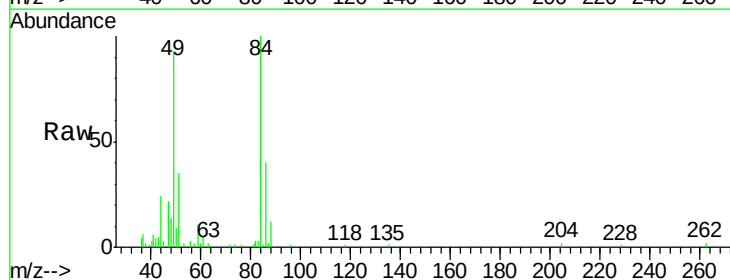
Manual Integrations
APPROVED

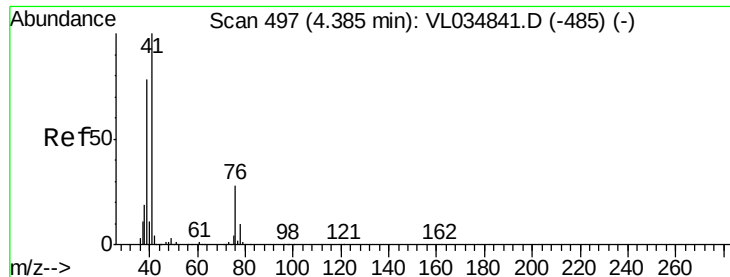
MMDadoda
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#20
Methylene Chloride
Concen: 0.649 ppbv m
RT: 4.32 min Scan# 478
Delta R.T. 0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion: 84 Resp: 23295
Ion Ratio Lower Upper
84 100
49 93.0 121.5 182.3#
51 35.4 36.6 55.0#
86 40.3 48.2 72.2#





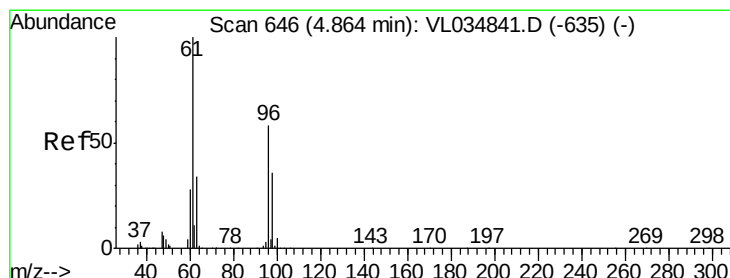
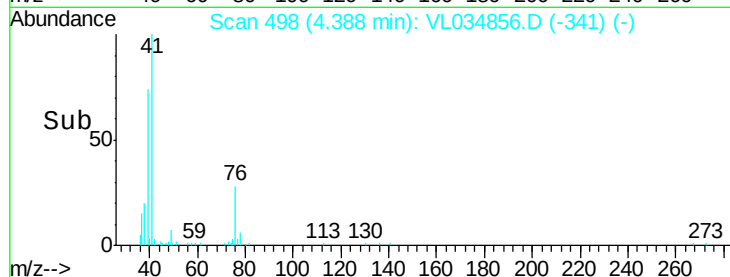
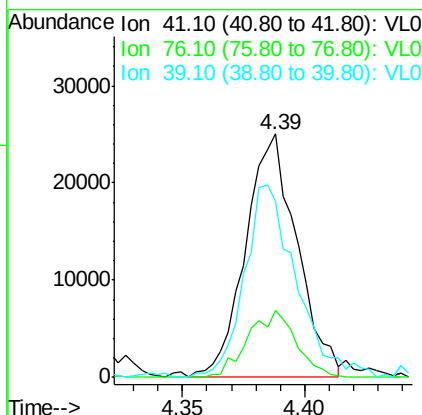
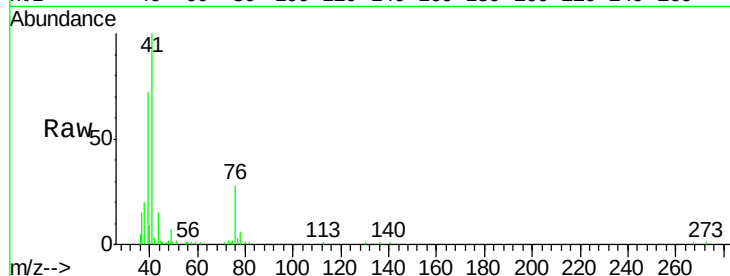
#21
Allvl Chloride
Concen: 0.502 ppbv
RT: 4.39 min Scan# 498
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
41	100		
76	25.8	22.2	33.2
39	82.0	62.6	93.8

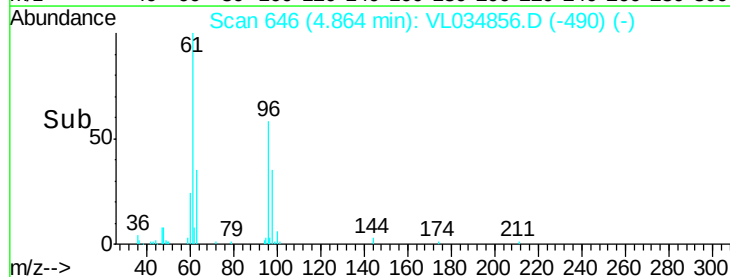
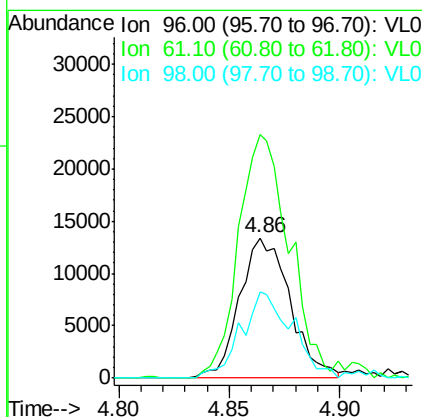
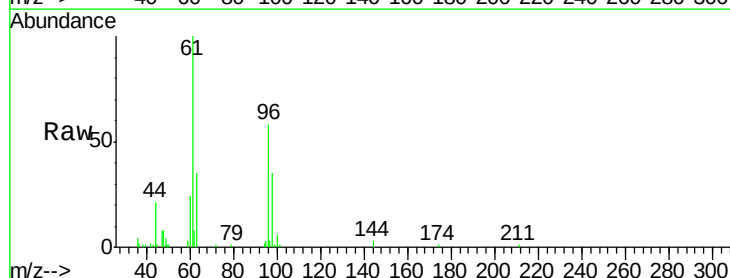
Manual Integrations
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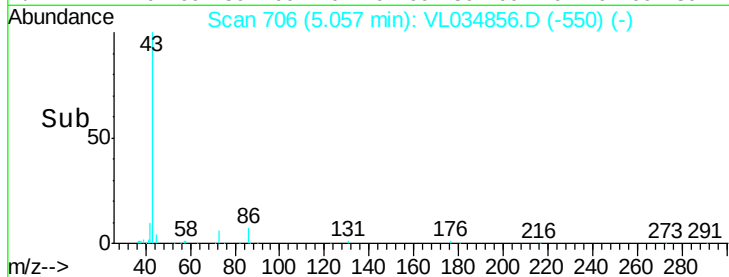
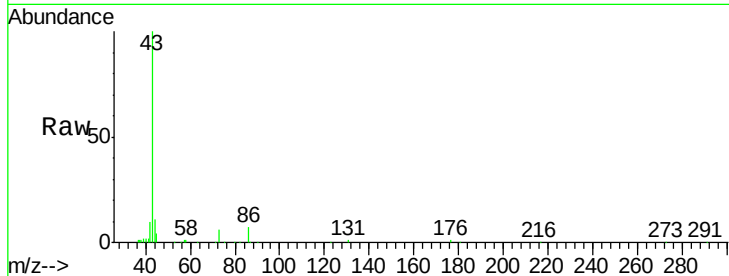
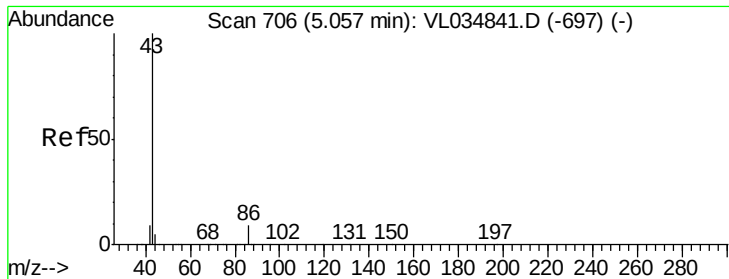
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 0.531 ppbv
RT: 4.86 min Scan# 646
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.0	139.0	208.6
98	59.8	50.3	75.5





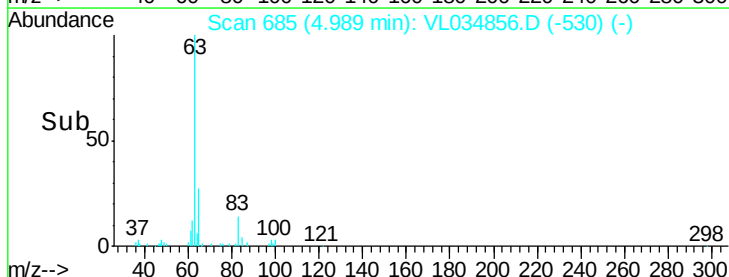
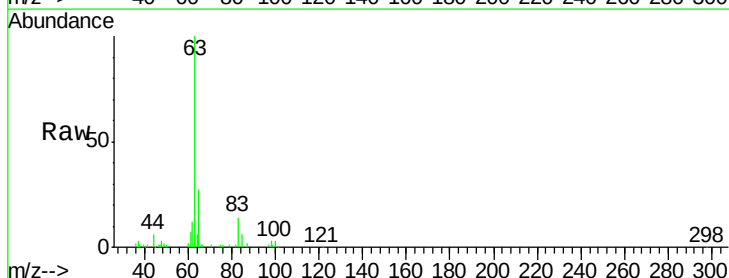
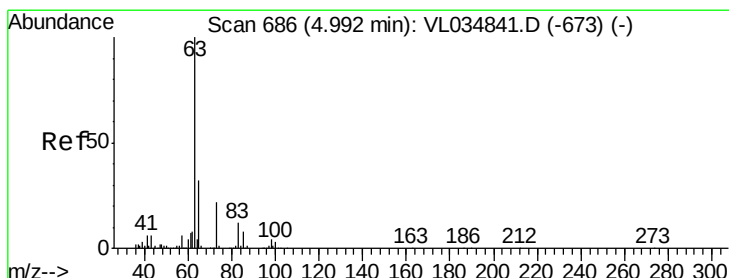
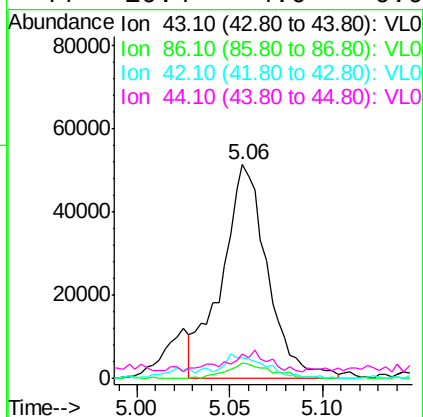
#23
 Vinyl Acetate
 Concen: 0.521 ppbv
 RT: 5.06 min Scan# 706
 Delta R.T. 0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tot Ion	Ratio	Resp	Lower	Upper
43	100	87383		
86	7.5		6.3	9.5
42	9.7		7.8	11.8
44	10.4		4.0	6.0

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

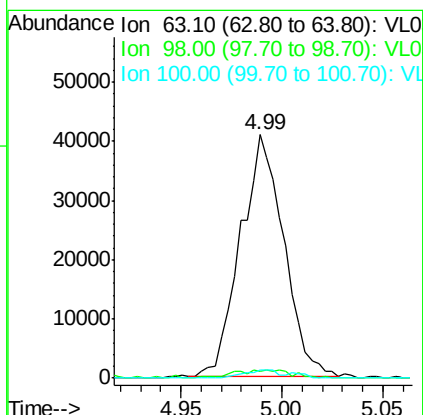
Manual Integrations
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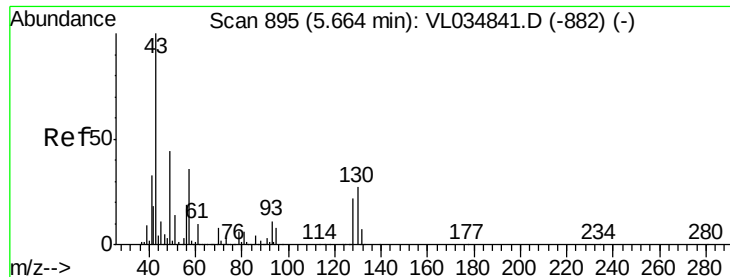
MMDadoda
 3/11/2020 3:26:16 PM



#24
 1,1-Dichloroethane
 Concen: 0.549 ppbv
 RT: 4.99 min Scan# 685
 Delta R.T. -0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	61771		
98	3.1		2.0	5.8
100	3.5		1.4	4.0





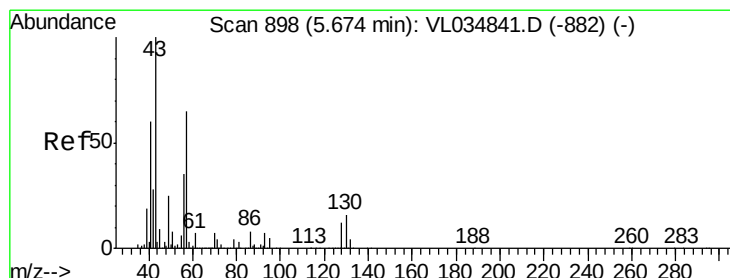
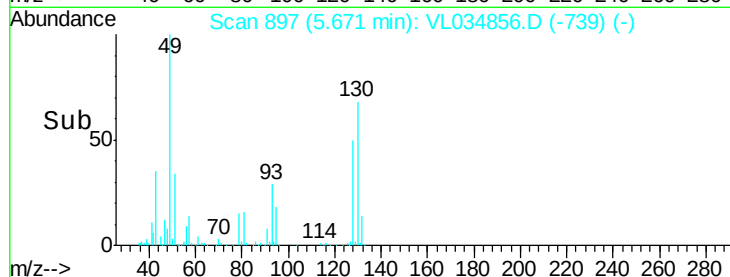
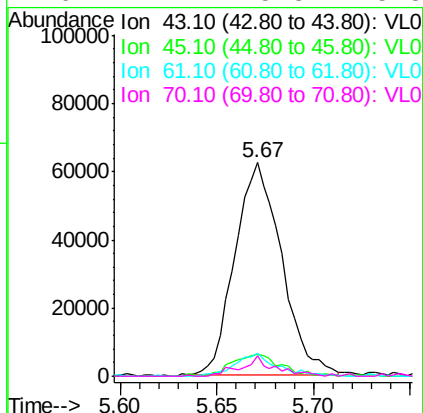
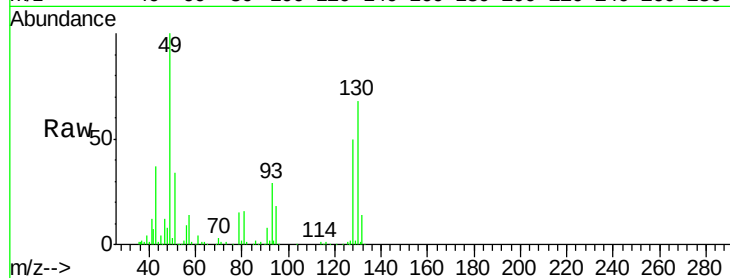
#25
Ethyl Acetate
Concen: 0.511 ppbv
RT: 5.67 min Scan# 897
Delta R.T. 0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
43	100		
45	11.3	8.2	12.2
61	10.1	7.8	11.6
70	7.2	5.8	8.8

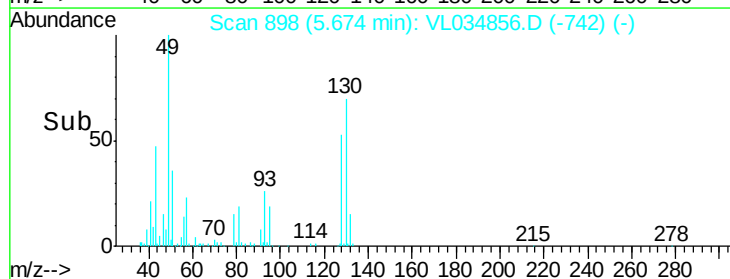
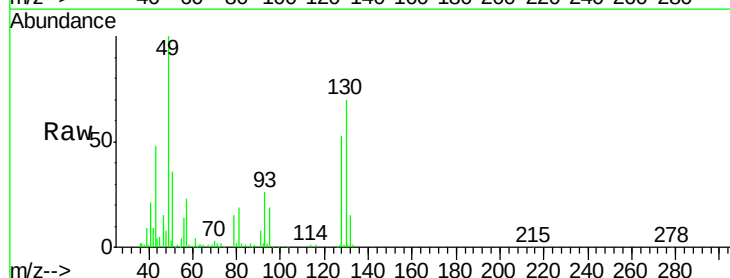
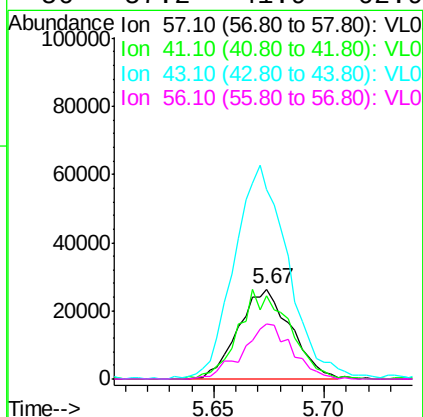
Manual Integrations
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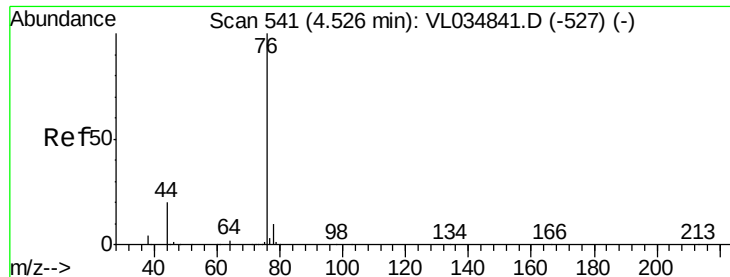
MMDadoda
3/11/2020 3:26:16 PM



#26
Hexane
Concen: 0.504 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
57	100		
41	96.4	72.6	109.0
43	248.0	183.8	275.6
56	57.2	41.9	62.9





#27

Carbon Disulfide

Concen: 0.432 ppbv

RT: 4.53 min Scan# 541

Delta R.T. 0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

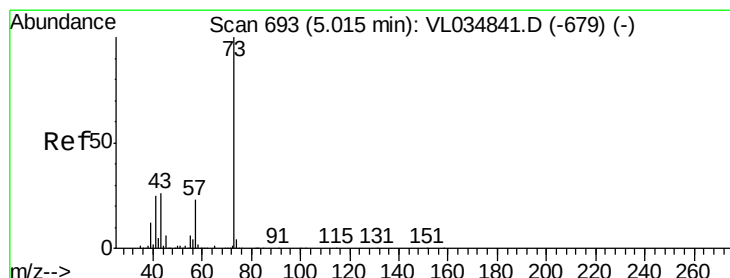
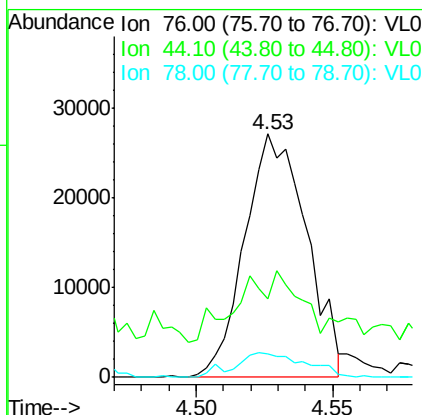
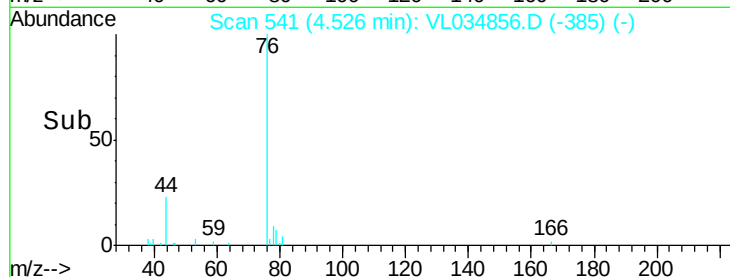
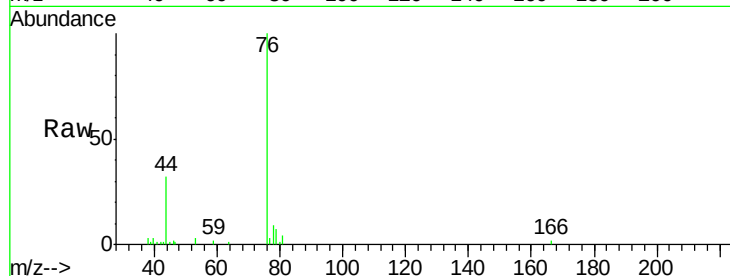
ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion:	76	Resp:	42674
Ion	Ratio	Lower	Upper
76	100		
44	37.3	16.2	24.2#
78	11.5	7.8	11.6

Manual Integrations
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3/11/2020 3:26:16 PM



#28

Methyl tert-Butyl Ether

Concen: 0.479 ppbv

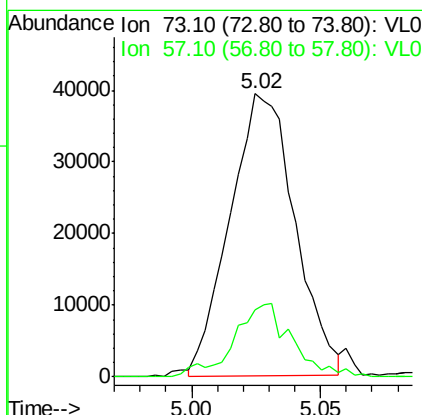
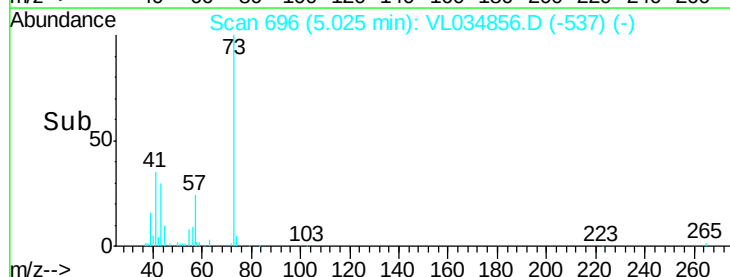
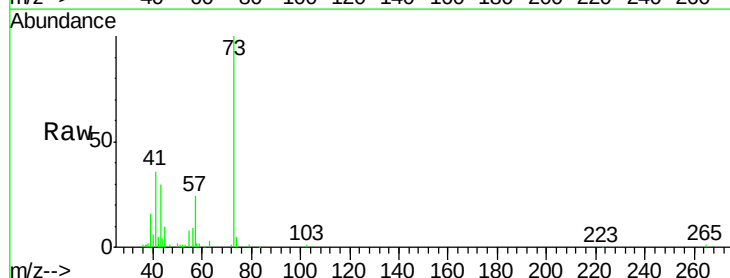
RT: 5.02 min Scan# 696

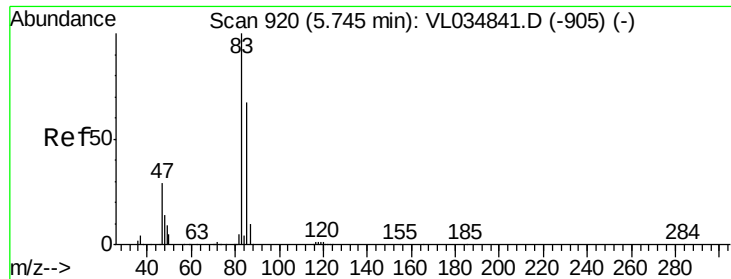
Delta R.T. 0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Tgt Ion:	73	Resp:	69375
Ion	Ratio	Lower	Upper
73	100		
57	23.2	18.3	27.5





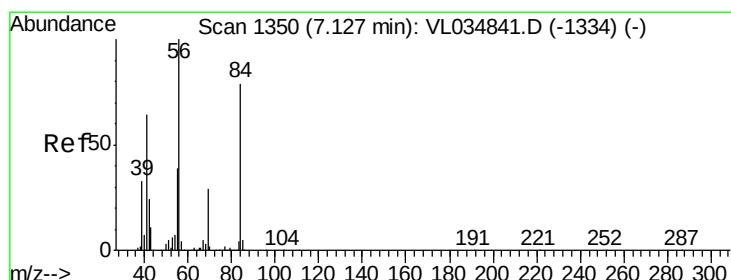
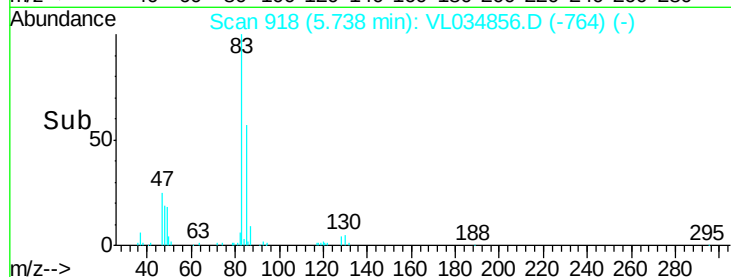
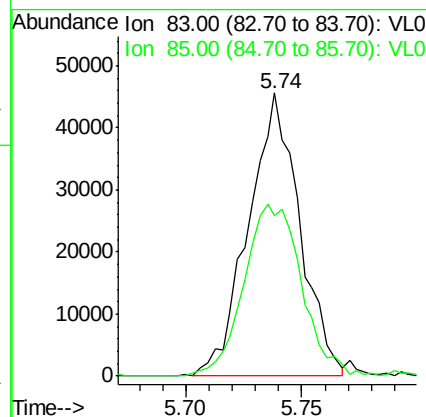
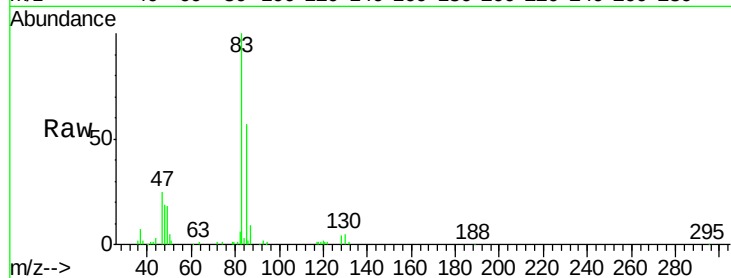
#29
Chloroform
Concen: 0.527 ppbv
RT: 5.74 min Scan# 918
Delta R.T. -0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	83	Resp	70008
Ion Ratio	Lower	Upper	
83	100		
85	55.4	53.8	80.6

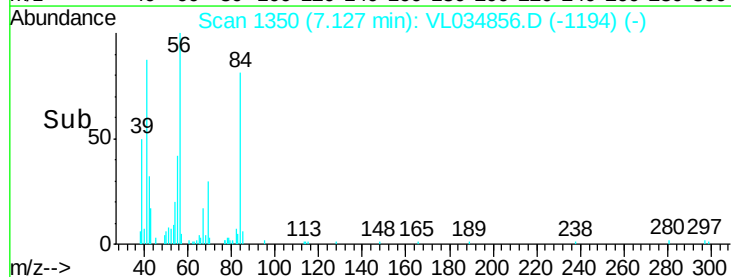
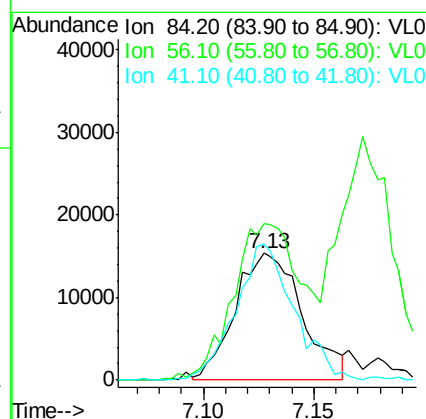
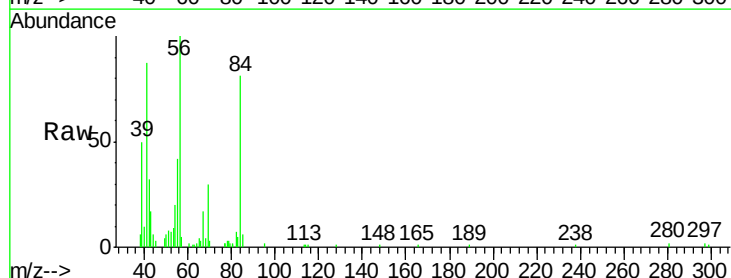
Manual Integrations
APPROVED

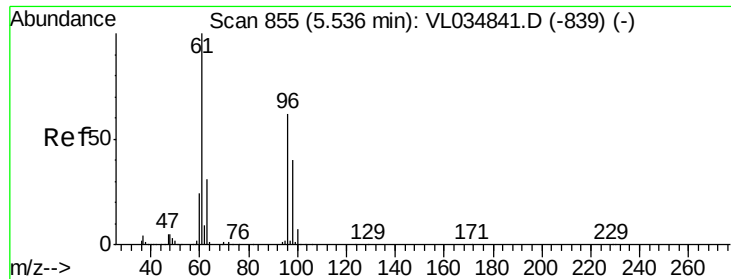
MMDadoda
3/11/2020 3:26:16 PM



#30
Cyclohexane
Concen: 0.445 ppbv
RT: 7.13 min Scan# 1350
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	84	Resp	32321
Ion Ratio	Lower	Upper	
84	100		
56	128.9	110.5	165.7
41	94.7	68.2	102.4





#31

cis-1,2-Dichloroethene

Concen: 0.497 ppbv

RT: 5.53 min Scan# 854

Delta R.T. -0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

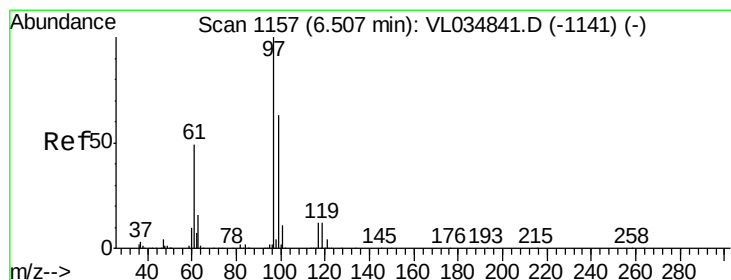
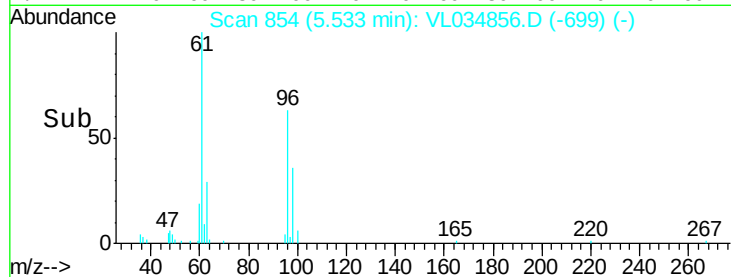
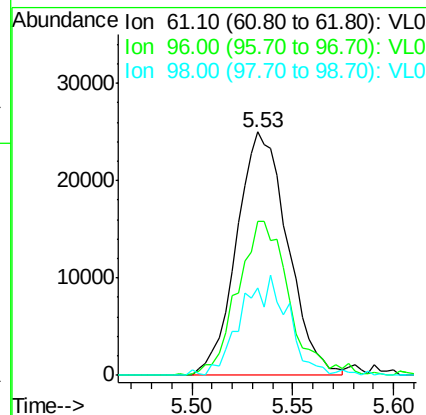
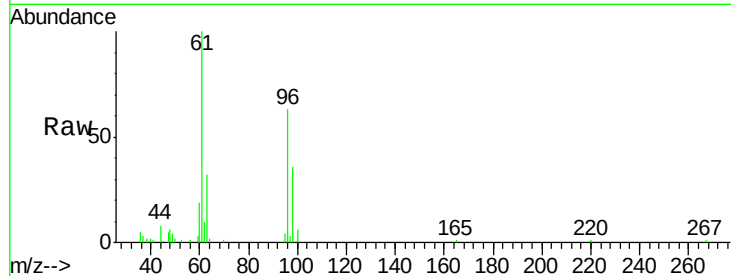
ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion:	61	Resp:	44249
Ion	Ratio	Lower	Upper
61	100		
96	62.7	49.8	74.8
98	33.3	32.2	48.4

Manual Integrations
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3/11/2020 3:26:16 PM



#32

1,1,1-Trichloroethane

Concen: 0.553 ppbv m

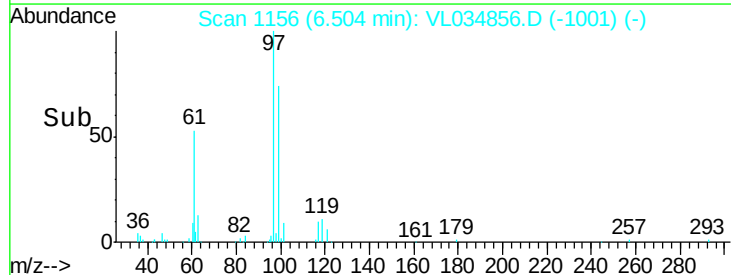
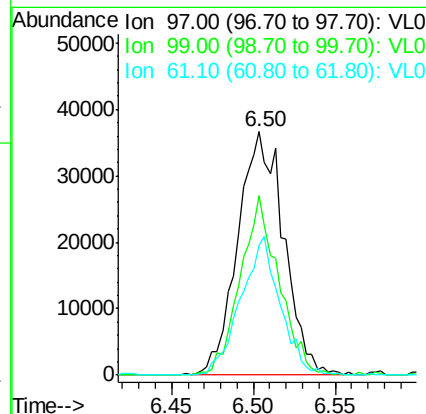
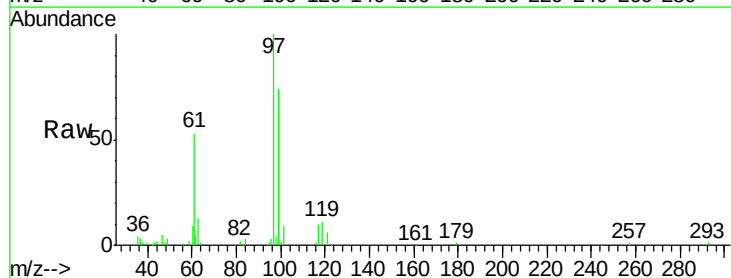
RT: 6.50 min Scan# 1156

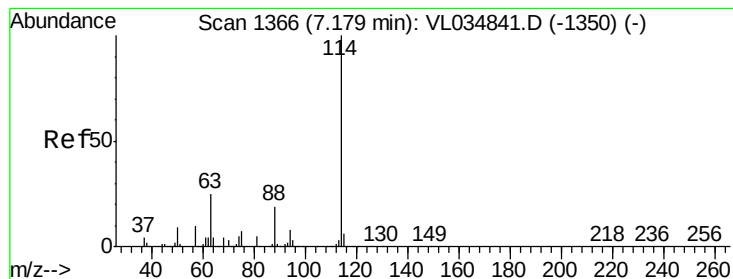
Delta R.T. -0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Tgt Ion:	97	Resp:	71665
Ion	Ratio	Lower	Upper
97	100		
99	61.8	51.1	76.7
61	48.5	39.7	59.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1364

Delta R.T. -0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion:114 Resp: 1975131

Ion Ratio Lower Upper

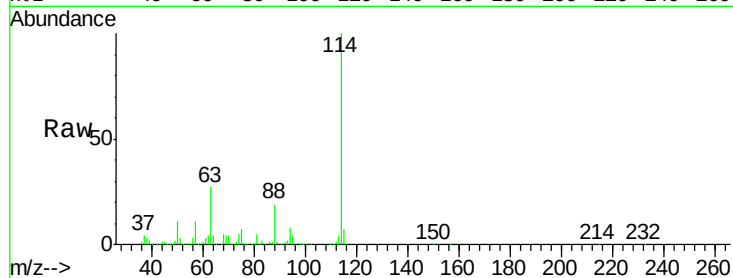
114 100

63 26.5 20.6 31.0

88 18.9 15.0 22.6

Manual Integrations
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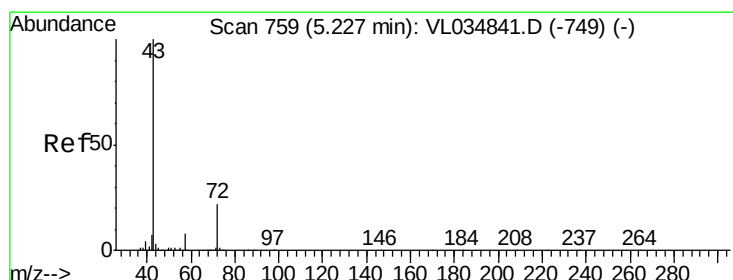
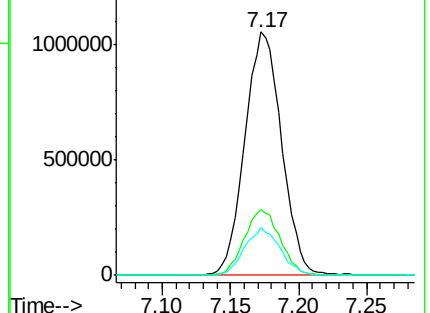
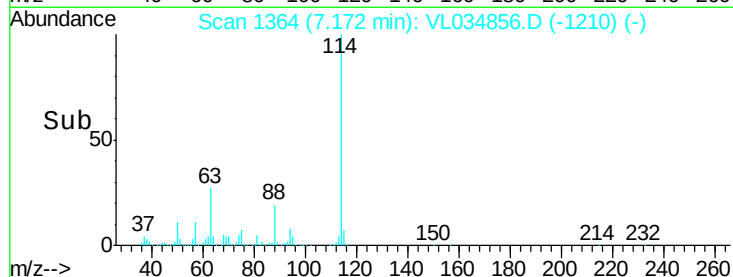
MMDadoda
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Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.504 ppbv

RT: 5.24 min Scan# 763

Delta R.T. 0.01 min

Lab File: VL034856.D

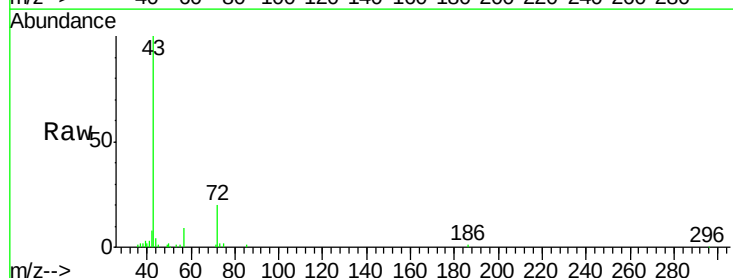
Acq: 10 Mar 2020 2:28

Tgt Ion: 43 Resp: 66176

Ion Ratio Lower Upper

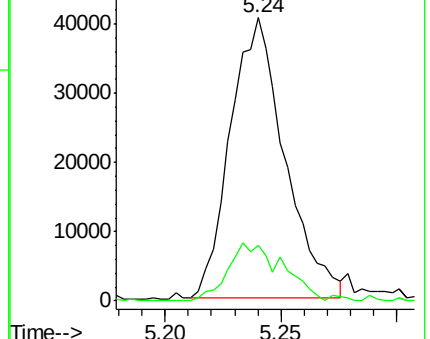
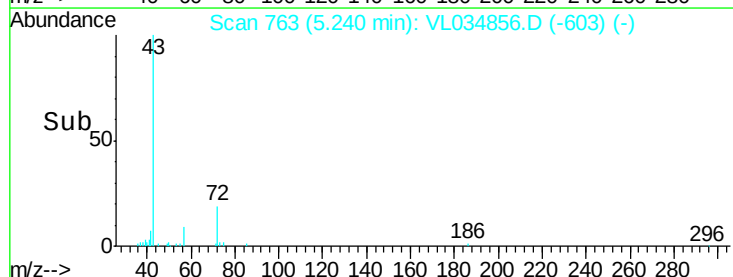
43 100

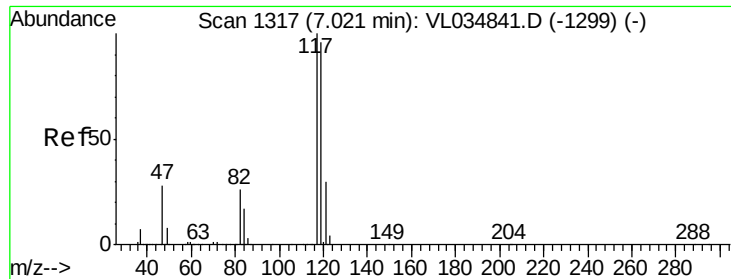
72 21.5 17.6 26.4



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





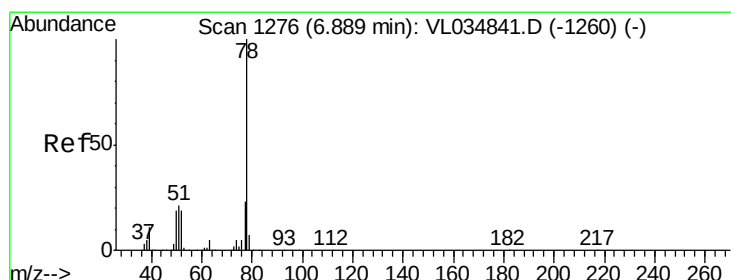
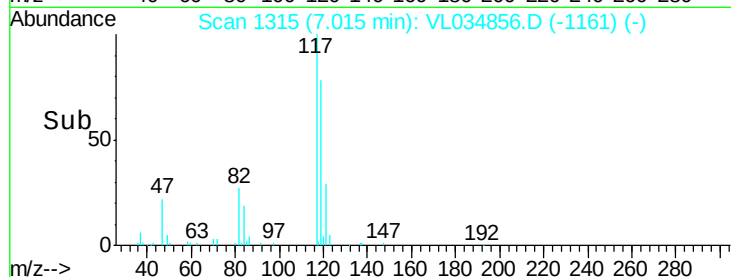
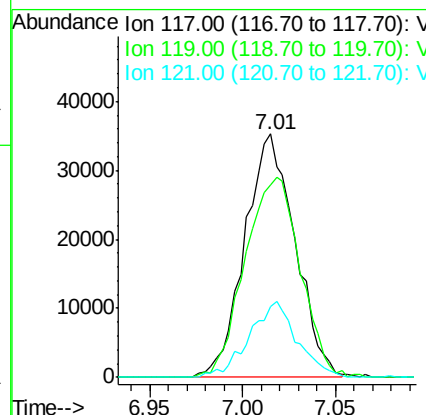
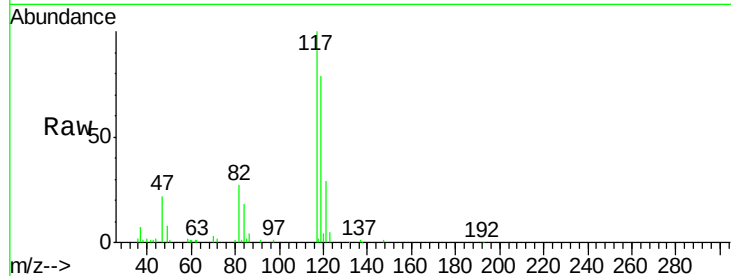
#35
Carbon Tetrachloride
Concen: 0.540 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. -0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
117	100		
119	79.3	77.0	115.4
121	29.2	24.0	36.0

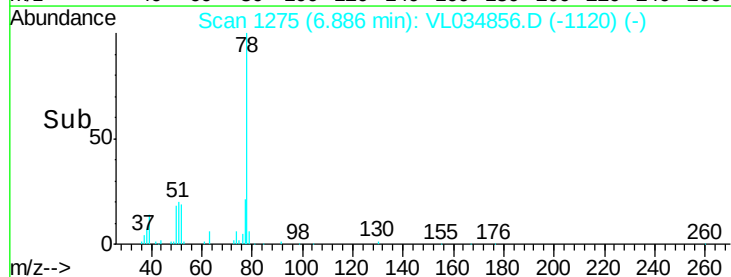
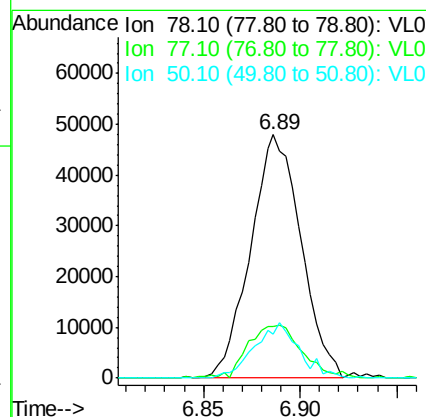
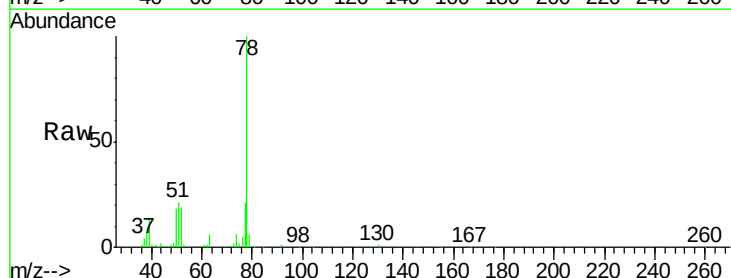
Manual Integrations
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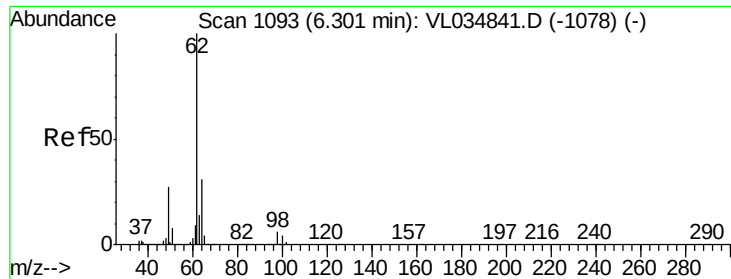
MMDadoda
3/11/2020 3:26:16 PM



#36
Benzene
Concen: 0.495 ppbv
RT: 6.89 min Scan# 1275
Delta R.T. -0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.4	18.2	27.2
50	18.1	15.2	22.8





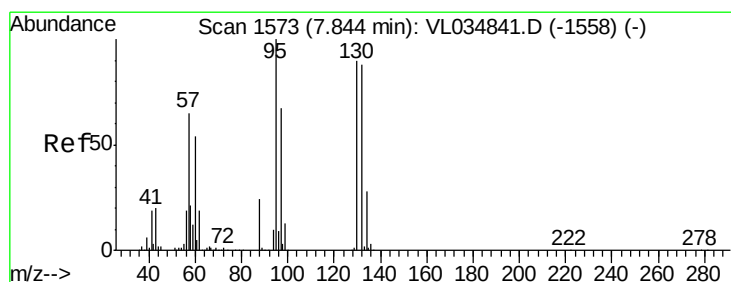
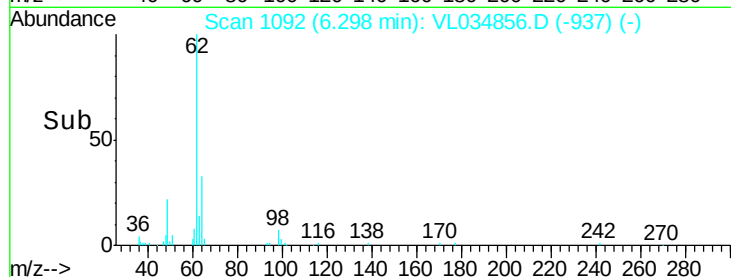
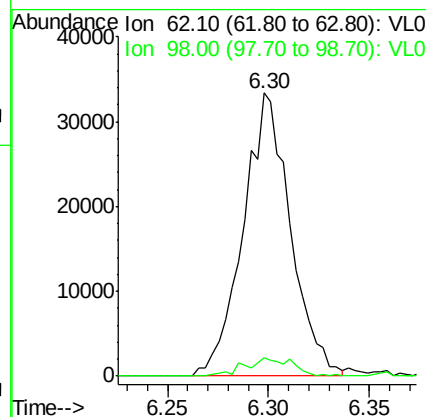
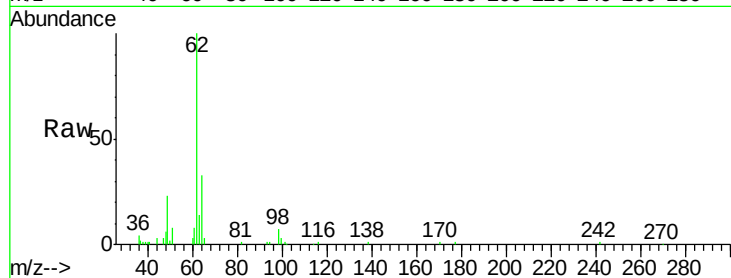
#37
 1,2-Dichloroethane
 Concen: 0.552 ppbv
 RT: 6.30 min Scan# 1092
 Delta R.T. -0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Resp	Lower	Upper
62	100	54748		
98	6.6		5.2	7.8

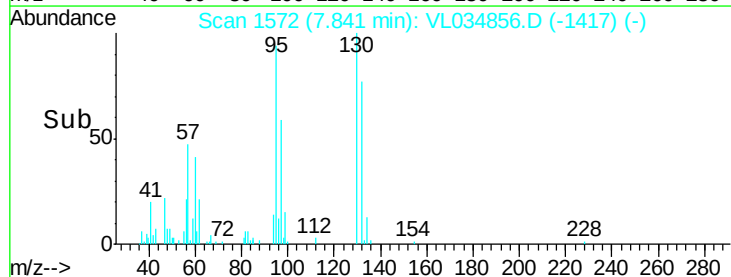
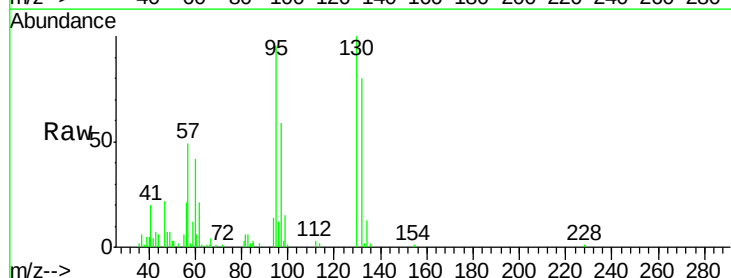
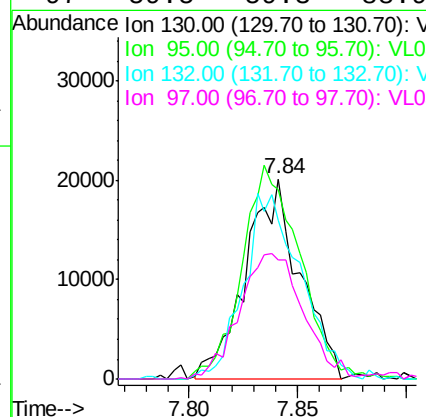
Manual Integrations
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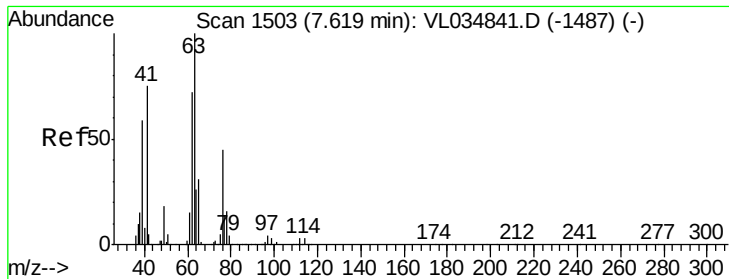
MMDadoda
 3/11/2020 3:26:16 PM



#38
 Trichloroethene
 Concen: 0.523 ppbv m
 RT: 7.84 min Scan# 1572
 Delta R.T. -0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	34969		
95	95.0		88.5	132.7
132	79.7		78.0	117.0
97	59.5		59.3	88.9





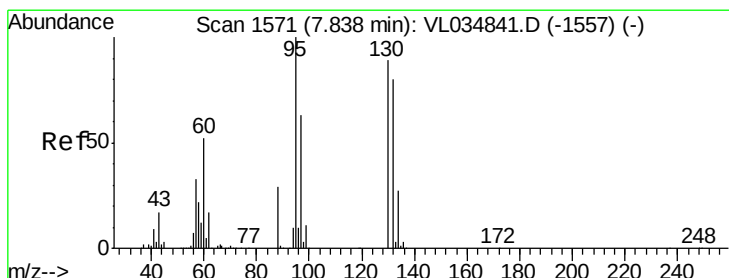
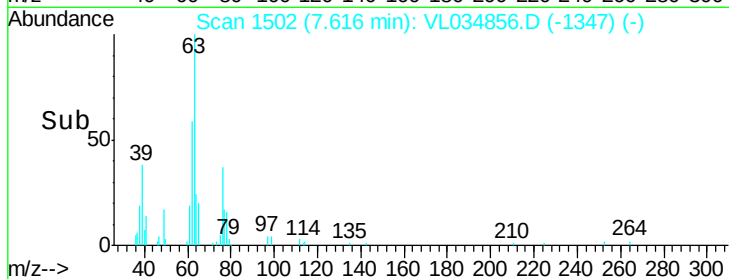
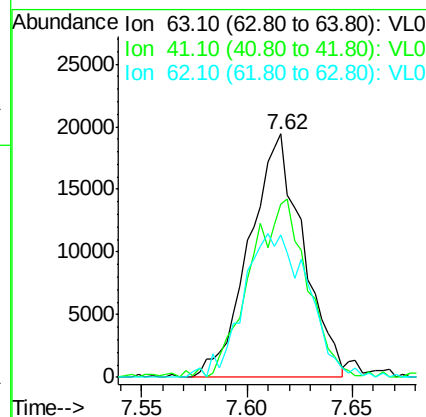
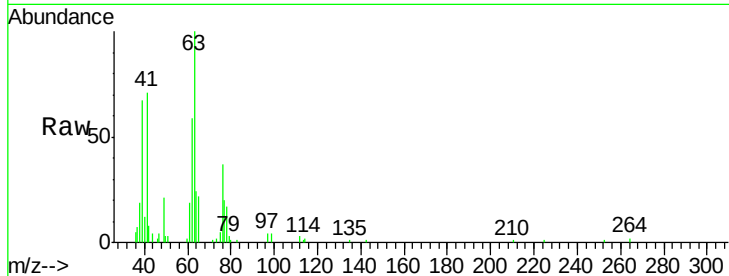
#39
 1,2-Dichloropropane
 Concen: 0.494 ppbv
 RT: 7.62 min Scan# 1502
 Delta R.T. -0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
63	100		
41	70.3	59.8	89.8
62	56.0	57.6	86.4#

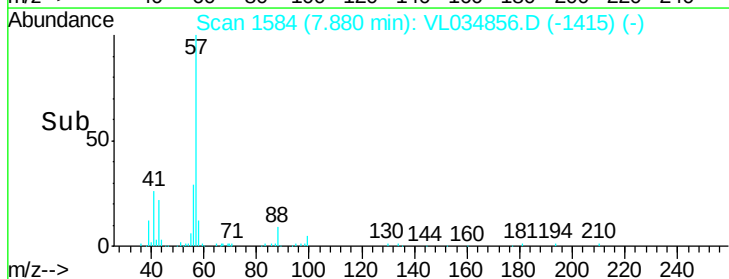
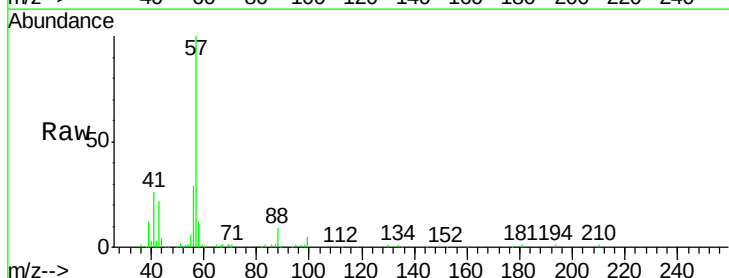
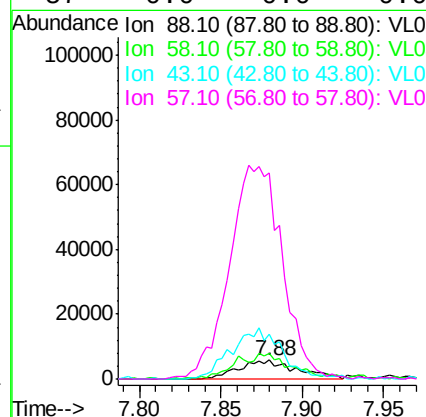
Manual Integrations
 APPROVED

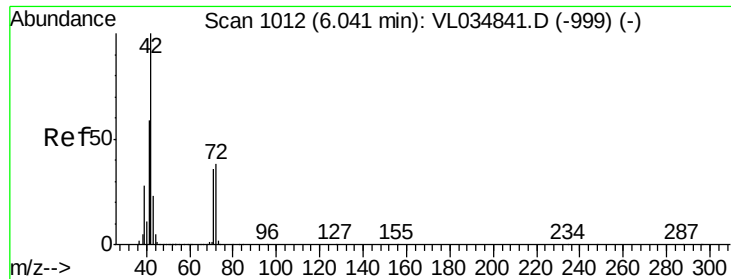
MMDadoda
 3/11/2020 3:26:16 PM



#40
 1,4-Dioxane
 Concen: 0.537 ppbv m
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.04 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	103.9	155.9#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





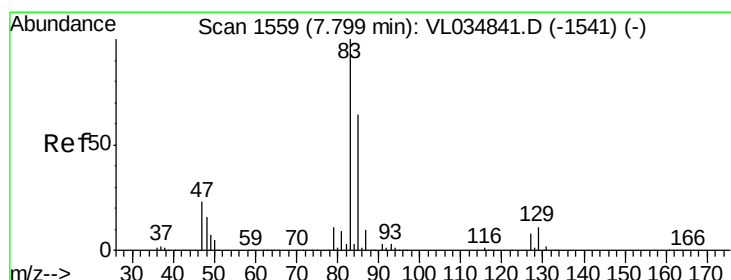
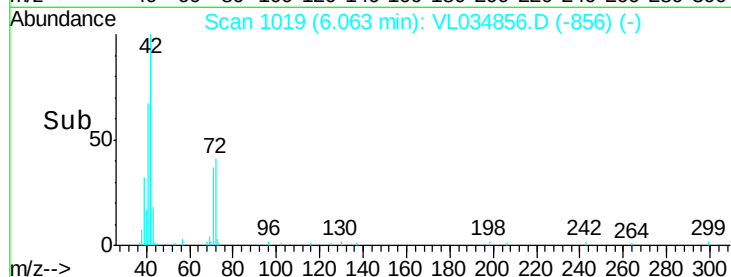
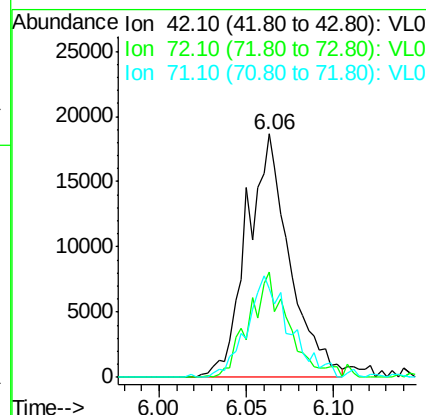
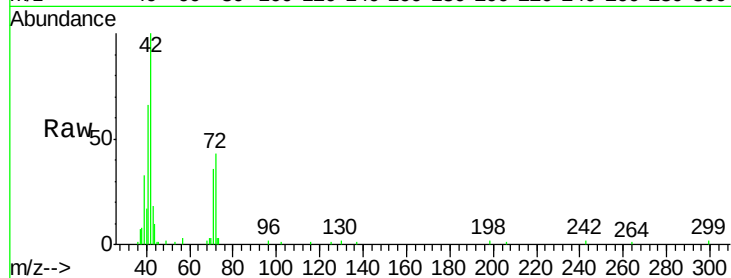
#41
Tetrahydrofuran
Concen: 0.448 ppbv m
RT: 6.06 min Scan# 1019
Delta R.T. 0.02 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	30.8	46.2#
71	0.0	30.1	45.1#

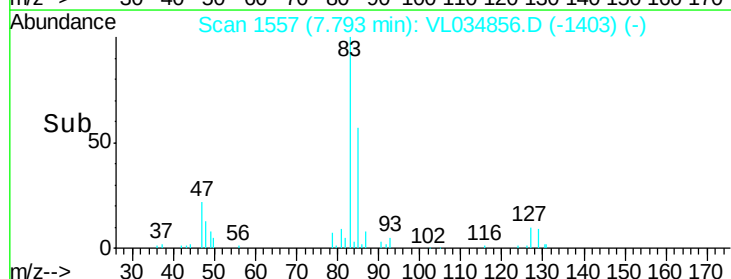
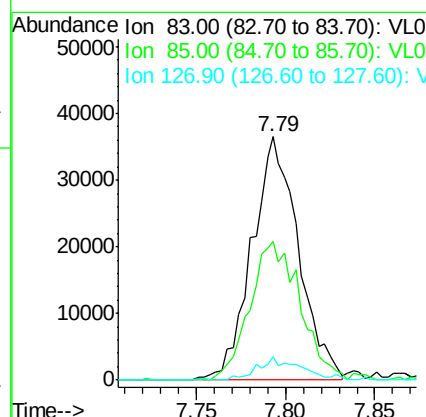
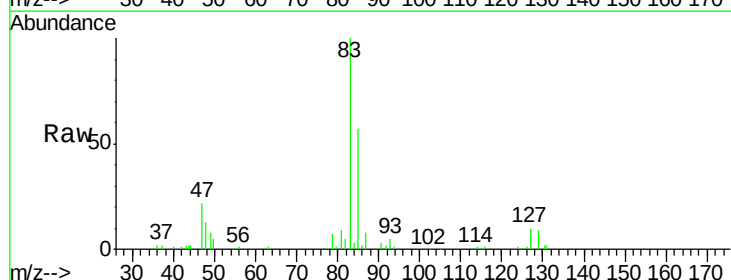
Manual Integrations
APPROVED

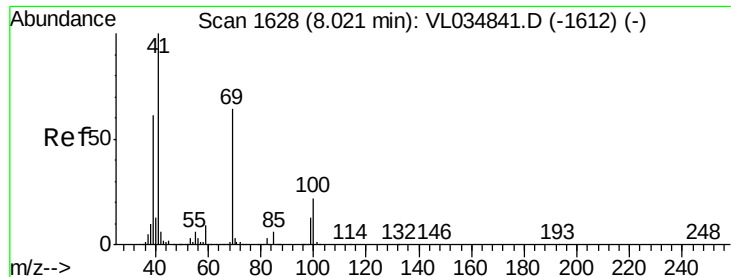
MMDadoda
3/11/2020 3:26:16 PM



#42
Bromodichloromethane
Concen: 0.492 ppbv
RT: 7.79 min Scan# 1557
Delta R.T. -0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	56.8	51.4	77.2
127	9.9	6.2	9.4#





#43

Methvl Methacrylate

Concen: 0.486 ppbv

RT: 8.03 min Scan# 1630

Delta R.T. 0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

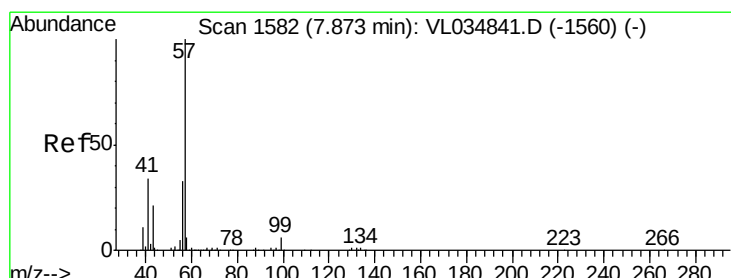
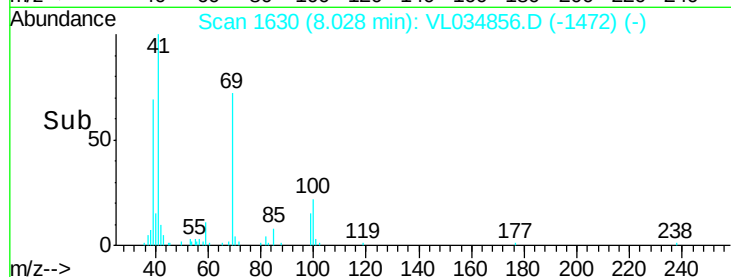
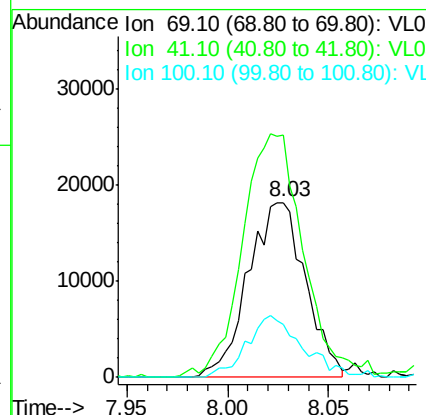
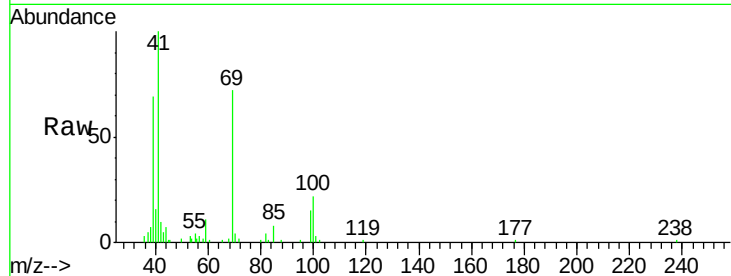
Instrument :
MSVOA_L

ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	148.0	123.2	184.8	
100	34.7	26.9	40.3	

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:26:16 PM



#44

2,2,4-Trimethylpentane

Concen: 0.500 ppbv m

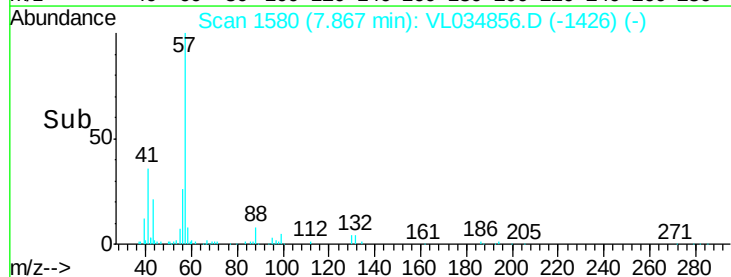
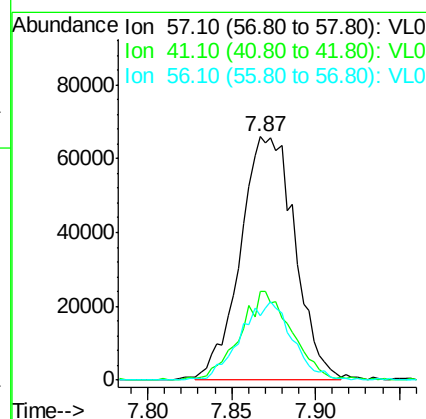
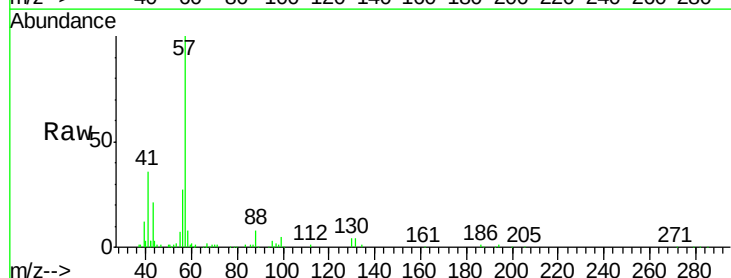
RT: 7.87 min Scan# 1580

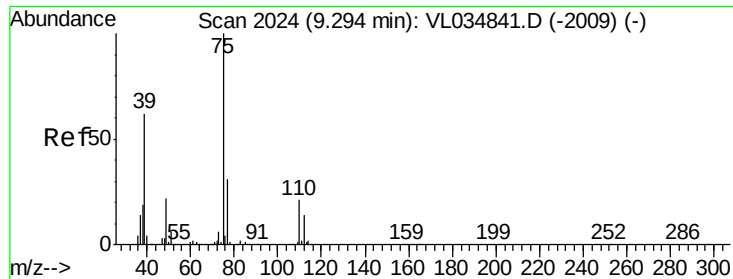
Delta R.T. -0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	35.1	26.2	39.4	
56	30.8	25.0	37.4	





#45

t-1,3-Dichloropropene

Concen: 0.390 ppbv m

RT: 9.29 min Scan# 2023

Delta R.T. -0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion: 75 Resp: 34006

Ion Ratio Lower Upper

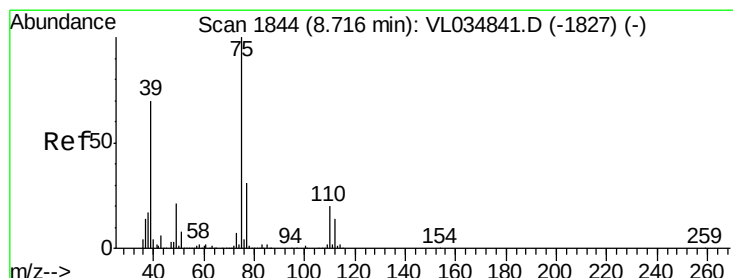
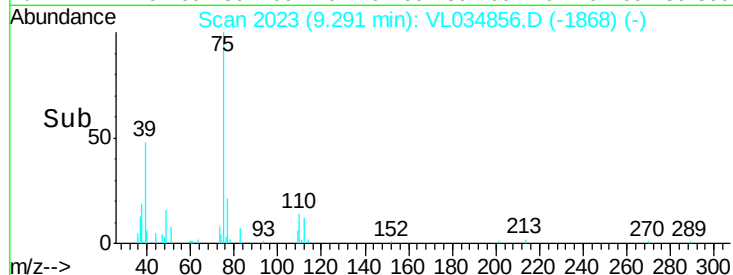
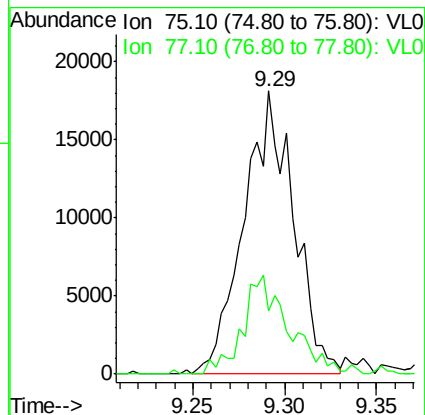
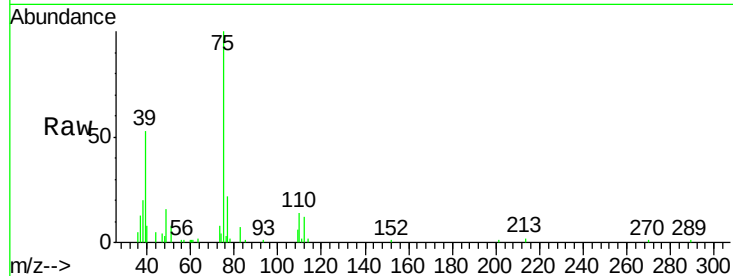
75 100

77 22.4 24.6 37.0#

Manual Integrations
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#46

cis-1,3-Dichloropropene

Concen: 0.405 ppbv m

RT: 8.71 min Scan# 1842

Delta R.T. -0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

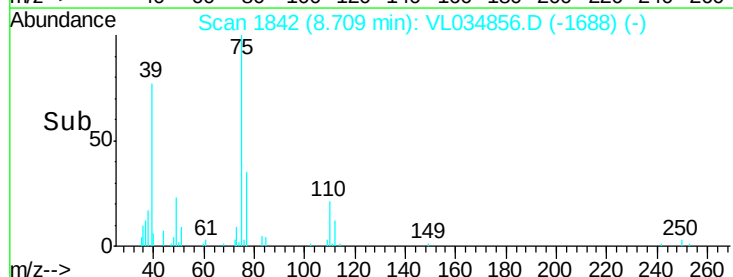
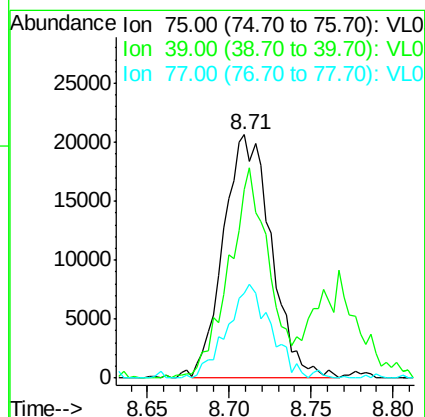
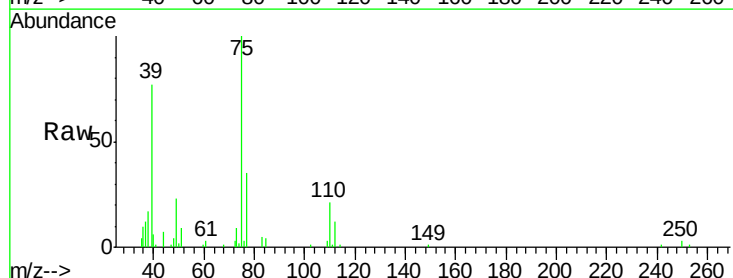
Tgt Ion: 75 Resp: 41915

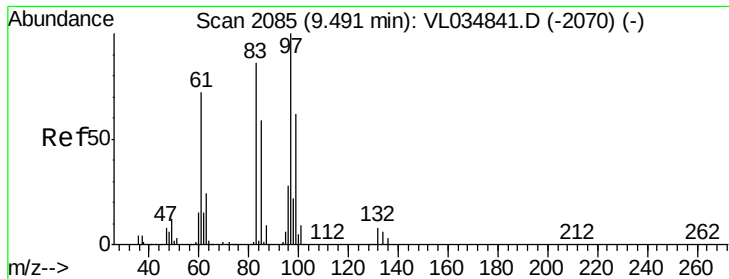
Ion Ratio Lower Upper

75 100

39 77.4 55.7 83.5

77 35.0 24.7 37.1





#47

1,1,2-Trichloroethane

Concen: 0.565 ppbv m

RT: 9.49 min Scan# 2084

Delta R.T. -0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion: 97 Resp: 40448

Ion Ratio Lower Upper

97 100

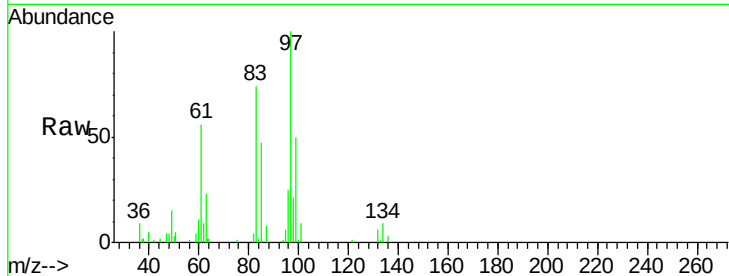
83 73.9 68.6 102.8

85 47.3 46.9 70.3

99 50.4 49.9 74.9

Manual Integrations
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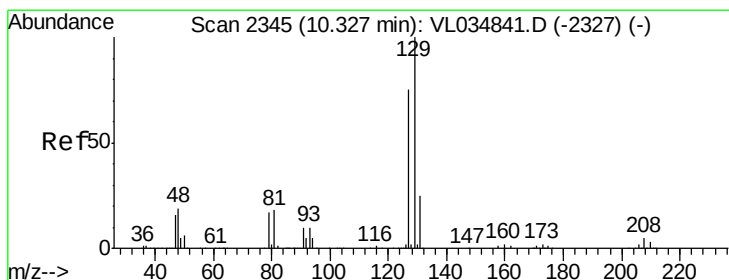
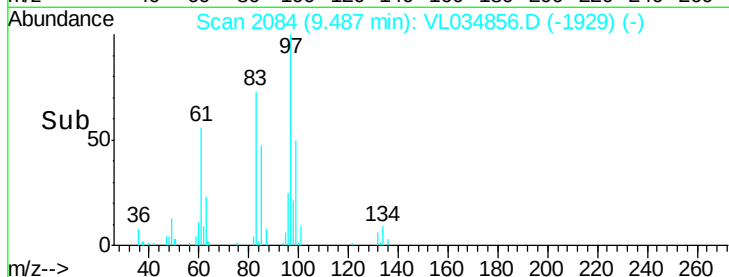
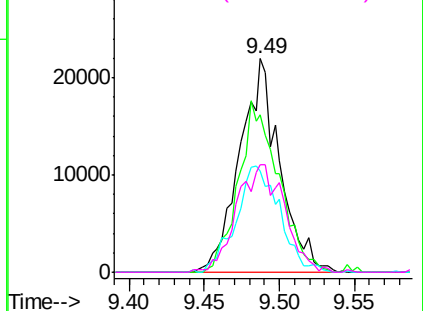


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 0.408 ppbv m

RT: 10.32 min Scan# 2343

Delta R.T. -0.01 min

Lab File: VL034856.D

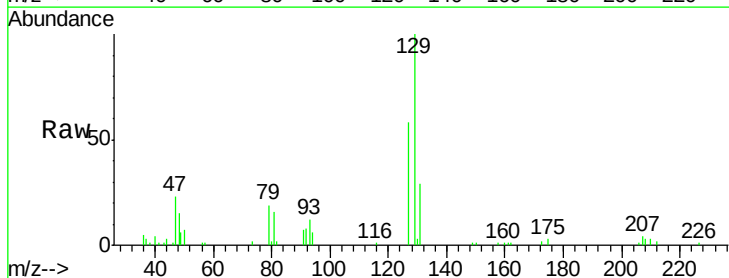
Acq: 10 Mar 2020 2:28

Tgt Ion: 129 Resp: 47244

Ion Ratio Lower Upper

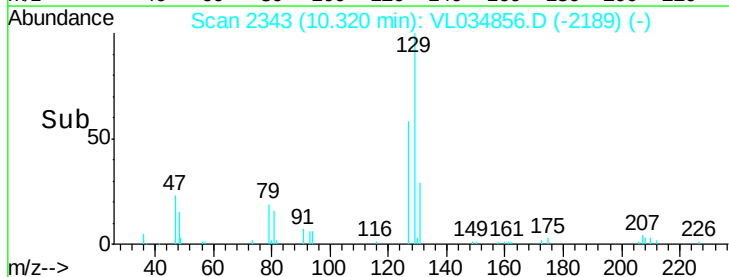
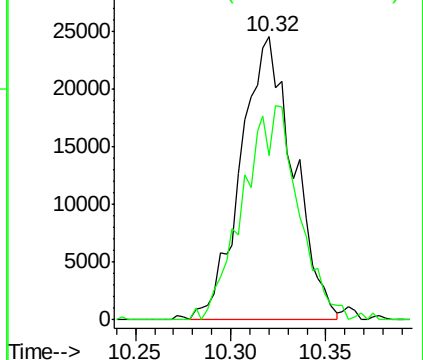
129 100

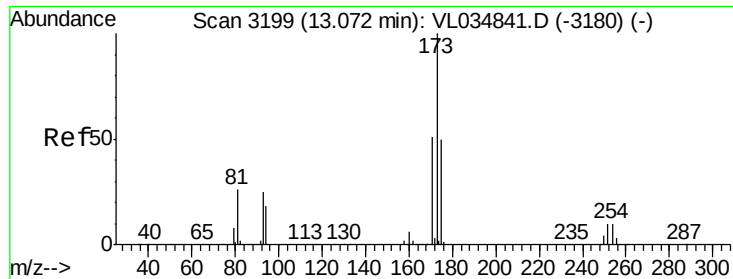
127 80.4 39.6 118.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.400 ppbv

RT: 13.07 min Scan# 3198

Delta R.T. -0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

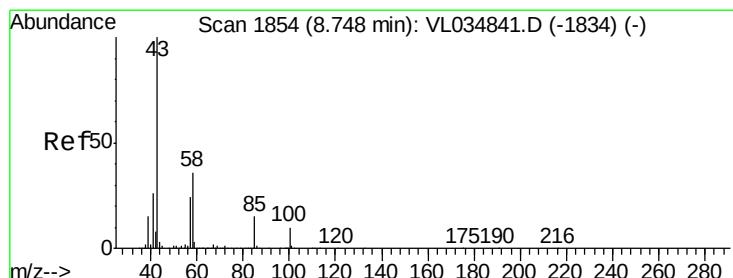
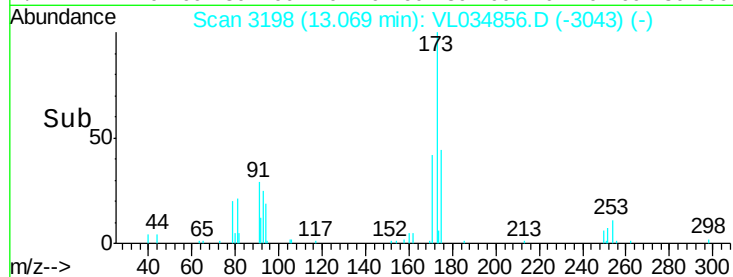
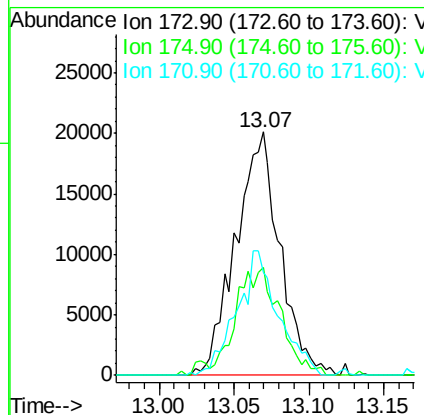
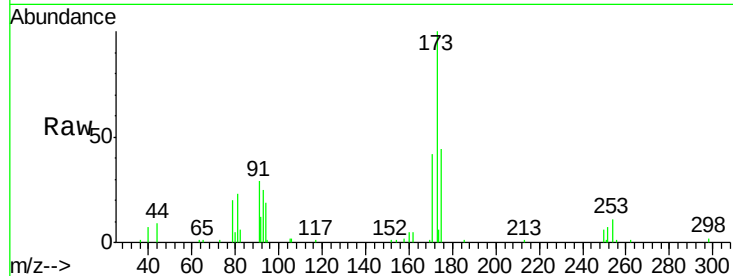
ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion:	173	Resp:	41304
Ion Ratio	Lower	Upper	
173	100		
175	46.2	39.6	59.4
171	48.7	41.0	61.6

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.491 ppbv

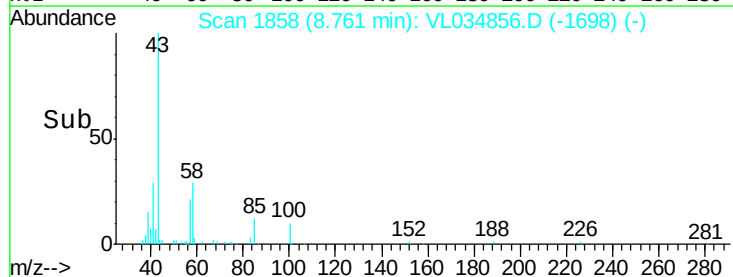
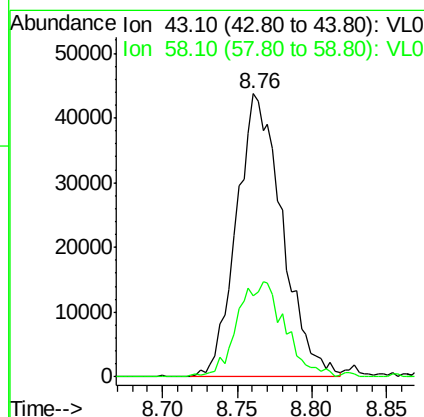
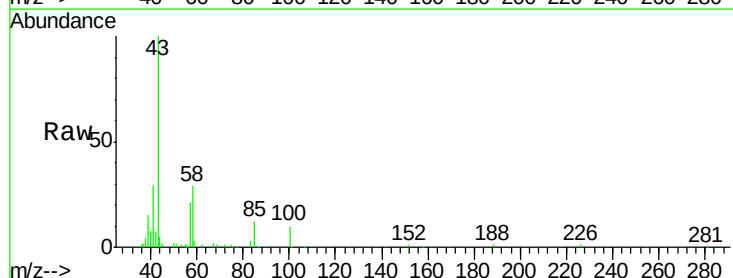
RT: 8.76 min Scan# 1858

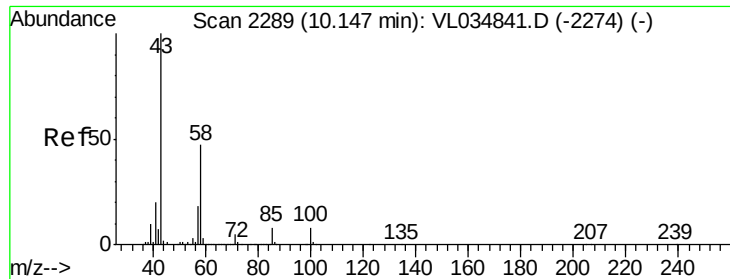
Delta R.T. 0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Tgt Ion:	43	Resp:	92852
Ion Ratio	Lower	Upper	
43	100		
58	35.5	28.6	42.8





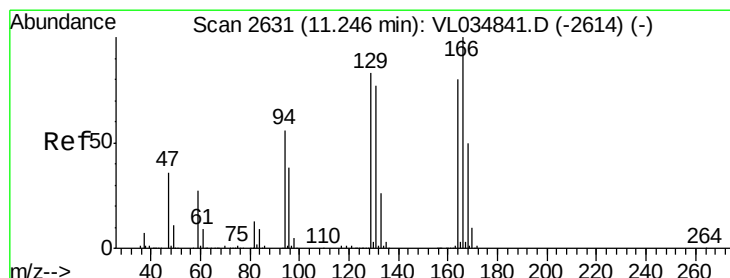
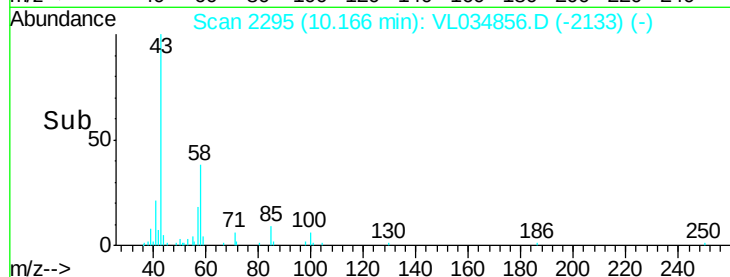
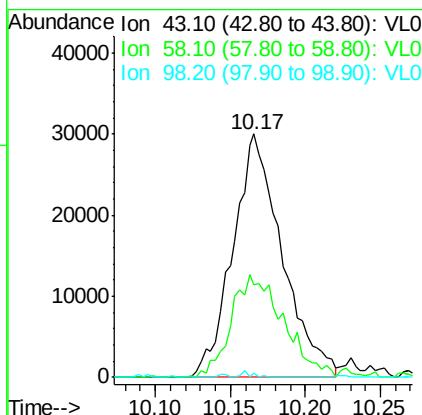
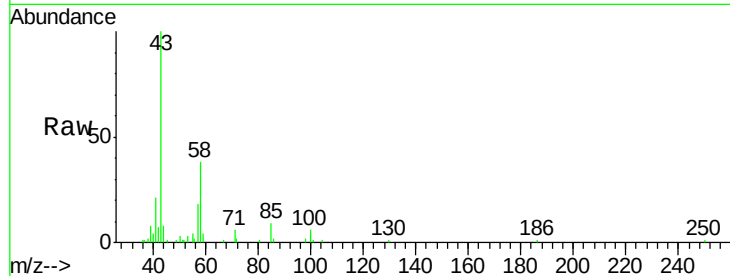
#51
2-Hexanone
Concen: 0.446 ppbv m
RT: 10.17 min Scan# 2295
Delta R.T. 0.02 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.6	58.0#
98	0.2	0.1	0.1#

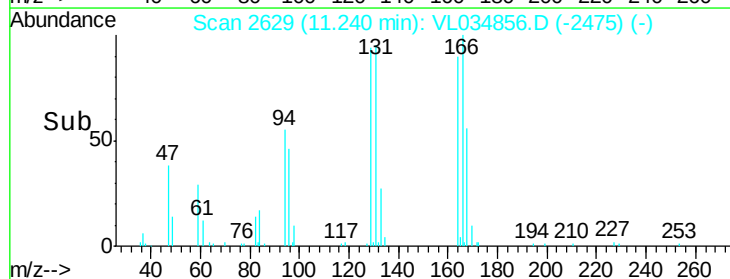
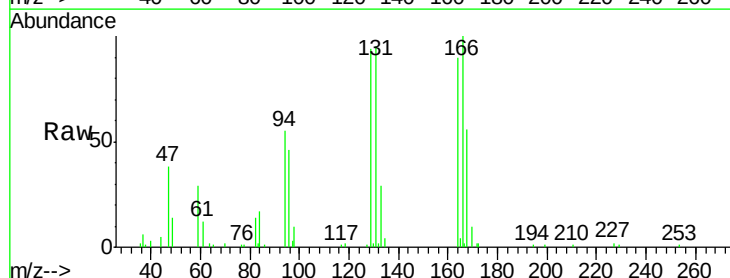
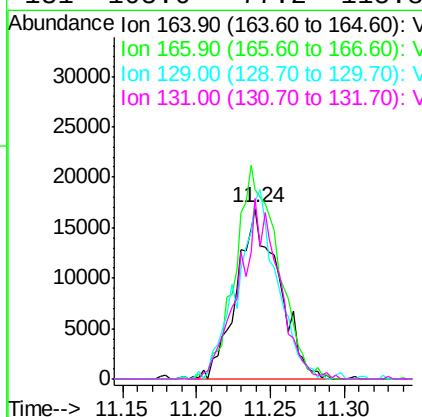
Manual Integrations
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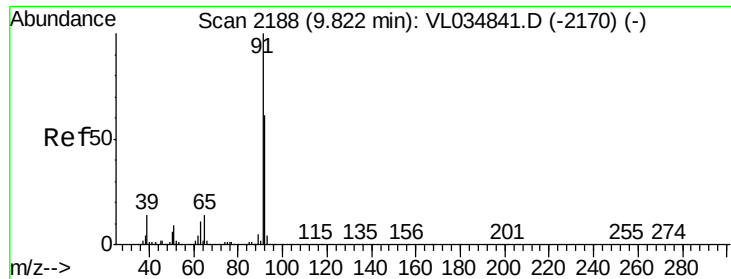
MMDadoda
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#52
Tetrachloroethene
Concen: 0.483 ppbv m
RT: 11.24 min Scan# 2629
Delta R.T. -0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
164	100		
166	110.8	100.0	150.0
129	104.7	83.1	124.7
131	105.6	77.2	115.8





#53

Toluene

Concen: 0.433 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion: 91 Resp: 88011

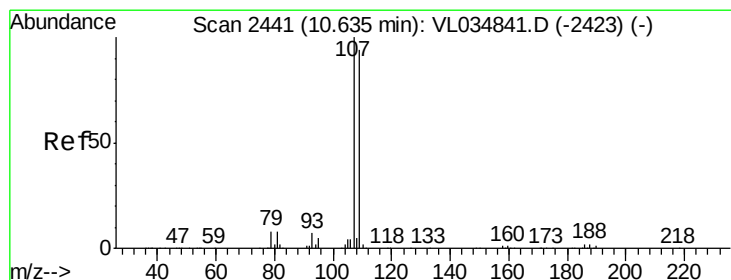
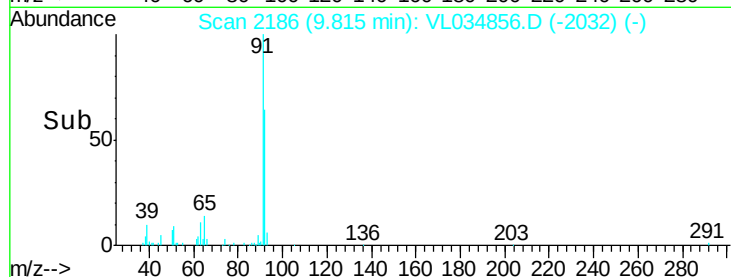
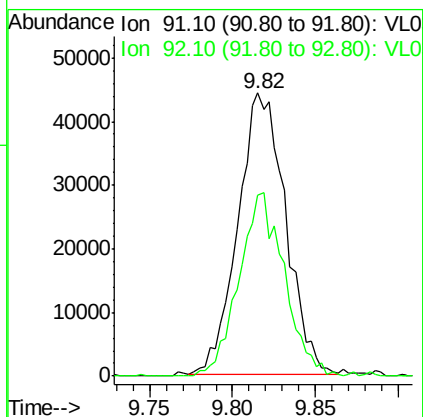
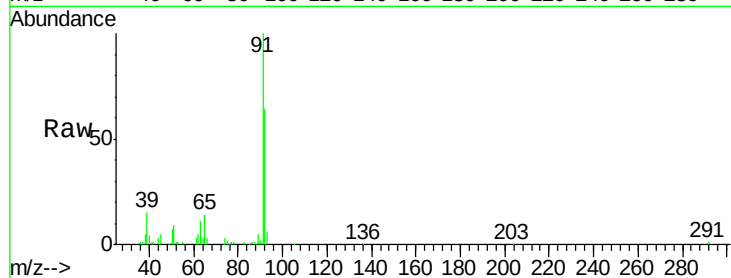
Ion Ratio Lower Upper

91 100

92 62.3 48.6 72.8

Manual Integrations
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#54

1,2-Dibromoethane

Concen: 0.497 ppbv

RT: 10.63 min Scan# 2439

Delta R.T. -0.01 min

Lab File: VL034856.D

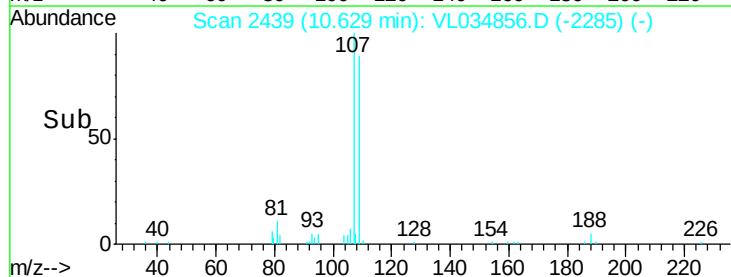
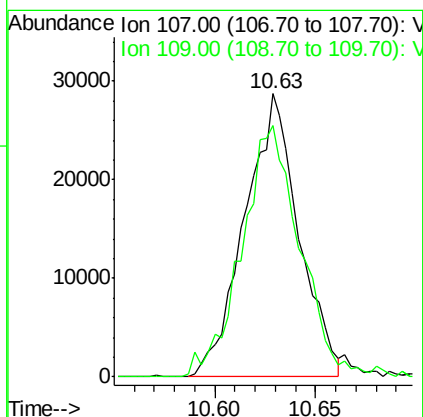
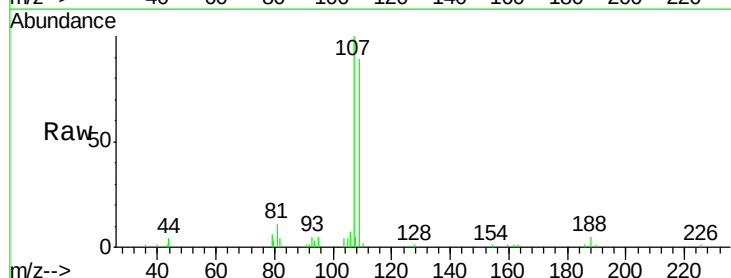
Acq: 10 Mar 2020 2:28

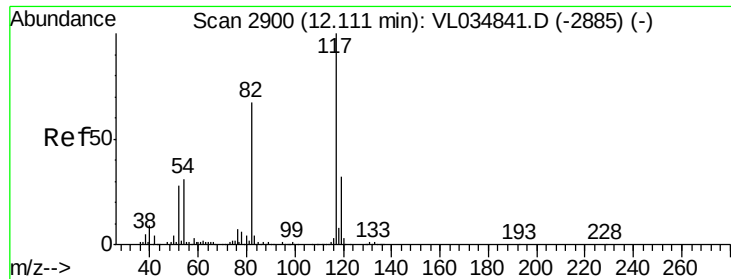
Tgt Ion: 107 Resp: 53539

Ion Ratio Lower Upper

107 100

109 87.9 74.9 112.3





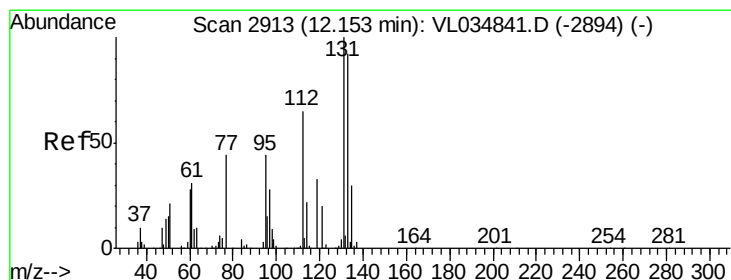
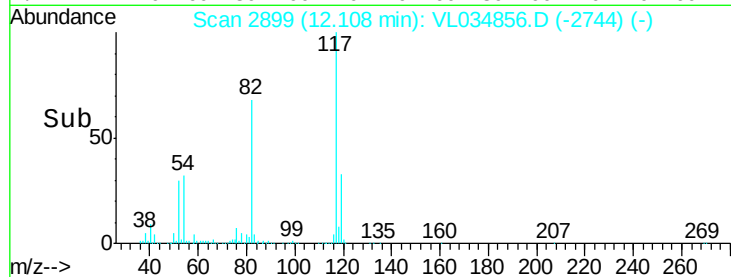
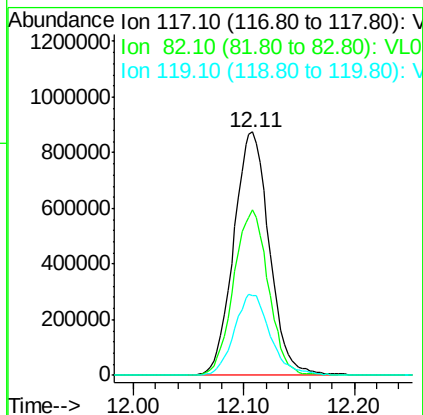
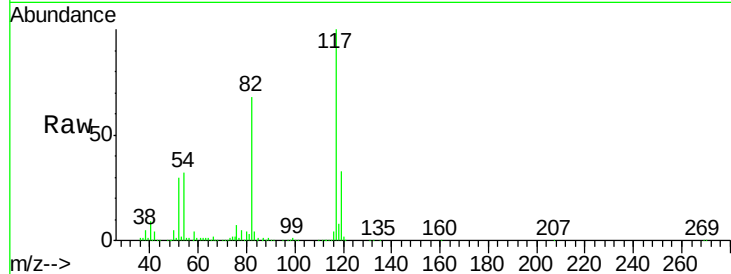
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2899
Delta R.T. -0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
117	100		
82	66.6	51.1	76.7
119	33.7	27.3	40.9

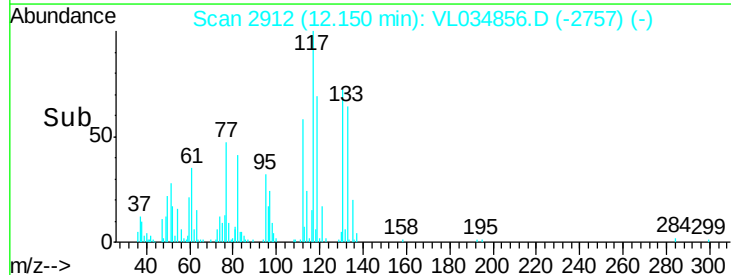
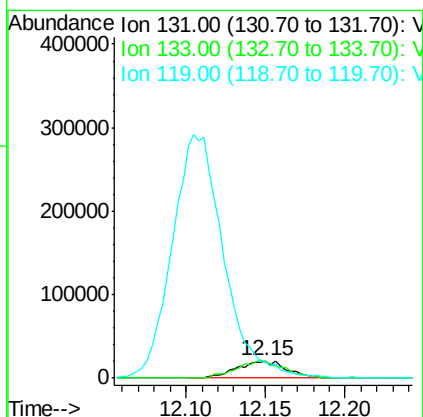
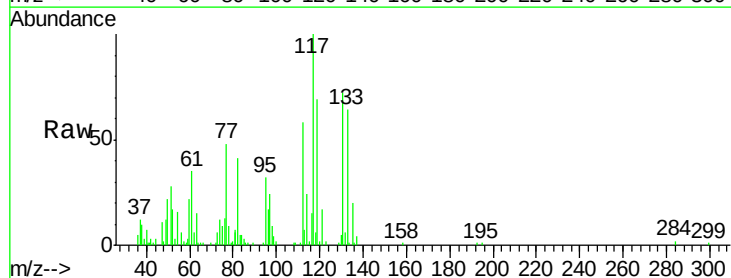
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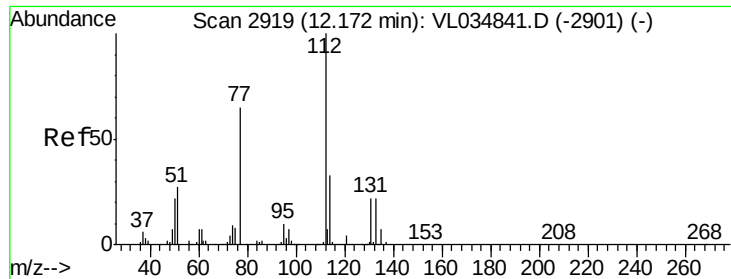
MMDadoda
3/11/2020 3:26:16 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.509 ppbv m
RT: 12.15 min Scan# 2912
Delta R.T. -0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
131	100		
133	0.0	76.0	114.0#
119	0.0	47.8	71.8#





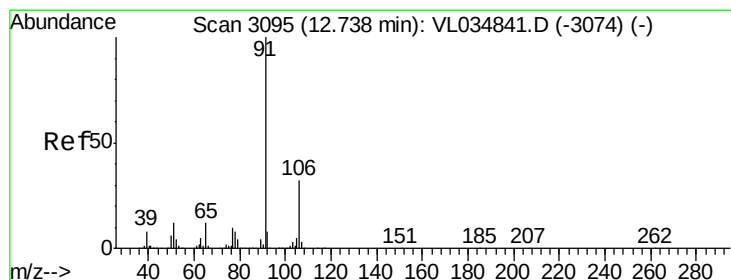
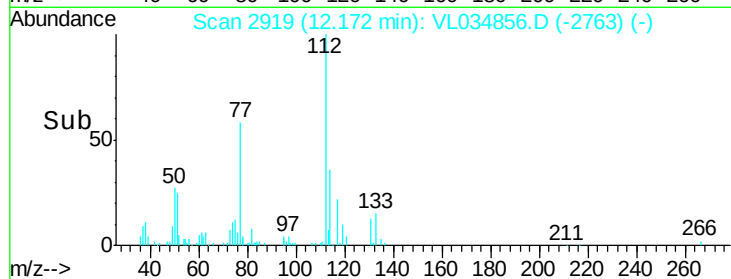
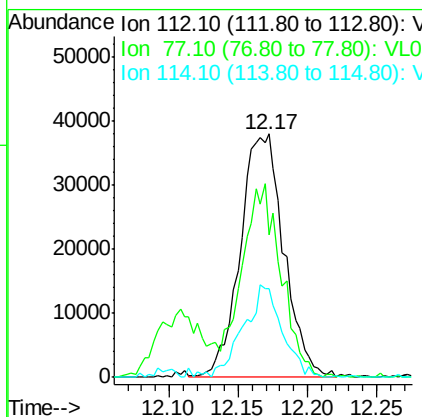
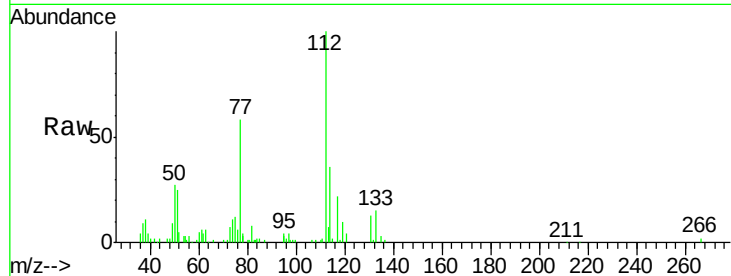
#57
Chlorobenzene
Concen: 0.546 ppbv m
RT: 12.17 min Scan# 2919
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
112	100		
77	58.4	53.0	79.6
114	36.2	29.5	36.1#

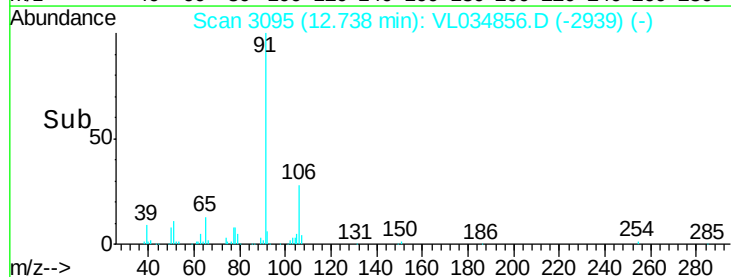
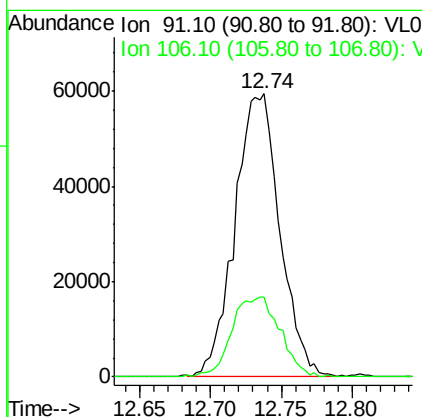
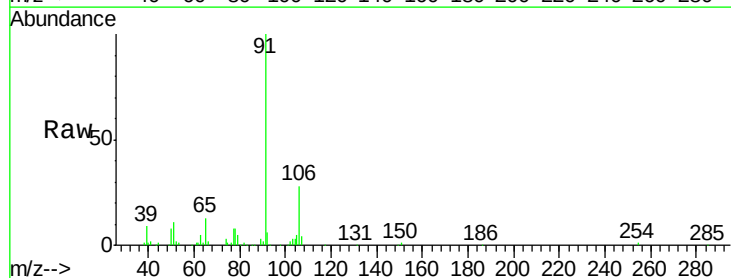
Manual Integrations
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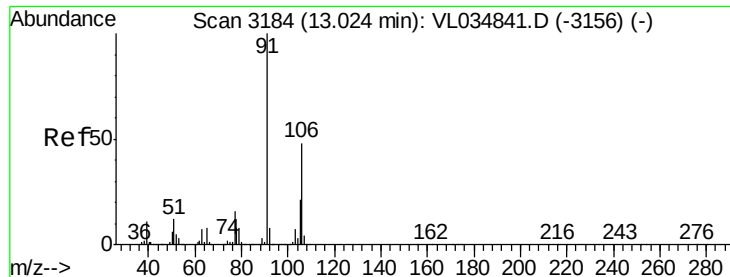
MMDadoda
3/11/2020 3:26:16 PM



#58
Ethyl Benzene
Concen: 0.497 ppbv m
RT: 12.74 min Scan# 3095
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.4	25.8	38.6





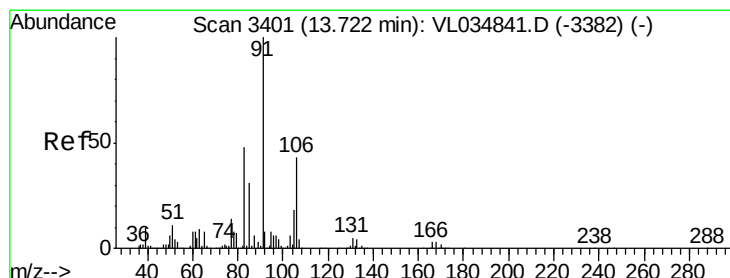
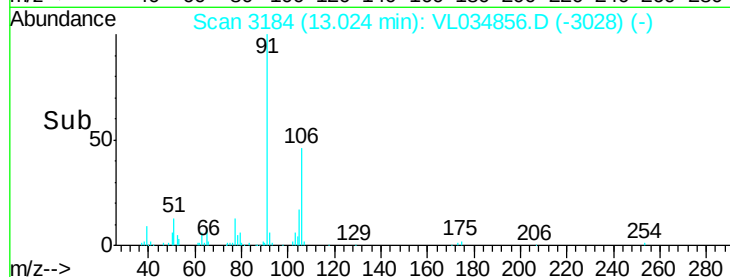
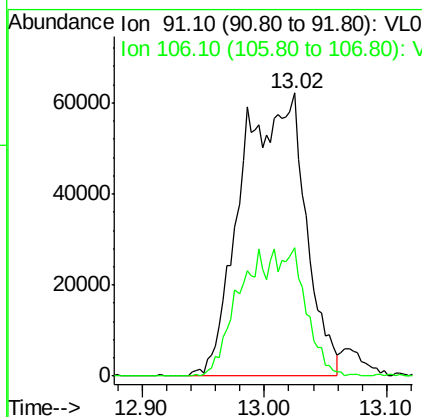
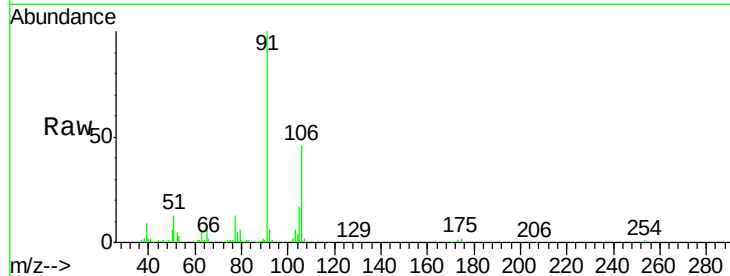
#59
m/p-Xylene
Concen: 1.011 ppbv m
RT: 13.02 min Scan# 3184
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion: 91 Resp: 224111
Ion Ratio Lower Upper
91 100
106 44.7 37.1 55.7

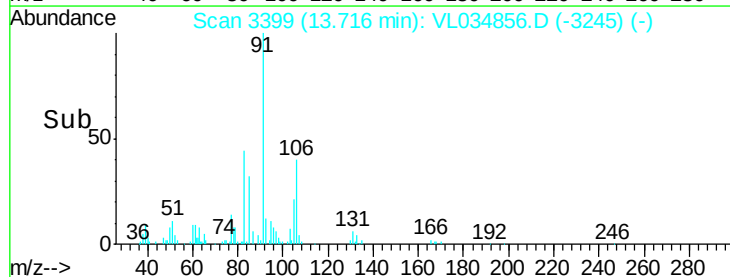
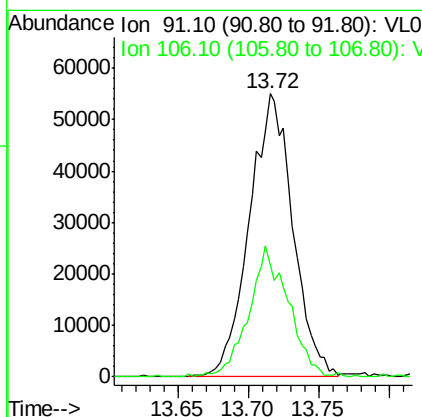
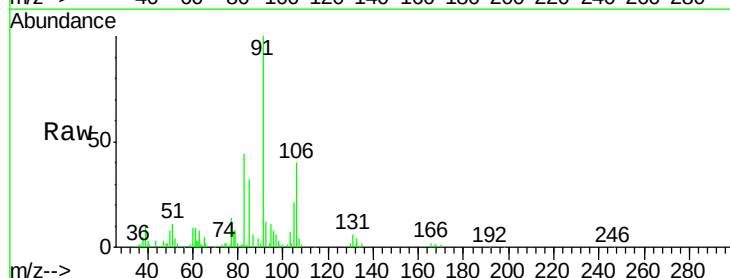
Manual Integrations
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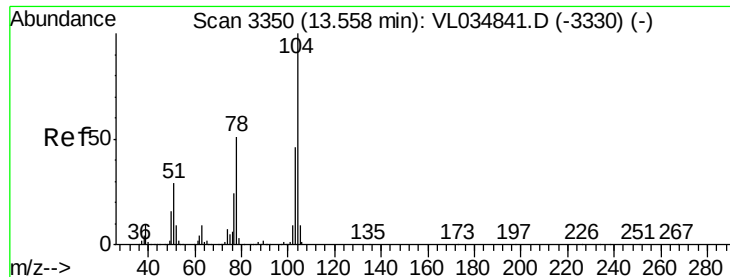
MMDadoda
3/11/2020 3:26:16 PM



#60
o-Xylene
Concen: 0.546 ppbv
RT: 13.72 min Scan# 3399
Delta R.T. -0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion: 91 Resp: 118319
Ion Ratio Lower Upper
91 100
106 42.1 22.5 67.5





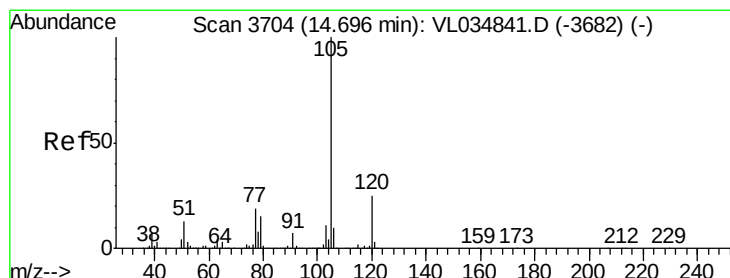
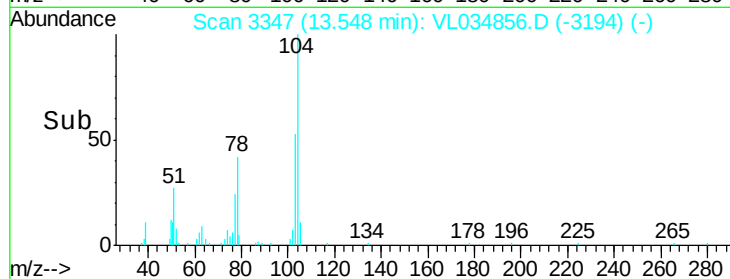
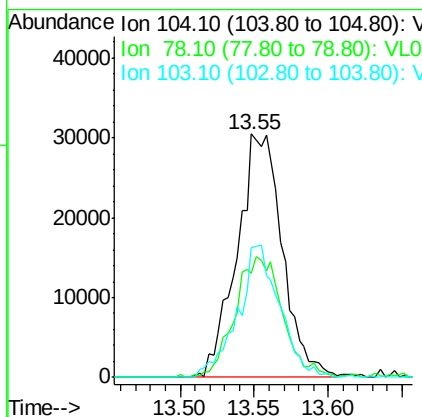
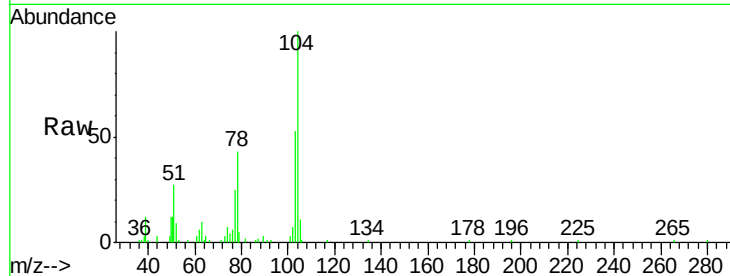
#61
Stvrene
Concen: 0.426 ppbv m
RT: 13.55 min Scan# 3347
Delta R.T. -0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
104	100		
78	52.1	41.8	62.6
103	50.3	37.8	56.6

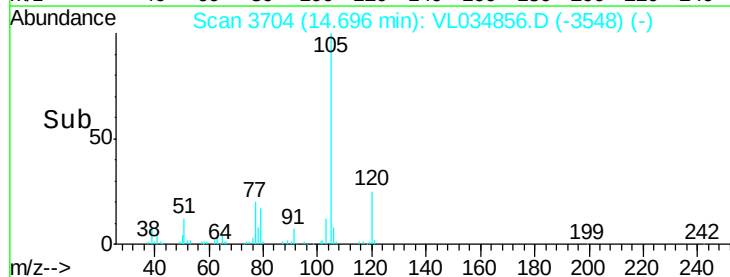
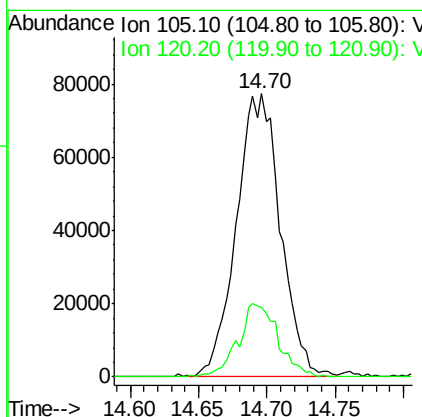
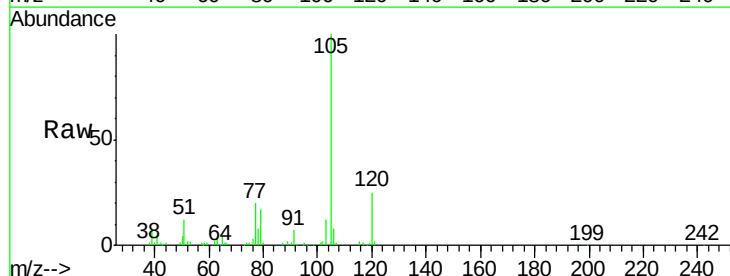
Manual Integrations
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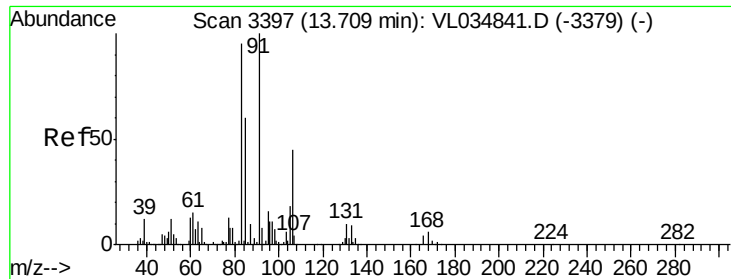
MMDadoda
3/11/2020 3:26:16 PM



#62
Isopropylbenzene
Concen: 0.529 ppbv m
RT: 14.70 min Scan# 3704
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.6	21.0	31.4





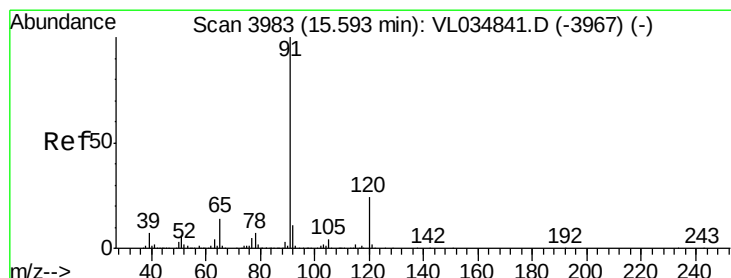
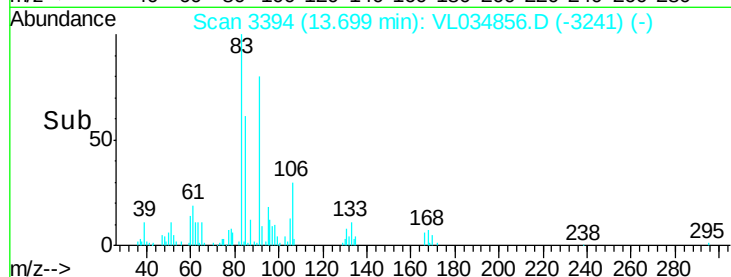
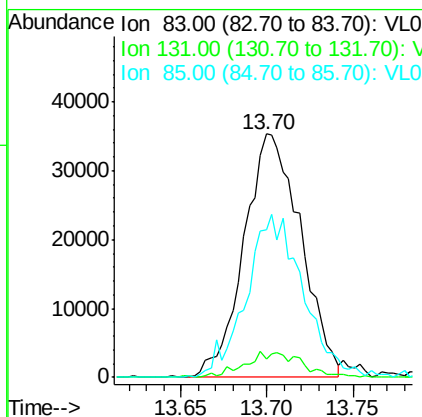
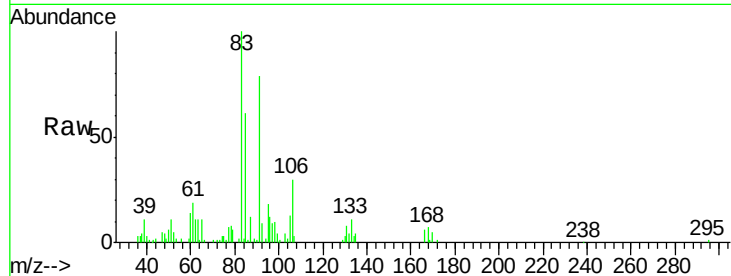
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.550 ppbv
 RT: 13.70 min Scan# 3394
 Delta R.T. -0.01 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Tot Ion	83	Resp	80907
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.0	14.9
85	67.5	32.4	97.2

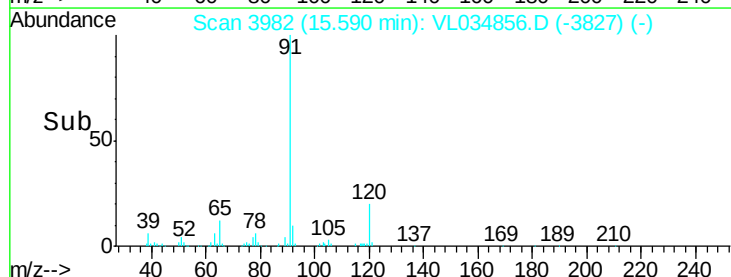
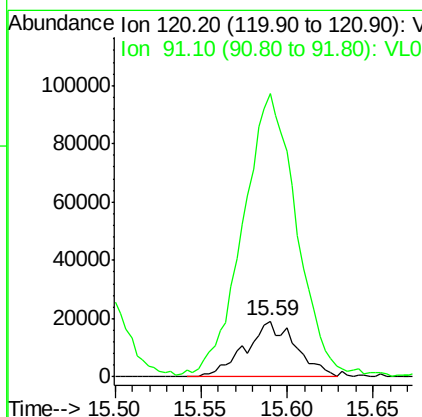
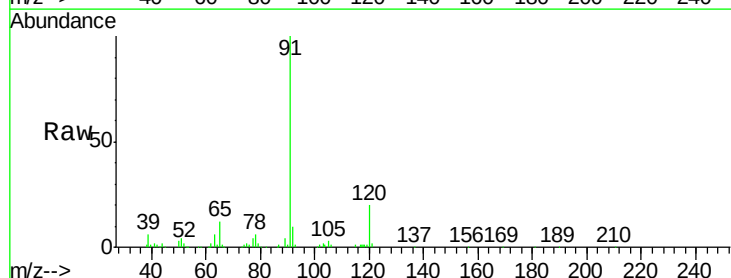
Manual Integrations
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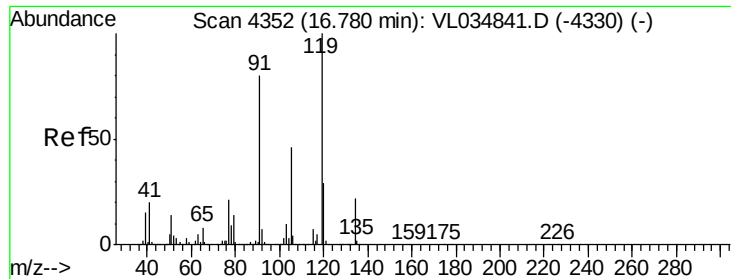
MMDadoda
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#64
 n-propylbenzene
 Concen: 0.453 ppbv m
 RT: 15.59 min Scan# 3982
 Delta R.T. -0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	120	Resp	38579
Ion Ratio	Lower	Upper	
120	100		
91	546.4	360.9	541.3#





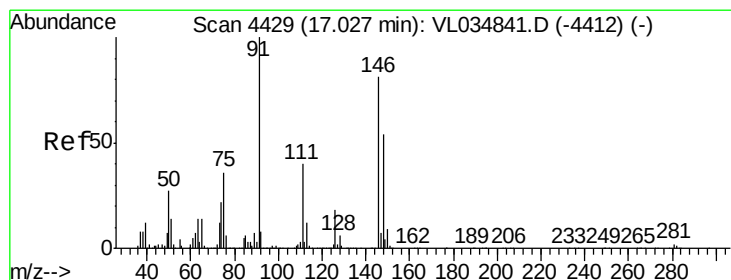
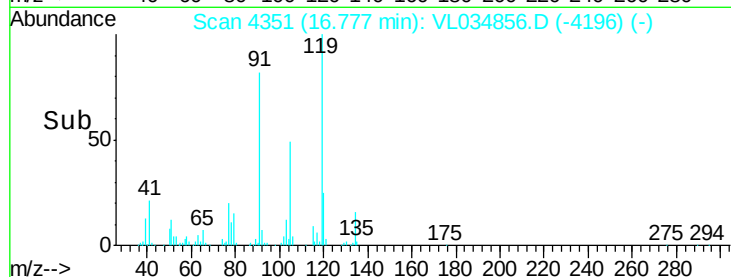
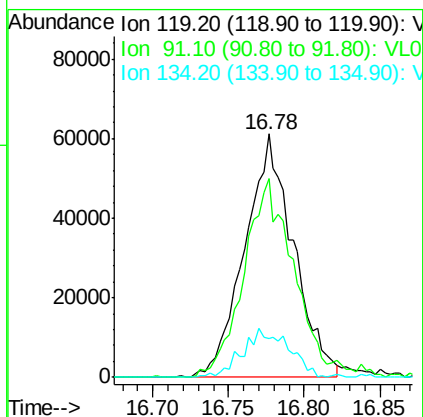
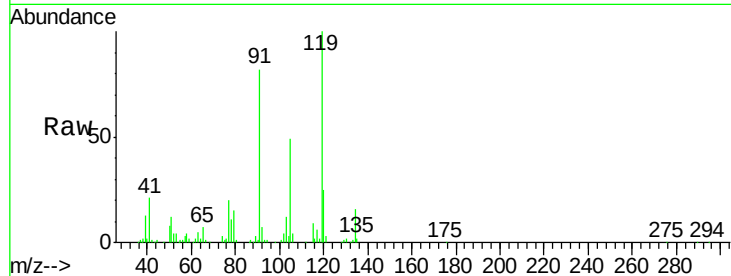
#65
 tert-Butylbenzene
 Concen: 0.476 ppbv m
 RT: 16.78 min Scan# 4351
 Delta R.T. -0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	136094		
91	86.4	64.9	97.3	
134	19.1	15.9	23.9	

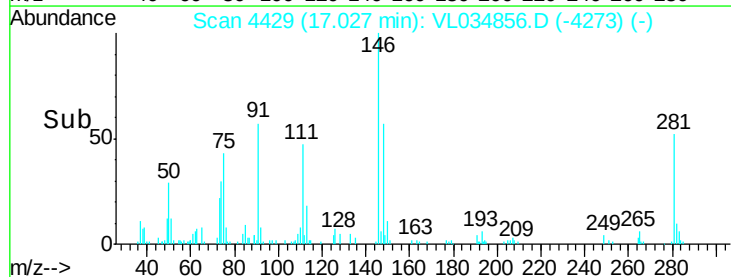
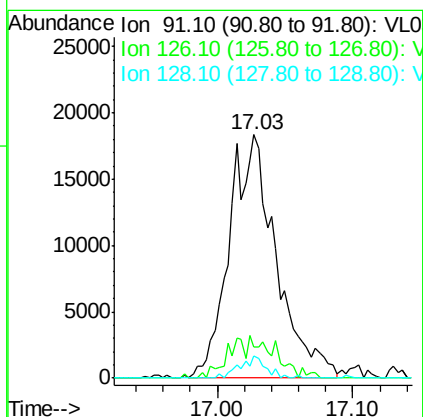
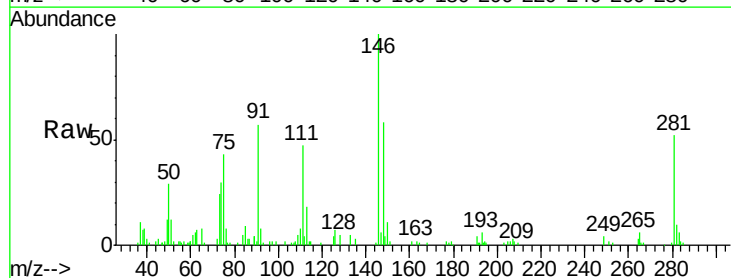
Manual Integrations
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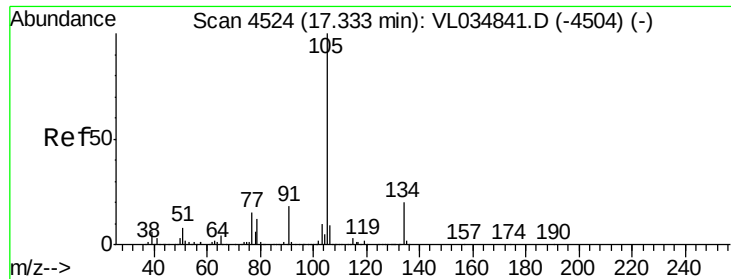
MMDadoda
 3/11/2020 3:26:16 PM



#66
 Benzyl Chloride
 Concen: 0.369 ppbv m
 RT: 17.03 min Scan# 4429
 Delta R.T. 0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	44022		
126	16.9	14.7	22.1	
128	5.0	4.7	7.1	





#67

sec-Butylbenzene

Concen: 0.487 ppbv

RT: 17.33 min Scan# 4522

Delta R.T. -0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion: 105 Resp: 193437

Ion Ratio Lower Upper

105 100

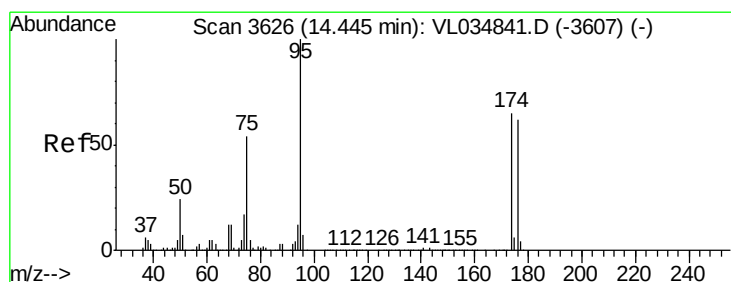
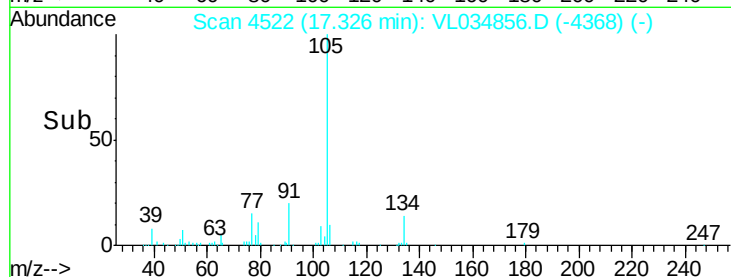
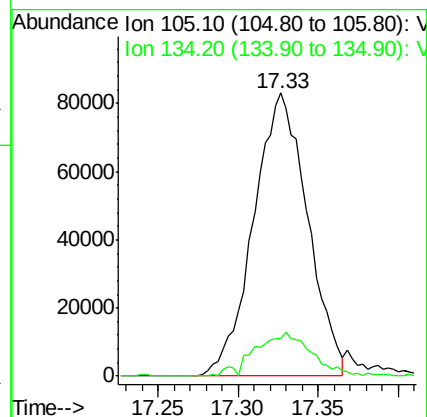
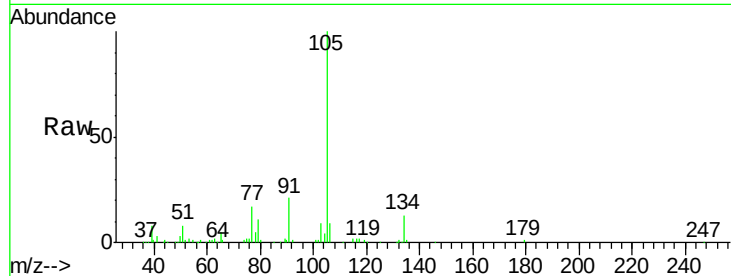
134 16.3 15.0 22.6

Manual Integrations

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.421 ppbv

RT: 14.44 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

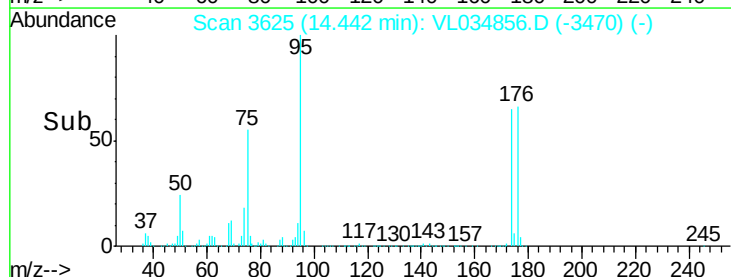
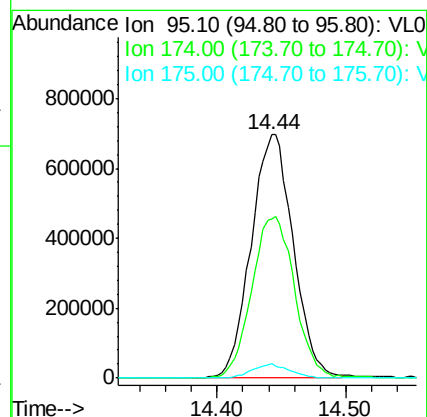
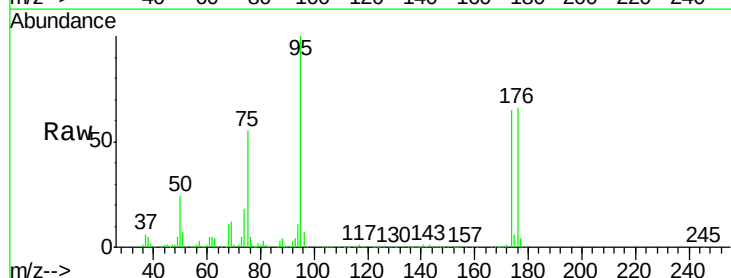
Tgt Ion: 95 Resp: 1588561

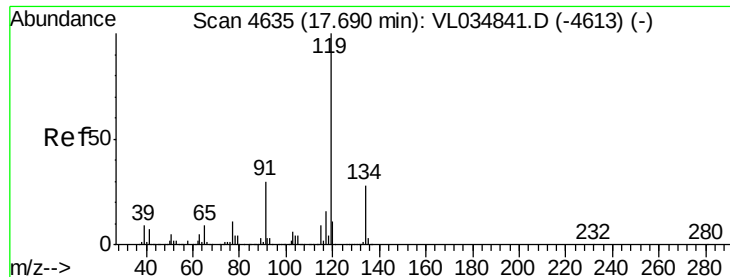
Ion Ratio Lower Upper

95 100

174 67.4 55.2 82.8

175 5.2 4.3 6.5





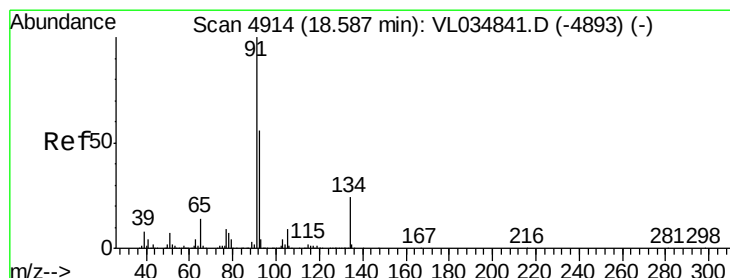
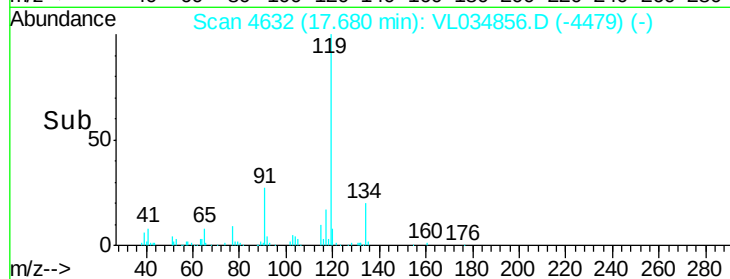
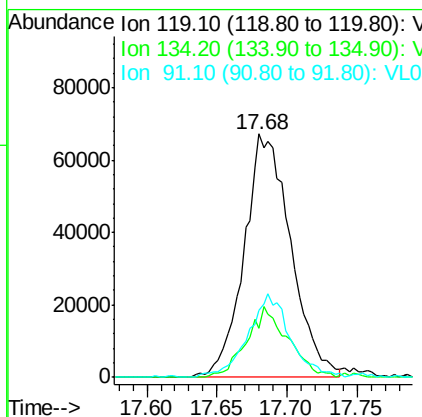
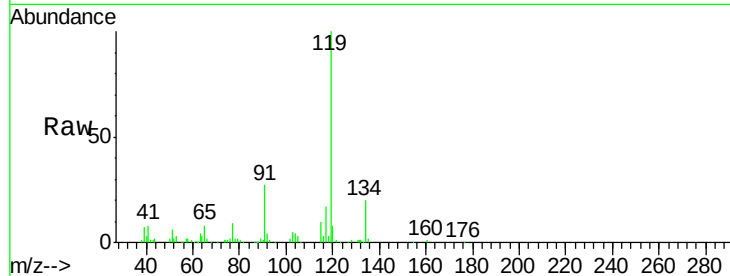
#69
p-Isopropyltoluene
Concen: 0.469 ppbv m
RT: 17.68 min Scan# 4632
Delta R.T. -0.01 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	155906		
134	26.5		20.6	30.8
91	31.0		23.4	35.2

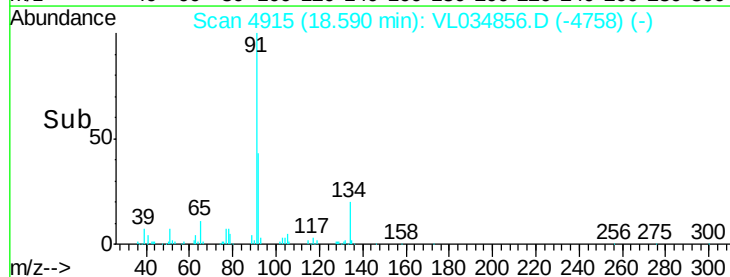
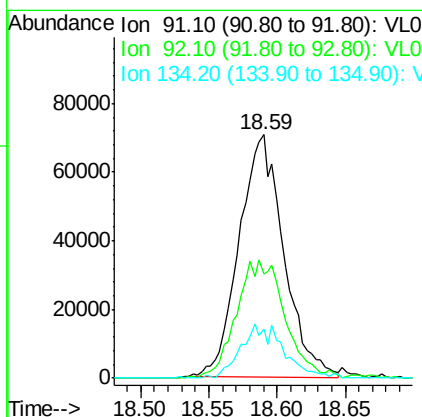
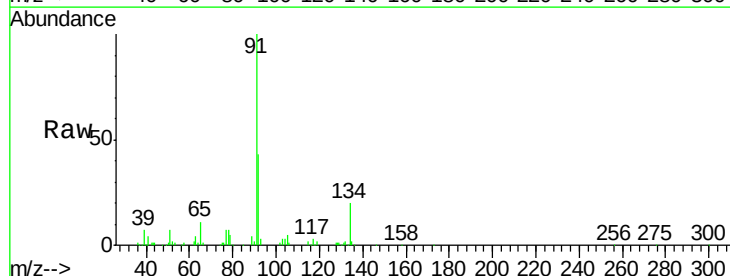
Manual Integrations
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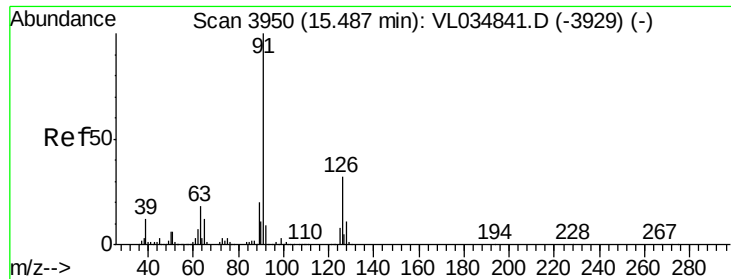
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#70
n-Butylbenzene
Concen: 0.471 ppbv
RT: 18.59 min Scan# 4915
Delta R.T. 0.00 min
Lab File: VL034856.D
Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	159966		
92	53.8		43.8	65.6
134	21.5		19.0	28.4





#71

2-Chlorotoluene

Concen: 0.501 ppbv

RT: 15.48 min Scan# 3948

Delta R.T. -0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion: 91 Resp: 124168

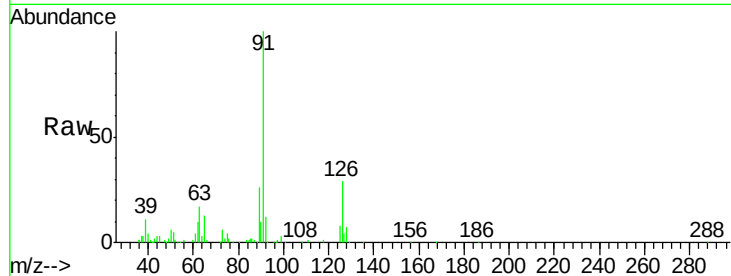
Ion Ratio Lower Upper

91 100

126 30.7 12.3 49.1

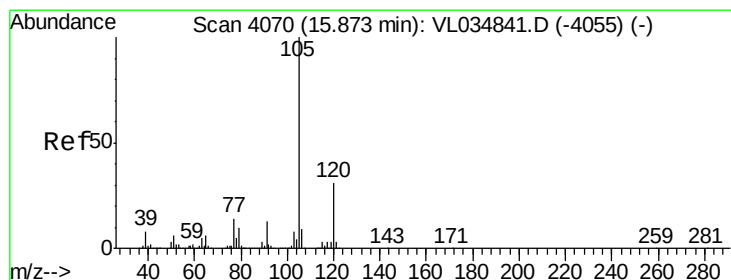
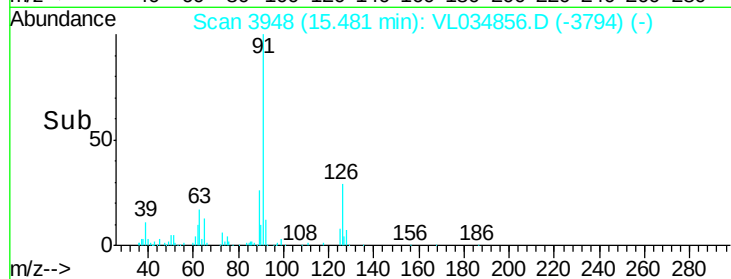
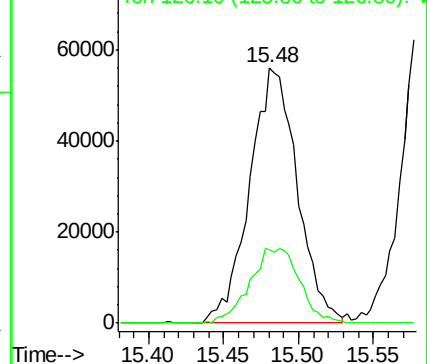
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V



#72

4-Ethyltoluene

Concen: 0.479 ppbv

RT: 15.86 min Scan# 4067

Delta R.T. -0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Tgt Ion:105 Resp: 122487

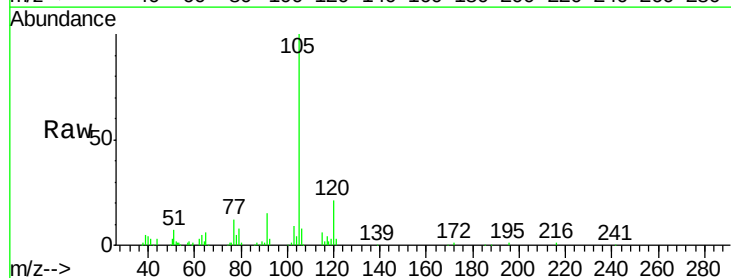
Ion Ratio Lower Upper

105 100

120 28.0 23.7 35.5

91 14.4 10.5 15.7

77 15.0 11.1 16.7

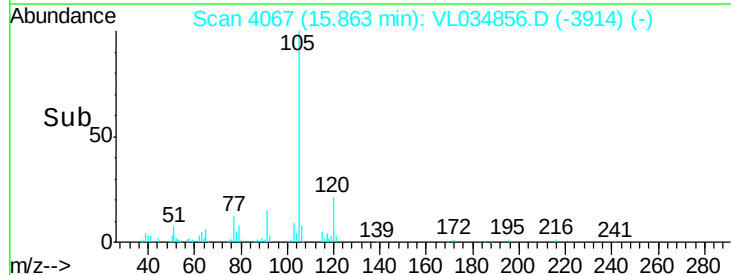
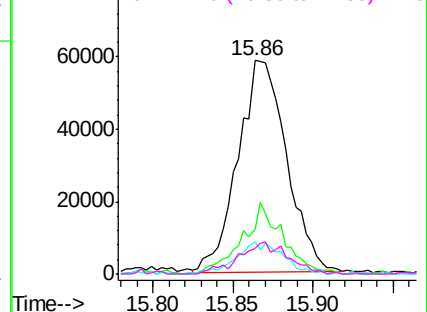


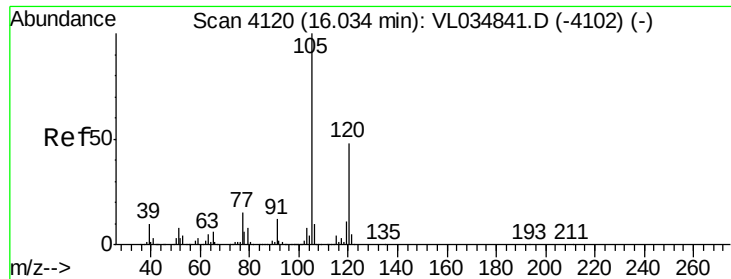
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





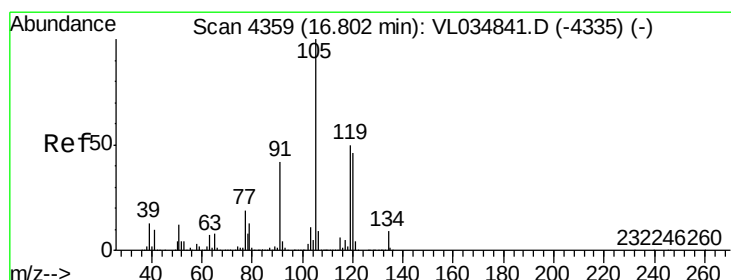
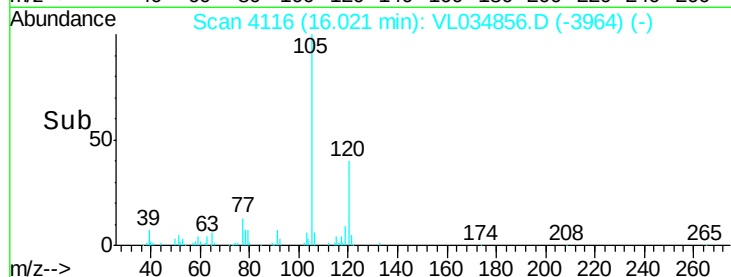
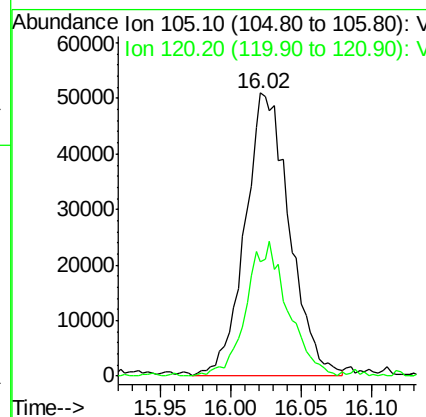
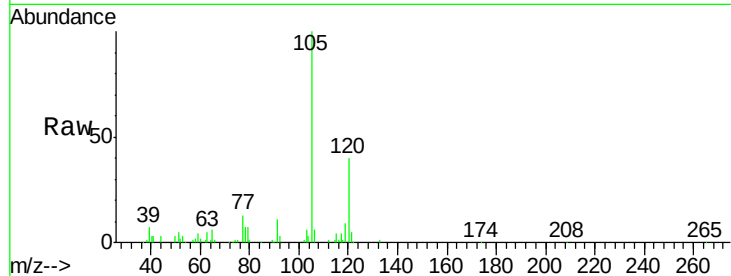
#73
 1,3,5-Trimethylbenzene
 Concen: 0.471 ppbv
 RT: 16.02 min Scan# 4116
 Delta R.T. -0.01 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
105	100		
120	40.3	38.6	58.0

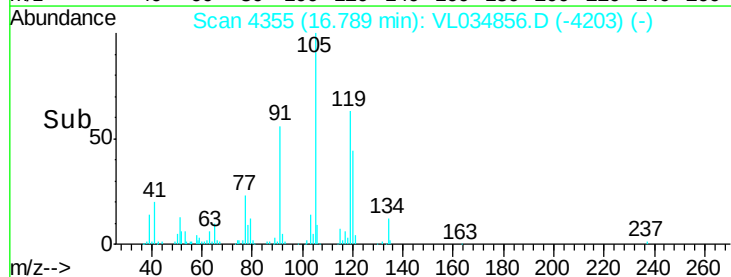
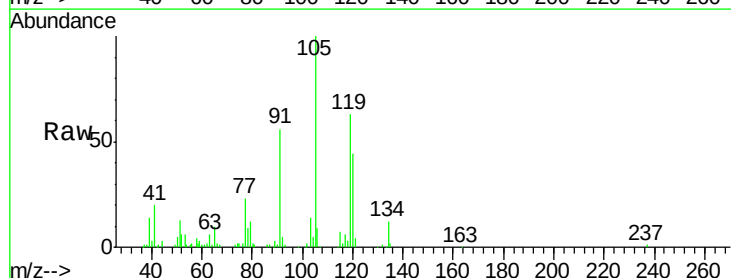
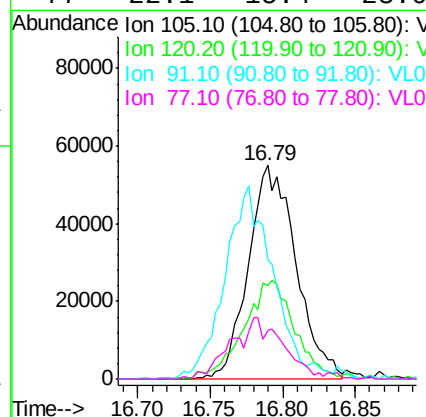
Manual Integrations
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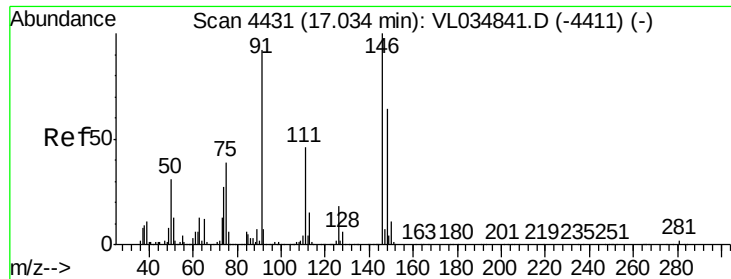
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.510 ppbv
 RT: 16.79 min Scan# 4355
 Delta R.T. -0.01 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.1	37.0	55.4
91	52.1	33.8	50.6
77	22.1	15.4	23.0





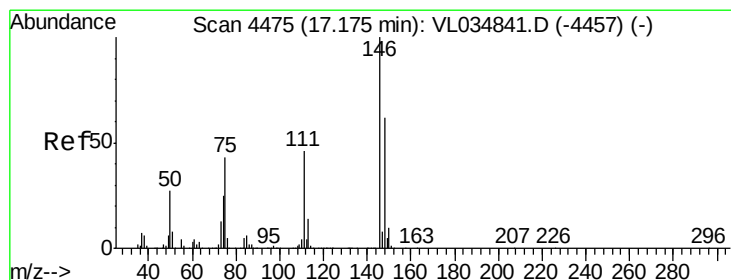
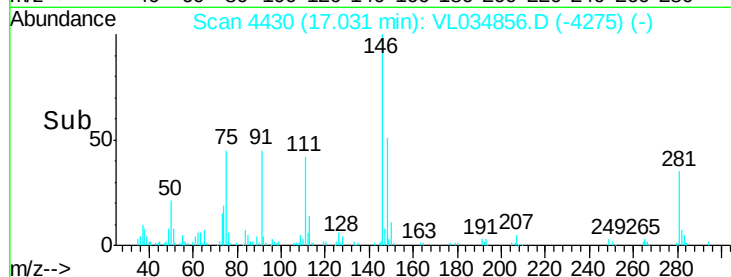
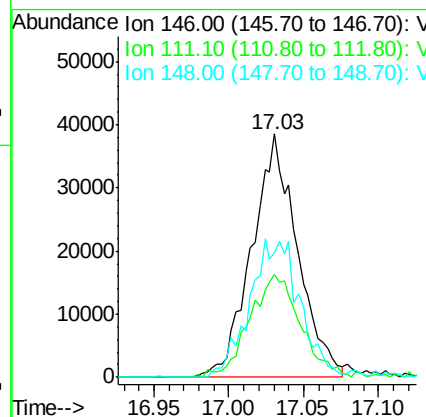
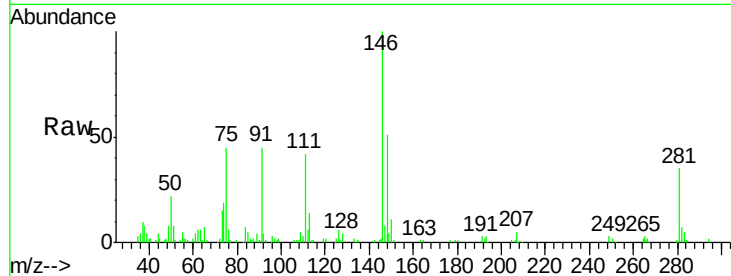
#75
 1,3-Dichlorobenzene
 Concen: 0.549 ppbv
 RT: 17.03 min Scan# 4430
 Delta R.T. -0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.7	23.9	71.7
148	63.7	32.5	97.5

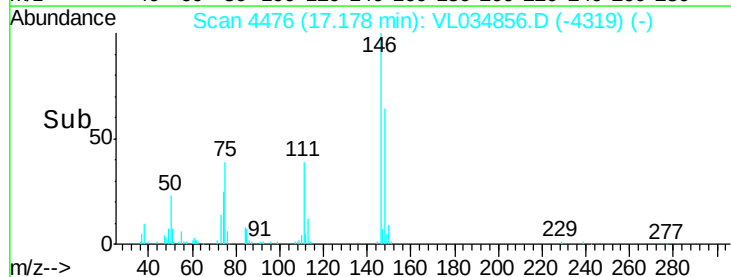
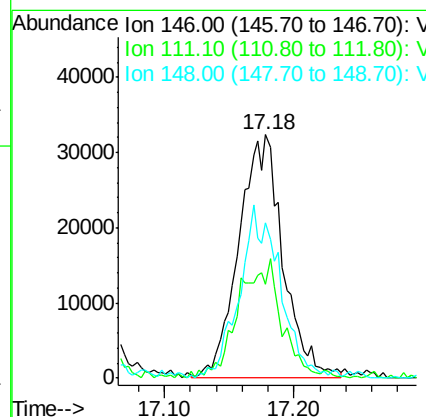
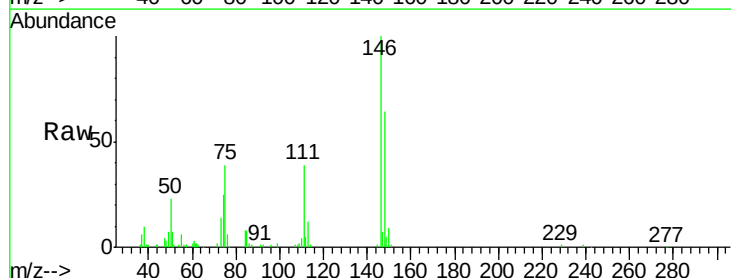
Manual Integrations
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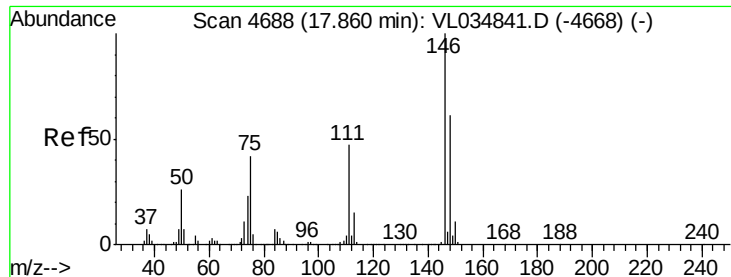
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#76
 1,4-Dichlorobenzene
 Concen: 0.518 ppbv m
 RT: 17.18 min Scan# 4476
 Delta R.T. 0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.4	70.2#
148	66.2	32.3	96.9





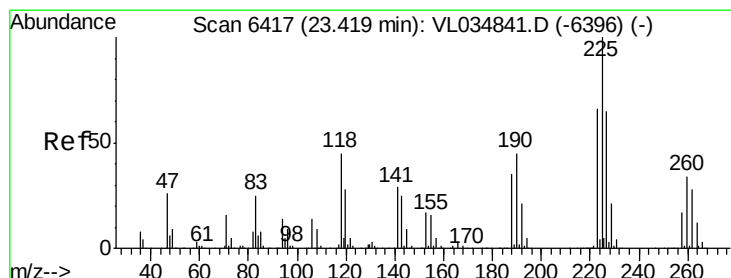
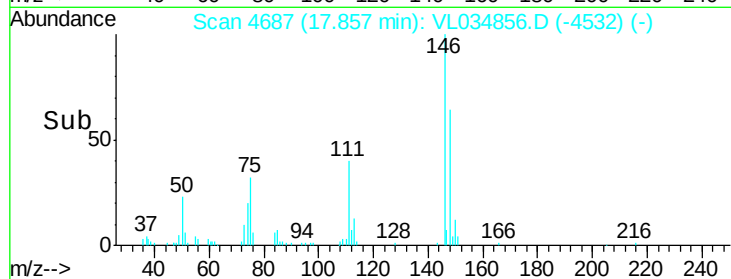
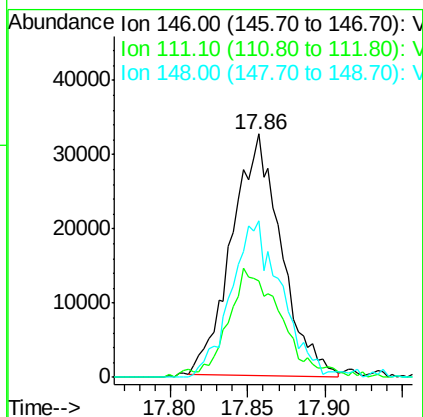
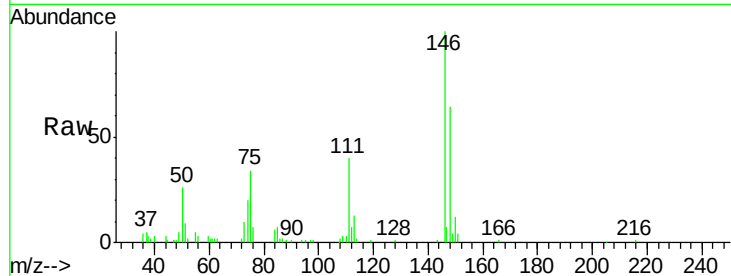
#77
 1,2-Dichlorobenzene
 Concen: 0.500 ppbv
 RT: 17.86 min Scan# 4687
 Delta R.T. -0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.1	23.8	71.4
148	67.6	31.6	94.8

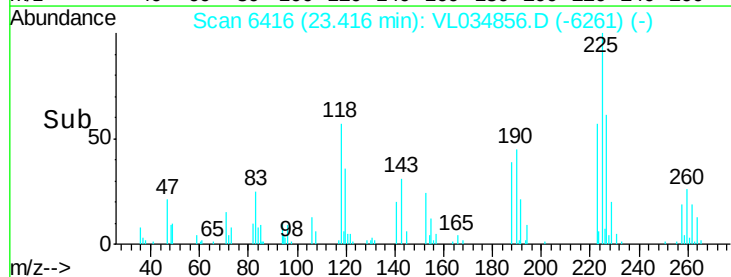
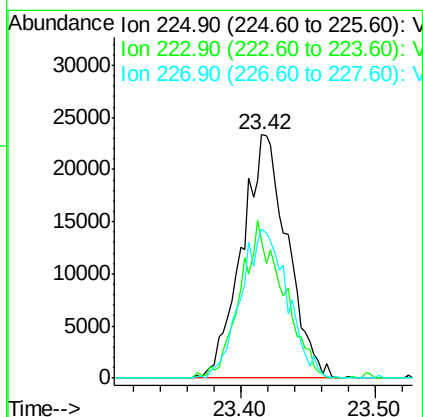
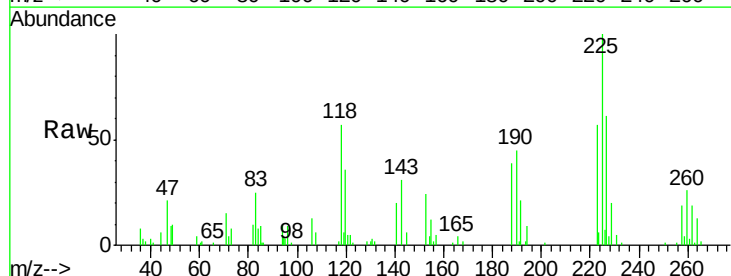
Manual Integrations
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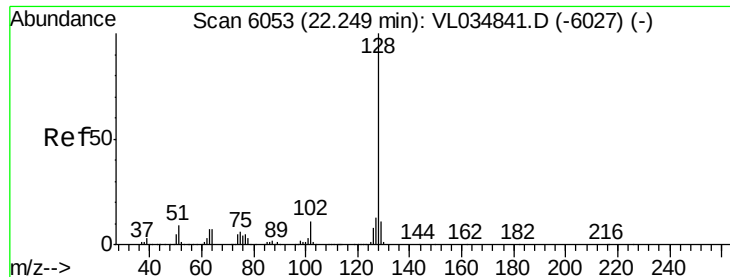
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.455 ppbv m
 RT: 23.42 min Scan# 6416
 Delta R.T. -0.00 min
 Lab File: VL034856.D
 Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	60.9	51.1	76.7
227	62.6	51.8	77.6





#79

Naphthalene

Concen: 0.297 ppbv m

RT: 22.26 min Scan# 6055

Delta R.T. 0.01 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Instrument :

MSVOA_L

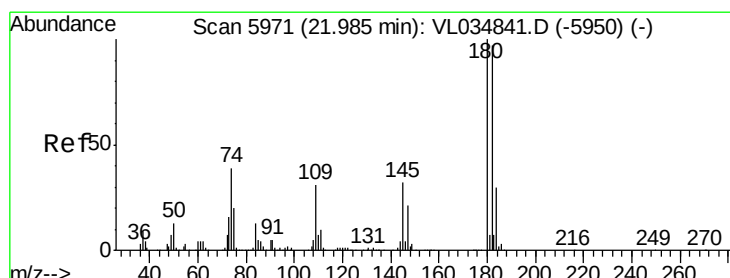
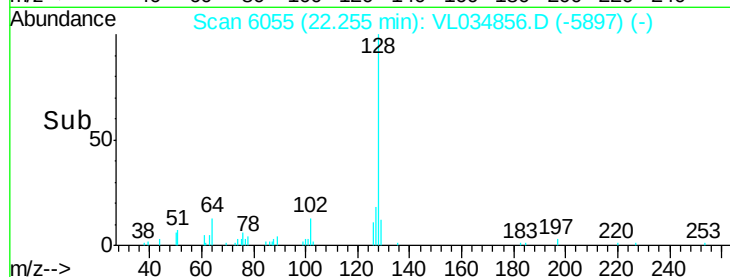
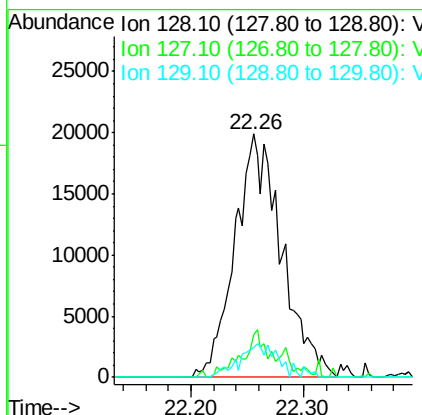
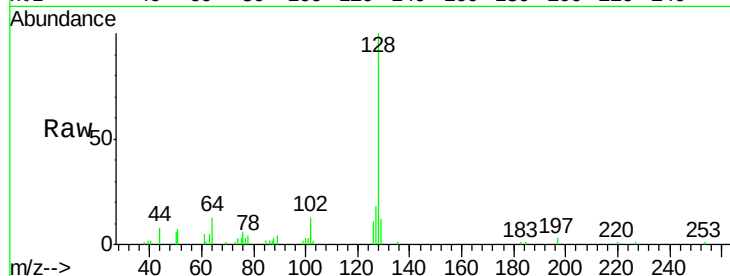
ClientSampleId :

LOQ-AIR-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
128	100		
127	17.6	10.2	15.2#
129	12.0	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
3/11/2020 3:26:16 PM



#81

1,2,4-Trichlorobenzene

Concen: 0.371 ppbv m

RT: 21.99 min Scan# 5971

Delta R.T. 0.00 min

Lab File: VL034856.D

Acq: 10 Mar 2020 2:28

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	76.6	115.0#
184	30.6	25.0	37.4

