

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034311.D
 Acq On : 17 Oct 2019 00:01
 Operator : SY/AP
 Sample : K5111-13 0.4 PPB LOD
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:05:00 PM

Quant Time: Oct 17 14:41:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	1045025	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.23	114	2001991	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2019623	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1785381	10.44	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.04	85	94770	0.526 ppbv	99
3) Chlorodifluoromethane	2.98	51	53707	0.438 ppbv	100
4) Chloromethane	3.14	50	32340	0.446 ppbv	91
5) Vinyl Chloride	3.25	62	28098	0.407 ppbv	90
6) Bromomethane	3.47	94	14992m	0.443 ppbv	
7) Chloroethane	3.56	64	11226m	0.462 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	74827	0.479 ppbv	94
9) Propene	3.00	41	22197	0.409 ppbv	98
10) Heptane	8.19	43	50287m	0.361 ppbv	
11) Trichlorofluoromethane	3.96	101	80448	0.470 ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.50	101	49989	0.446 ppbv	99
13) Ethanol	3.63	45	7118m	0.586 ppbv	
14) Bromoethene	3.75	108	19118m	0.433 ppbv	
15) Acetone	3.87	43	84822	0.567 ppbv	99
16) 1,3-Butadiene	3.33	39	22963	0.378 ppbv	100
17) tert-Butyl alcohol	4.33	59	41868	0.439 ppbv	95
18) 1,1-Dichloroethene	4.30	96	20640	0.421 ppbv	89
19) Isopropyl Alcohol	4.00	45	38937	0.467 ppbv #	90
20) Methylene Chloride	4.36	84	30521m	0.565 ppbv	
21) Allyl Chloride	4.43	41	35026	0.424 ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	21671m	0.443 ppbv	
23) Vinyl Acetate	5.10	43	66744	0.358 ppbv #	93
24) 1,1-Dichloroethane	5.04	63	58675m	0.424 ppbv	
25) Ethyl Acetate	5.72	43	107124	0.425 ppbv	99
26) Hexane	5.72	57	41797	0.389 ppbv #	81
27) Carbon Disulfide	4.57	76	42208m	0.378 ppbv	
28) Methyl tert-Butyl Ether	5.07	73	60672	0.373 ppbv	96
29) Chloroform	5.79	83	77874m	0.458 ppbv	
30) Cyclohexane	7.19	84	30236m	0.382 ppbv	
31) cis-1,2-Dichloroethene	5.58	61	38107	0.349 ppbv	91
32) 1,1,1-Trichloroethane	6.56	97	68087	0.412 ppbv	96
34) 2-Butanone	5.28	43	61155	0.374 ppbv	98
35) Carbon Tetrachloride	7.07	117	68828m	0.395 ppbv	
36) Benzene	6.94	78	70389	0.366 ppbv #	89
37) 1,2-Dichloroethane	6.35	62	62333	0.435 ppbv #	96
38) Trichloroethene	7.90	130	29477m	0.382 ppbv	
39) 1,2-Dichloropropane	7.67	63	31886	0.386 ppbv	96
40) 1,4-Dioxane	7.93	88	14269m	0.491 ppbv	
41) Tetrahydrofuran	6.11	42	27892m	0.307 ppbv	
42) Bromodichloromethane	7.85	83	69947	0.399 ppbv #	84
43) Methyl Methacrylate	8.08	69	26155m	0.329 ppbv	

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	135654m	0.382	ppbv	
45) t-1,3-Dichloropropene	9.35	75	29021m	0.300	ppbv	
46) cis-1,3-Dichloropropene	8.77	75	32200m	0.290	ppbv	
47) 1,1,2-Trichloroethane	9.55	97	33575	0.401	ppbv	87
48) Dibromochloromethane	10.38	129	51561m	0.375	ppbv	
49) Bromoform	13.13	173	43154m	0.354	ppbv	
50) 4-Methyl-2-Pentanone	8.83	43	83577m	0.357	ppbv	
51) 2-Hexanone	10.23	43	64204m	0.334	ppbv	
52) Tetrachloroethene	11.31	164	27602m	0.367	ppbv	
53) Toluene	9.88	91	68618m	0.324	ppbv	
54) 1,2-Dibromoethane	10.69	107	46851m	0.377	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.21	131	40340m	0.433	ppbv	
57) Chlorobenzene	12.23	112	75220m	0.446	ppbv	
58) Ethyl Benzene	12.80	91	105525	0.374	ppbv #	85
59) m/p-Xylene	13.07	91	193727m	0.792	ppbv	
60) o-Xylene	13.78	91	96293m	0.395	ppbv	
61) Styrene	13.62	104	52146m	0.304	ppbv	
62) Isopropylbenzene	14.76	105	127841	0.398	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.76	83	83420m	0.426	ppbv	
64) n-propylbenzene	15.66	120	31951m	0.387	ppbv	
65) tert-Butylbenzene	16.84	119	108457m	0.381	ppbv	
66) Benzyl Chloride	17.09	91	33250m	0.295	ppbv	
67) sec-Butylbenzene	17.39	105	144750	0.361	ppbv	99
69) p-Isopropyltoluene	17.75	119	115192	0.352	ppbv	96
70) n-Butylbenzene	18.65	91	136777m	0.384	ppbv	
71) 2-Chlorotoluene	15.55	91	96752	0.388	ppbv	94
72) 4-Ethyltoluene	15.93	105	95640	0.349	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.09	105	98061	0.361	ppbv	93
74) 1,2,4-Trimethylbenzene	16.86	105	110715	0.391	ppbv	96
75) 1,3-Dichlorobenzene	17.09	146	75025m	0.442	ppbv	
76) 1,4-Dichlorobenzene	17.23	146	70592m	0.425	ppbv	
77) 1,2-Dichlorobenzene	17.92	146	67327m	0.404	ppbv	
78) Hexachloro-1,3-Butadiene	23.48	225	58126m	0.422	ppbv	
79) Naphthalene	22.34	128	54391m	0.263	ppbv	
80) Naphthalene, 2-methyl-	25.07	142	7291	0.122	ppbv	89
81) 1,2,4-Trichlorobenzene	22.06	180	45787m	0.339	ppbv	

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

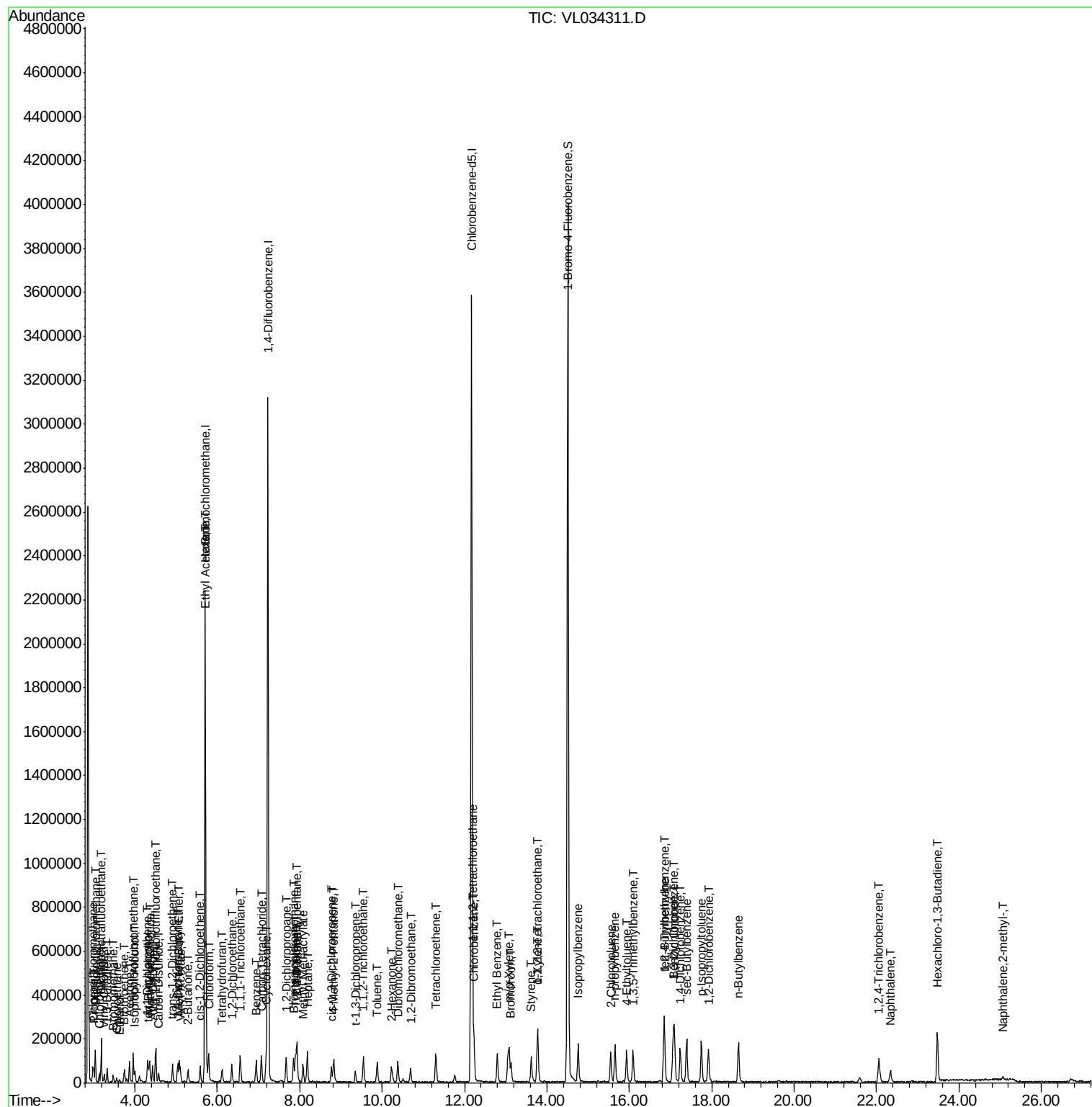
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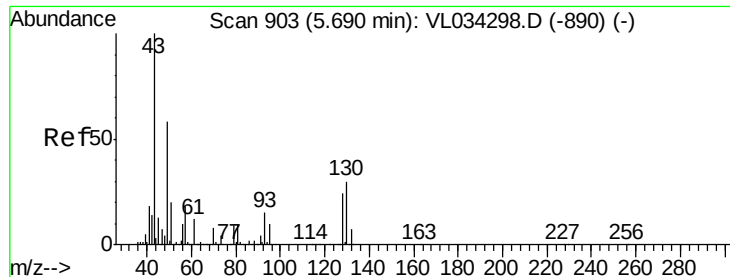
Instrument :
MSVOA_L
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 49 Resp: 1045025

Ion Ratio Lower Upper

49 100

128 42.1 20.6 61.8

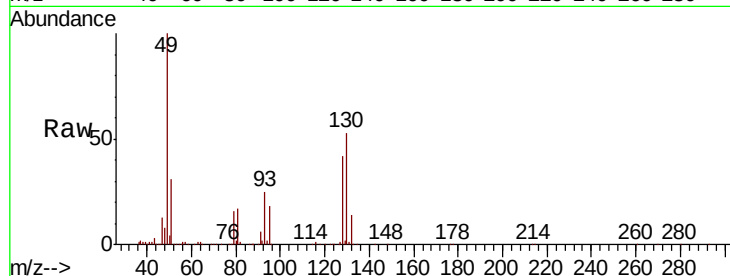
130 53.2 26.2 78.5

Manual Integrations

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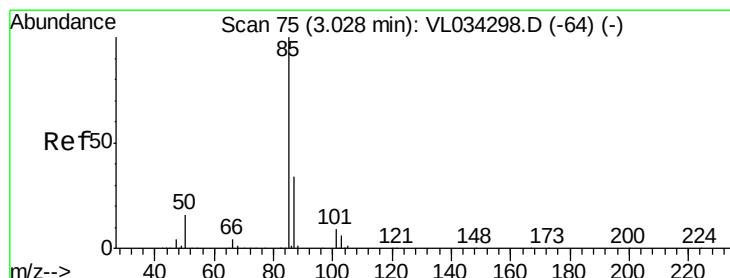
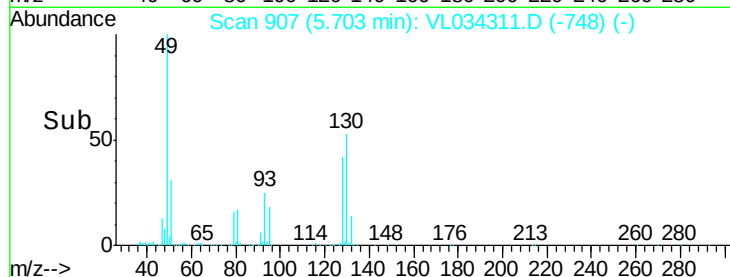
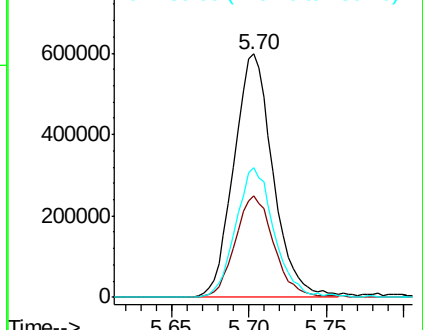
10/18/2019 3:05:00 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.526 ppbv

RT: 3.04 min Scan# 79

Delta R.T. 0.01 min

Lab File: VL034311.D

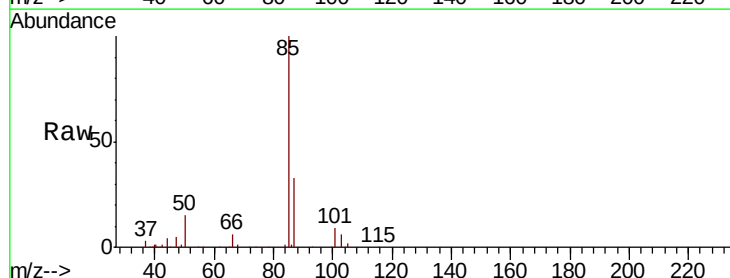
Acq: 17 Oct 2019 00:01

Tgt Ion: 85 Resp: 94770

Ion Ratio Lower Upper

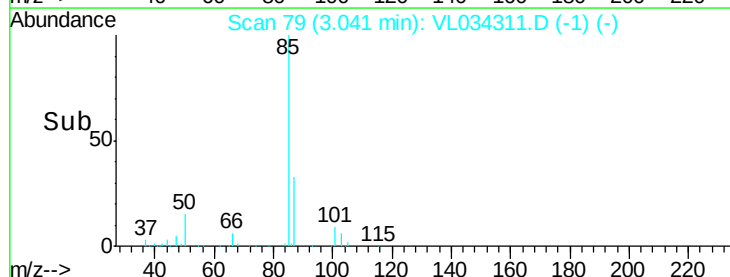
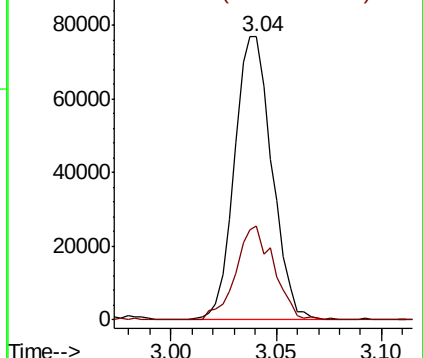
85 100

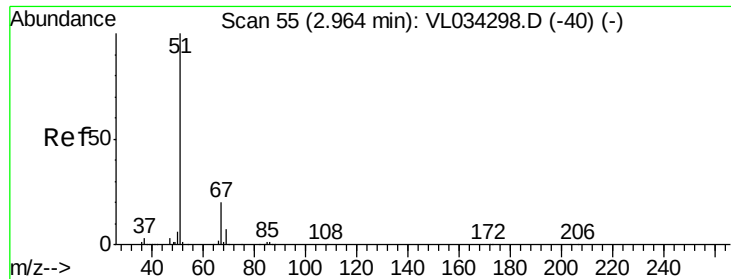
87 33.2 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.438 ppbv

RT: 2.98 min Scan# 59

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 51 Resp: 53707

Ion Ratio Lower Upper

51 100

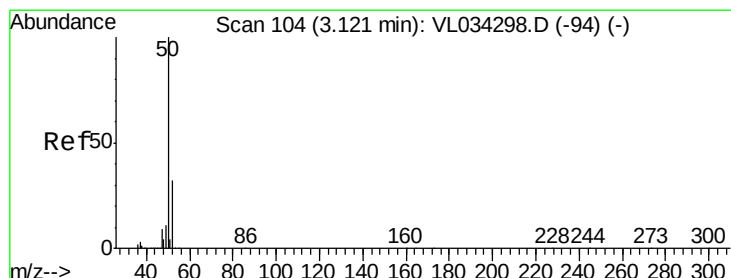
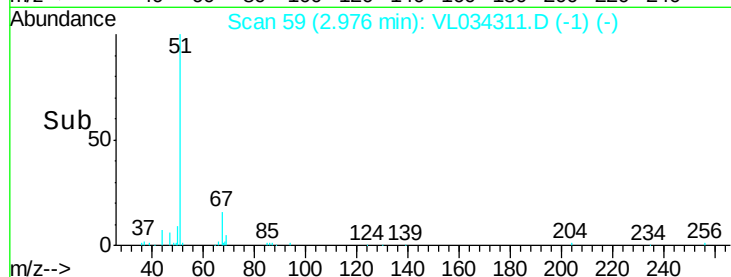
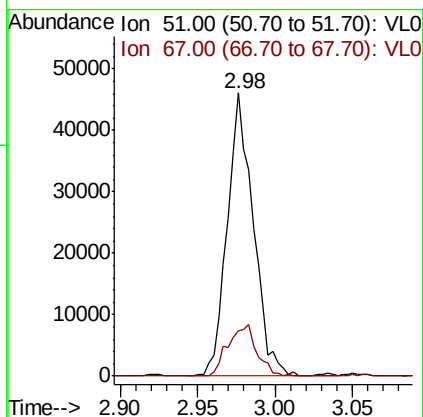
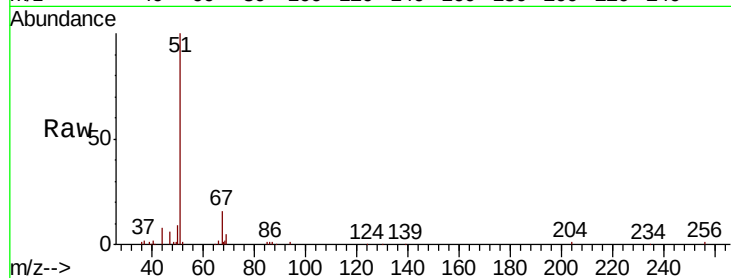
67 20.0 15.8 23.8

Manual Integrations

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#4

Chloromethane

Concen: 0.446 ppbv

RT: 3.14 min Scan# 109

Delta R.T. 0.02 min

Lab File: VL034311.D

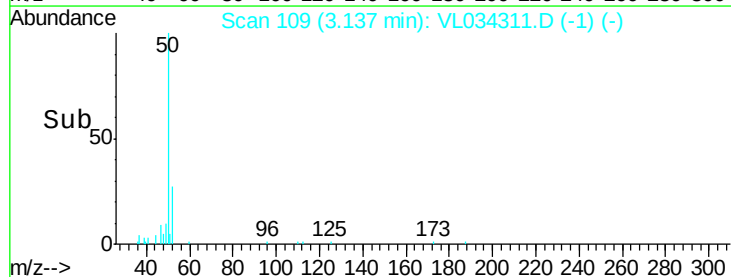
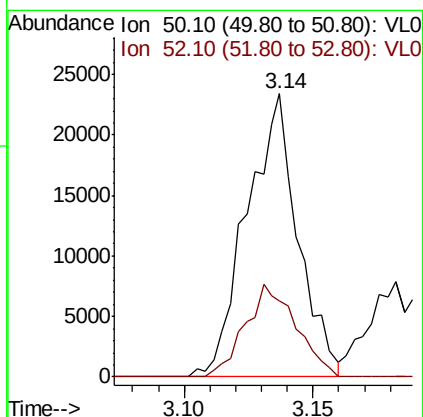
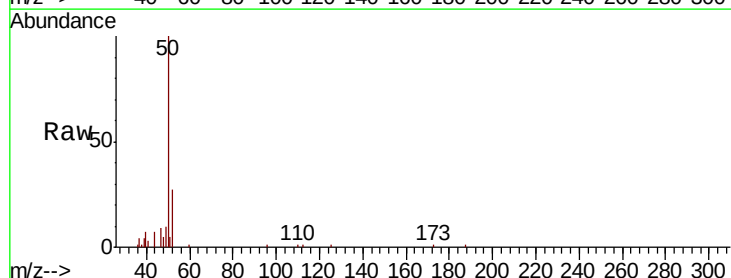
Acq: 17 Oct 2019 00:01

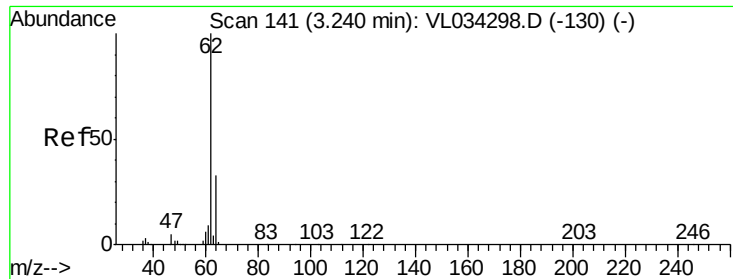
Tgt Ion: 50 Resp: 32340

Ion Ratio Lower Upper

50 100

52 26.9 25.4 38.2





#5

Vinyl Chloride

Concen: 0.407 ppbv

RT: 3.25 min Scan# 144

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 62 Resp: 28098

Ion Ratio Lower Upper

62 100

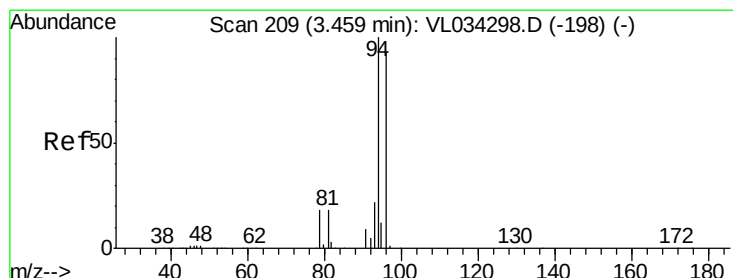
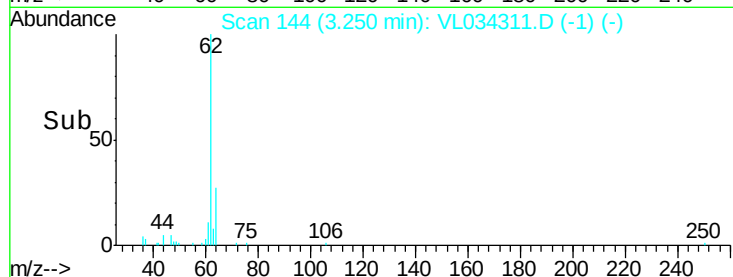
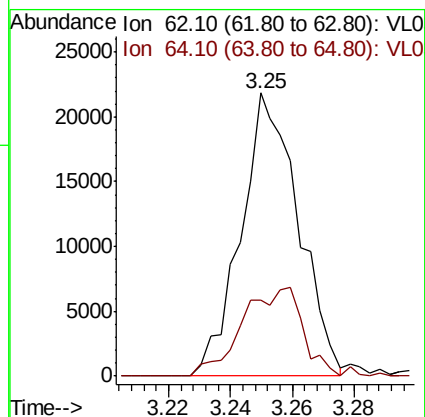
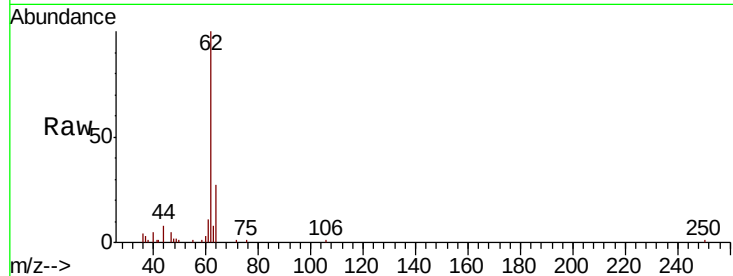
64 26.9 26.0 39.0

Manual Integrations

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#6

Bromomethane

Concen: 0.443 ppbv m

RT: 3.47 min Scan# 213

Delta R.T. 0.01 min

Lab File: VL034311.D

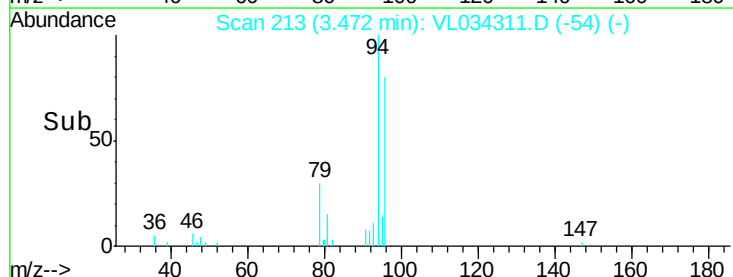
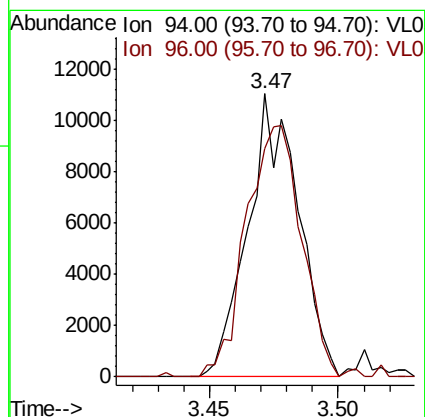
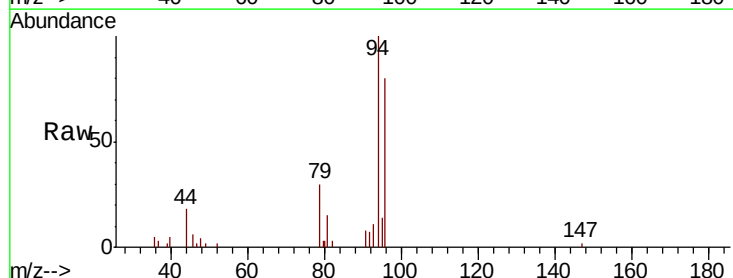
Acq: 17 Oct 2019 00:01

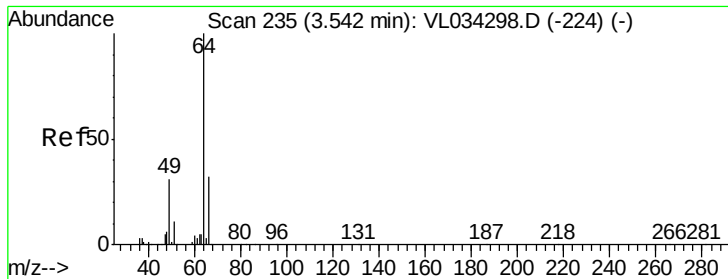
Tgt Ion: 94 Resp: 14992

Ion Ratio Lower Upper

94 100

96 80.5 74.6 112.0





#7

Chloroethane

Concen: 0.462 ppbv m

RT: 3.56 min Scan# 241

Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

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ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 64 Resp: 11226

Ion Ratio Lower Upper

64 100

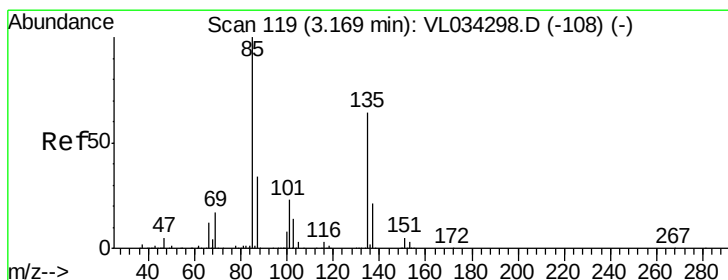
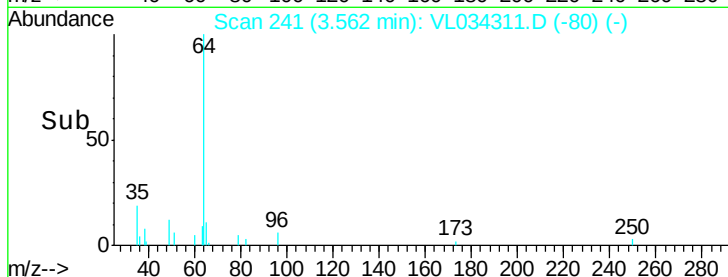
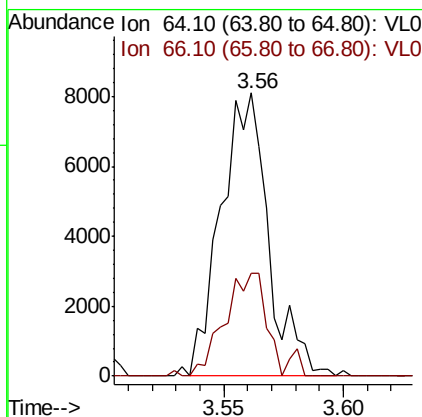
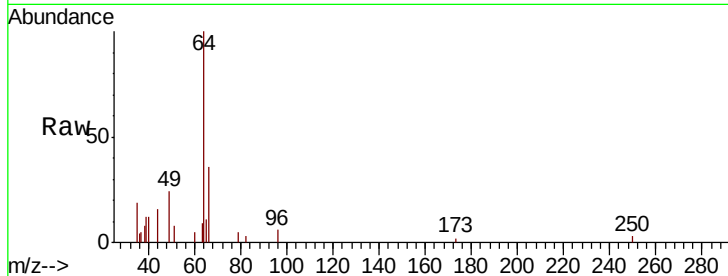
66 36.5 25.4 38.0

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#8

Dichlorotetrafluoroethane

Concen: 0.479 ppbv

RT: 3.18 min Scan# 123

Delta R.T. 0.01 min

Lab File: VL034311.D

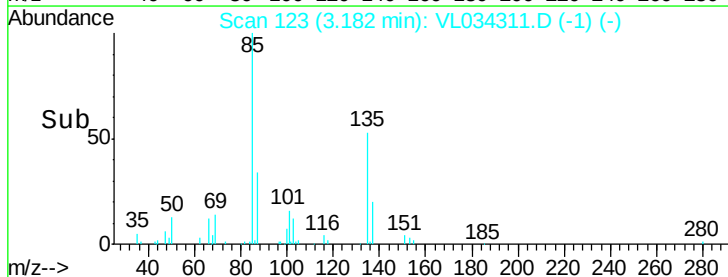
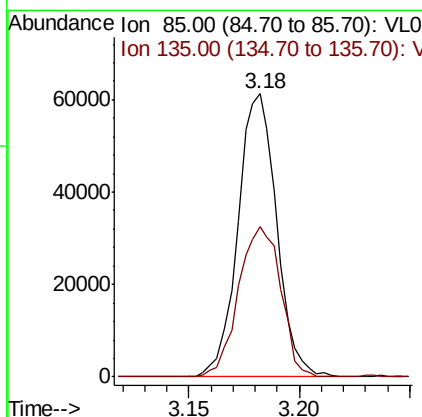
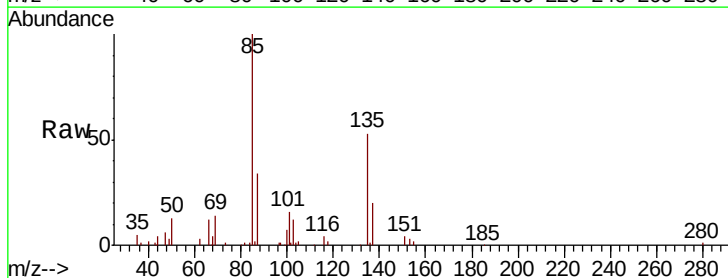
Acq: 17 Oct 2019 00:01

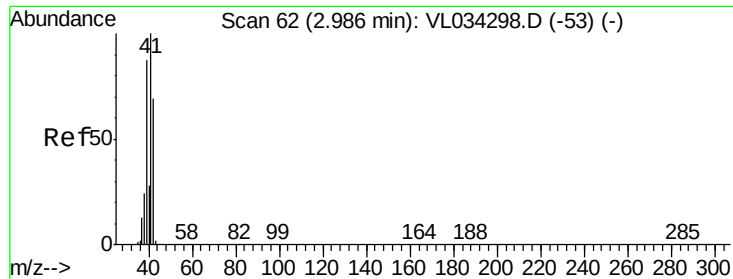
Tgt Ion: 85 Resp: 74827

Ion Ratio Lower Upper

85 100

135 58.1 50.2 75.2





#9

Propene

Concen: 0.409 ppbv

RT: 3.00 min Scan# 65

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 41 Resp: 22197

Ion Ratio Lower Upper

41 100

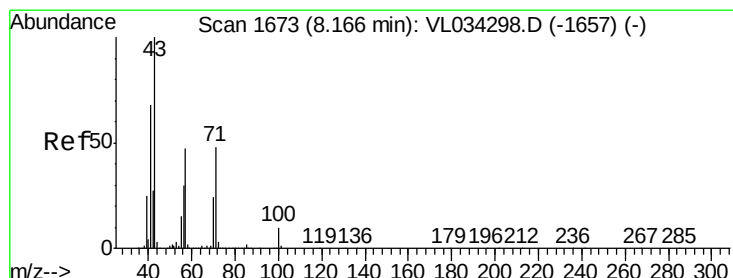
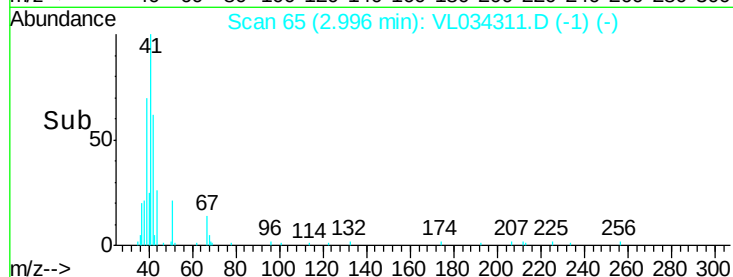
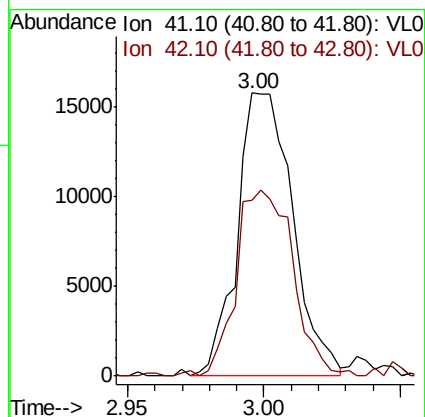
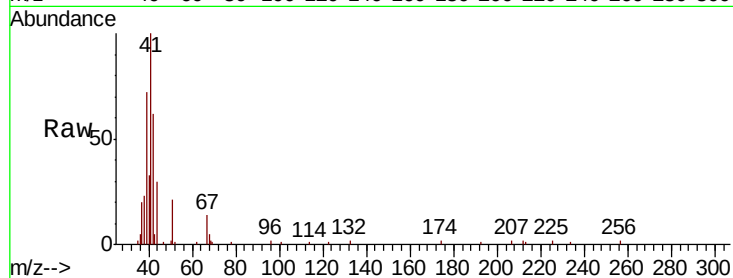
42 69.2 53.9 80.9

Manual Integrations

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#10

Heptane

Concen: 0.361 ppbv m

RT: 8.19 min Scan# 1679

Delta R.T. 0.02 min

Lab File: VL034311.D

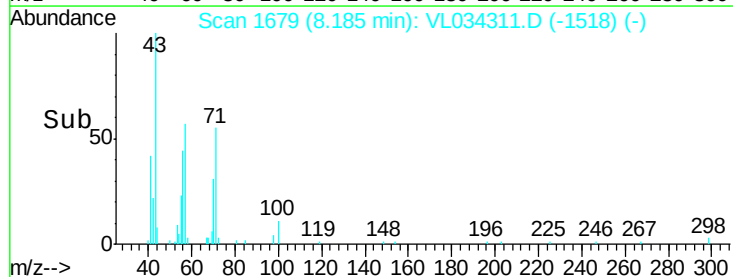
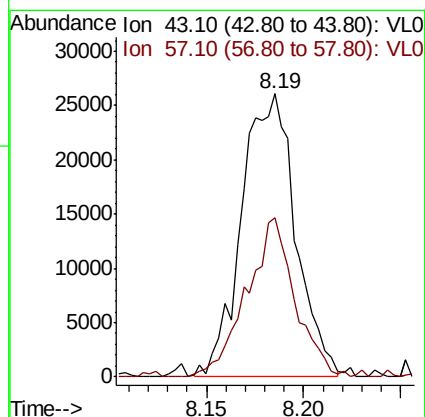
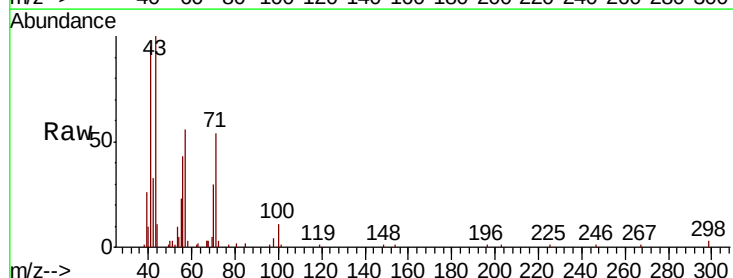
Acq: 17 Oct 2019 00:01

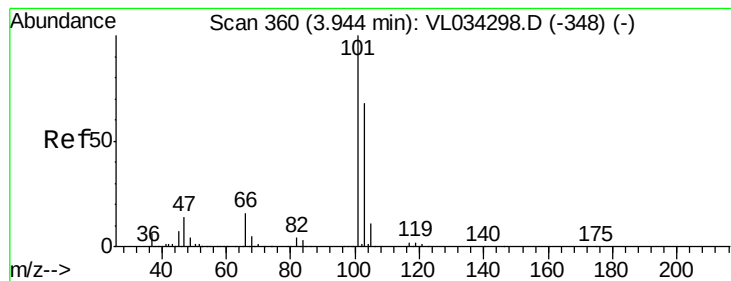
Tgt Ion: 43 Resp: 50287

Ion Ratio Lower Upper

43 100

57 50.1 39.5 59.3





#11

Trichlorofluoromethane

Concen: 0.470 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:101 Resp: 80448

Ion Ratio Lower Upper

101 100

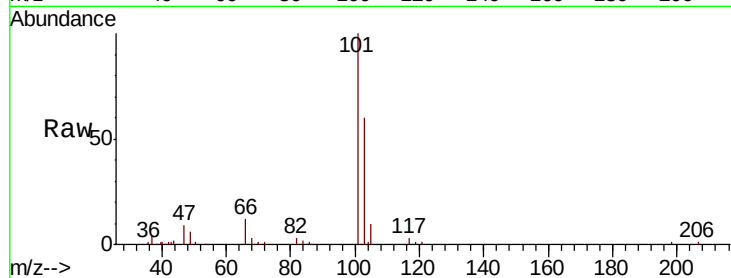
103 59.6 54.5 81.7

Manual Integrations

APPROVED

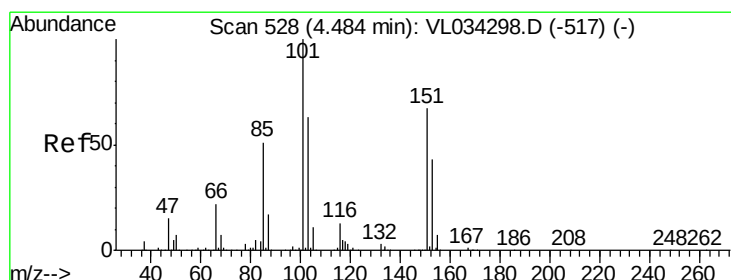
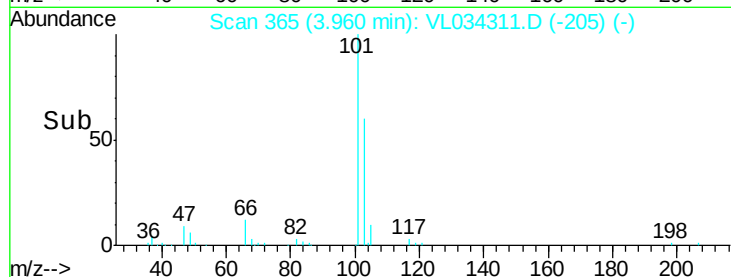
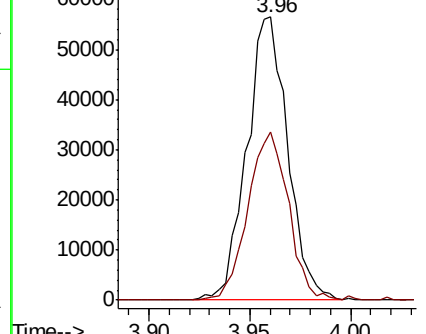
MMDadoda

10/18/2019 3:05:00 PM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.446 ppbv

RT: 4.50 min Scan# 534

Delta R.T. 0.02 min

Lab File: VL034311.D

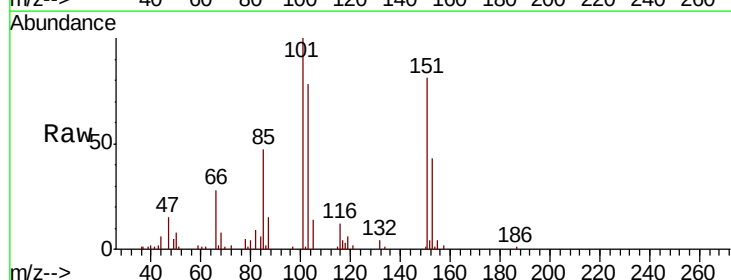
Acq: 17 Oct 2019 00:01

Tgt Ion:101 Resp: 49989

Ion Ratio Lower Upper

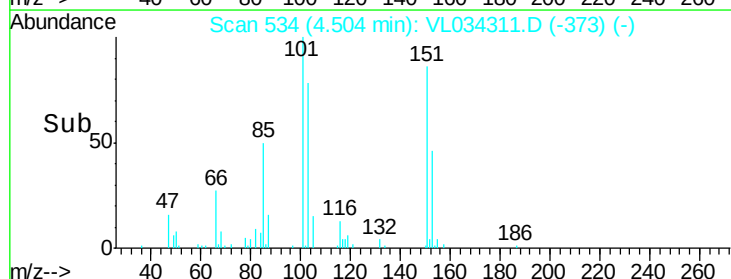
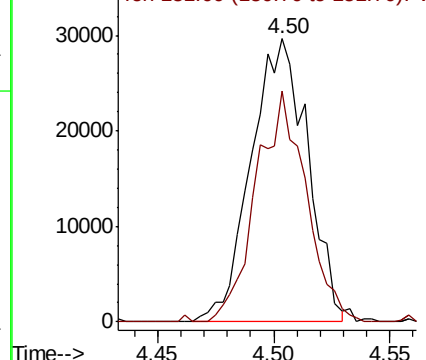
101 100

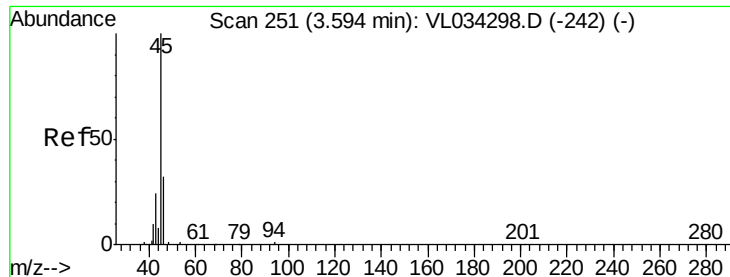
151 72.3 57.4 86.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





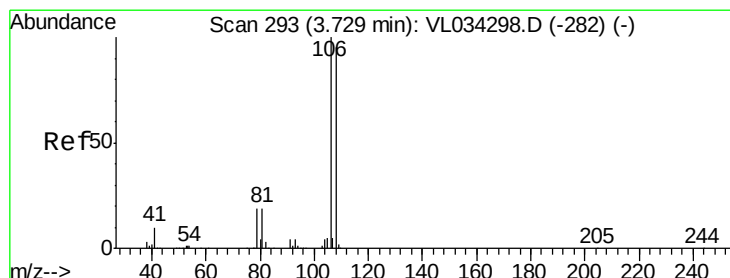
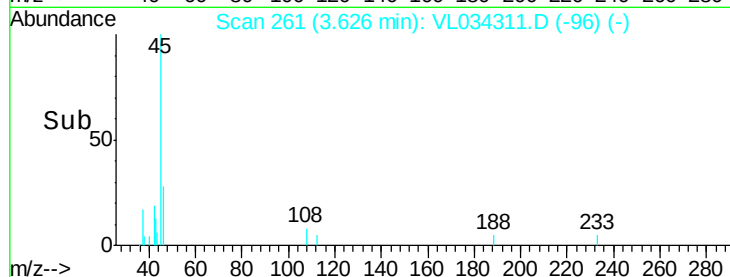
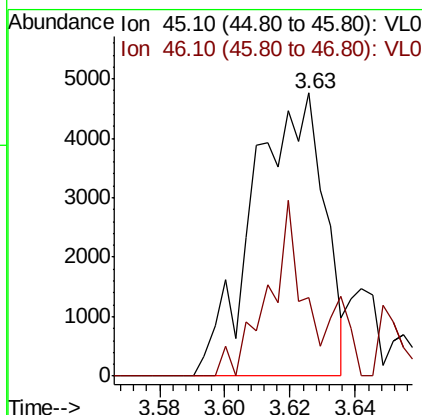
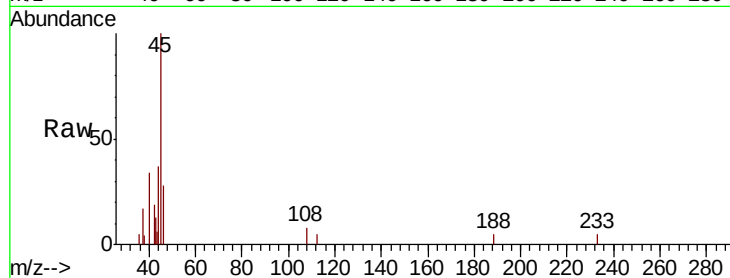
#13
Ethanol
Concen: 0.586 ppbv m
RT: 3.63 min Scan# 261
Delta R.T. 0.03 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	15.8	63.2#

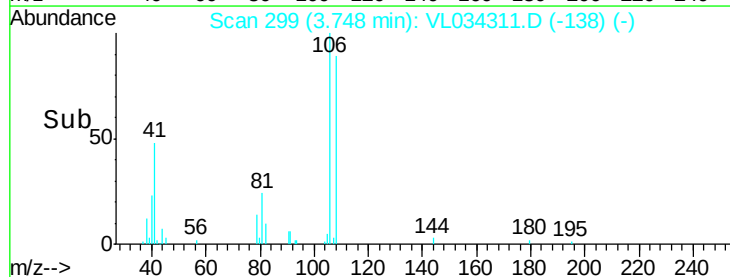
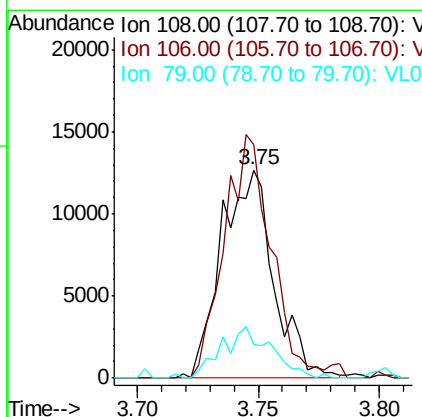
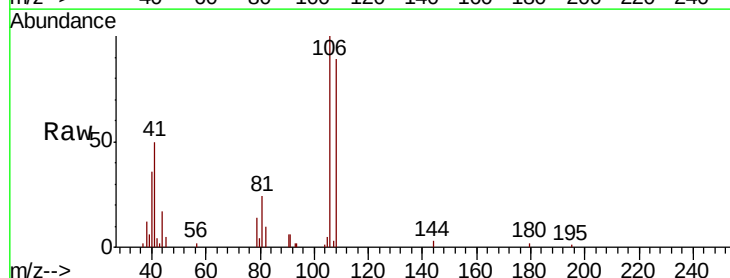
Manual Integrations
APPROVED

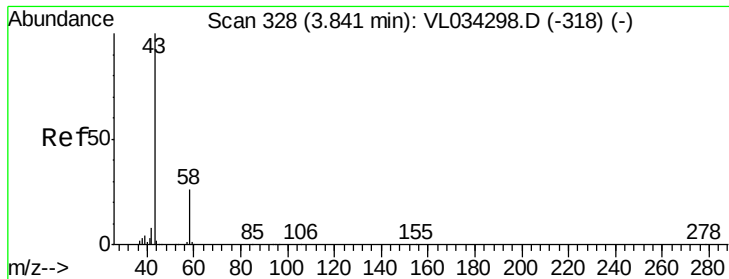
MMDadoda
10/18/2019 3:05:00 PM



#14
Bromoethene
Concen: 0.433 ppbv m
RT: 3.75 min Scan# 299
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
108	100		
106	0.0	84.8	127.2#
79	0.0	17.0	25.4#





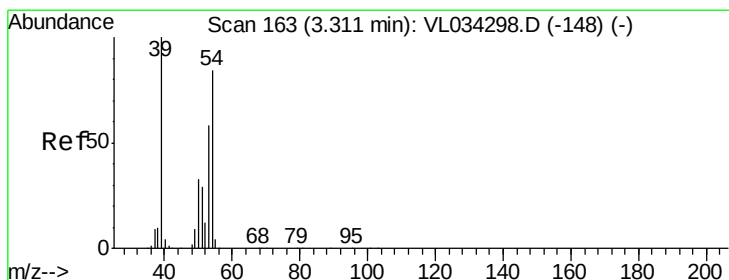
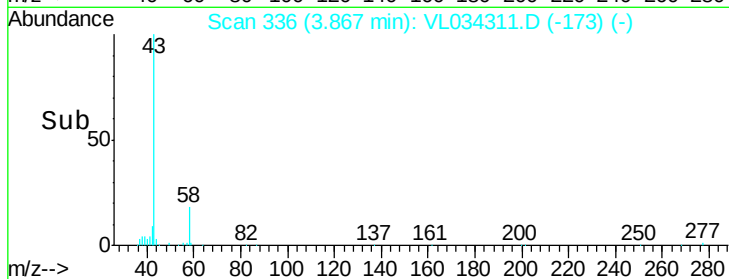
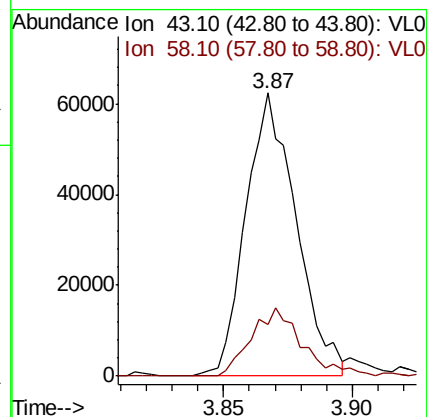
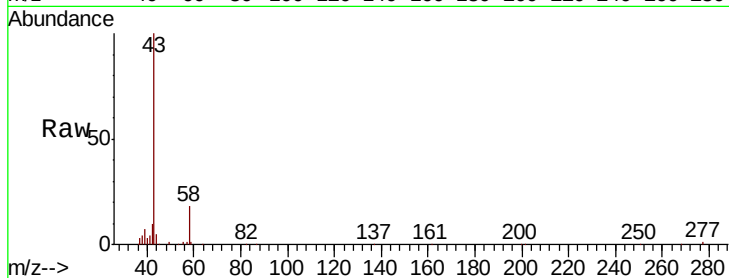
#15
Acetone
Concen: 0.567 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.03 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	43	Resp	84822
Ion Ratio	100	Lower	Upper
43	100		
58	24.9	20.4	30.6

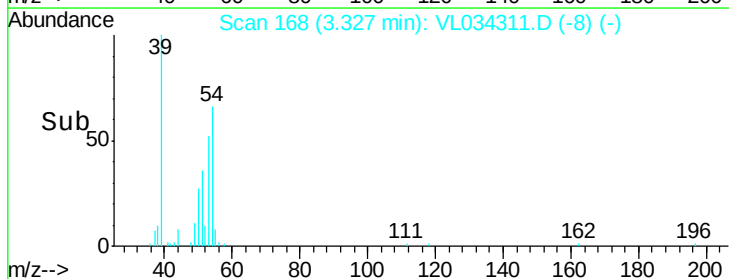
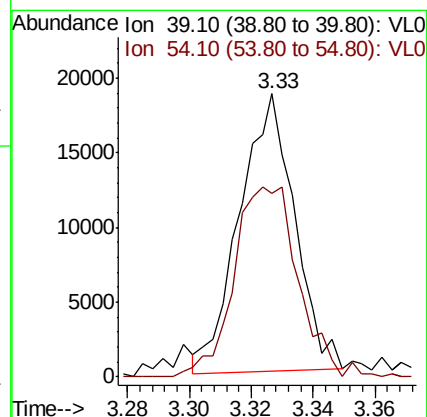
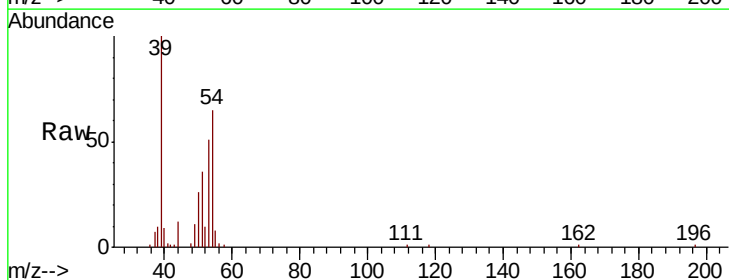
Manual Integrations
APPROVED

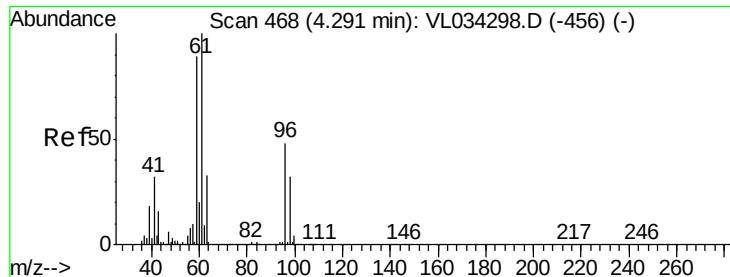
MMDadoda
10/18/2019 3:05:00 PM



#16
1,3-Butadiene
Concen: 0.378 ppbv
RT: 3.33 min Scan# 168
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	39	Resp	22963
Ion Ratio	100	Lower	Upper
39	100		
54	80.3	63.9	95.9





#17

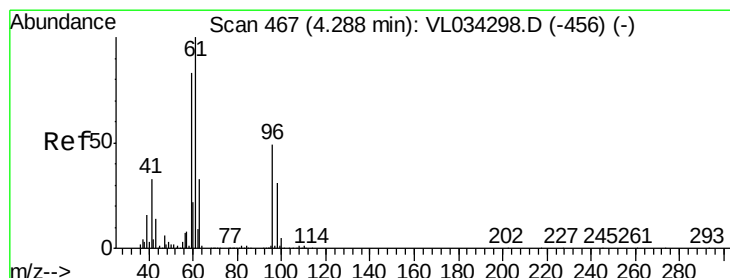
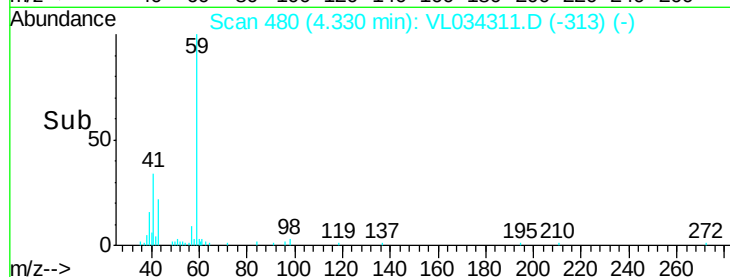
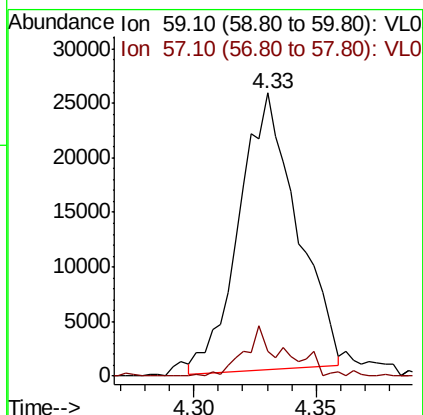
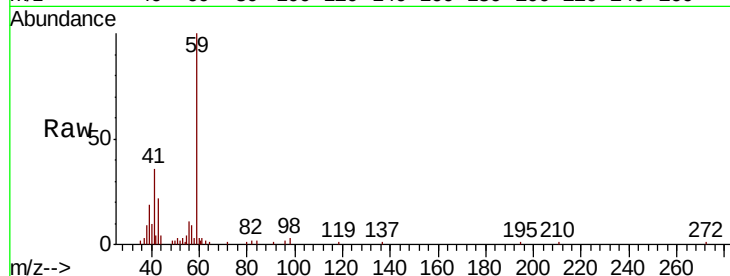
tert-Butyl alcohol
Concen: 0.439 ppbv
RT: 4.33 min Scan# 480
Delta R.T. 0.04 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion: 59 Resp: 41868
Ion Ratio Lower Upper
59 100
57 12.8 8.8 13.2

Manual Integrations
APPROVED

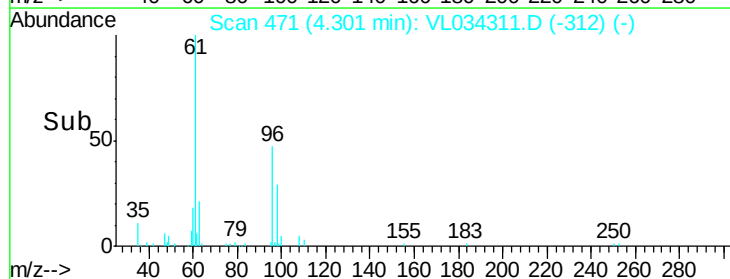
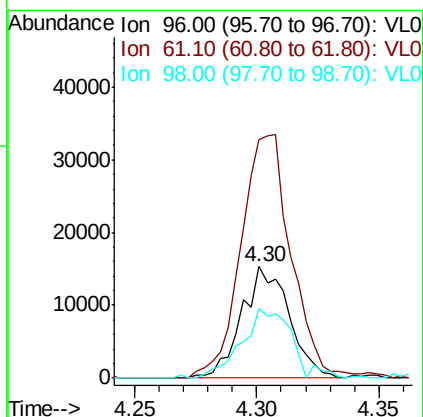
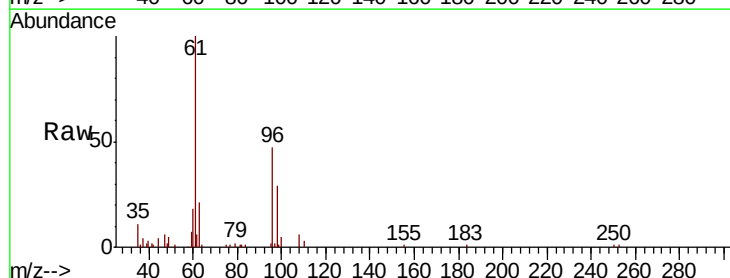
MMDadoda
10/18/2019 3:05:00 PM

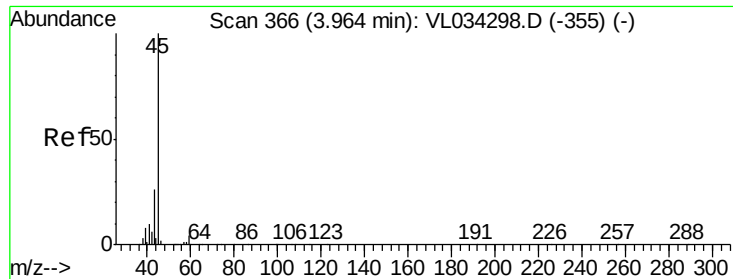


#18

1,1-Dichloroethene
Concen: 0.421 ppbv
RT: 4.30 min Scan# 471
Delta R.T. 0.01 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion: 96 Resp: 20640
Ion Ratio Lower Upper
96 100
61 225.6 164.5 246.7
98 61.9 51.7 77.5





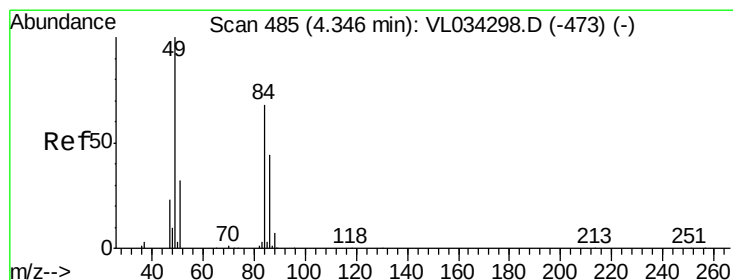
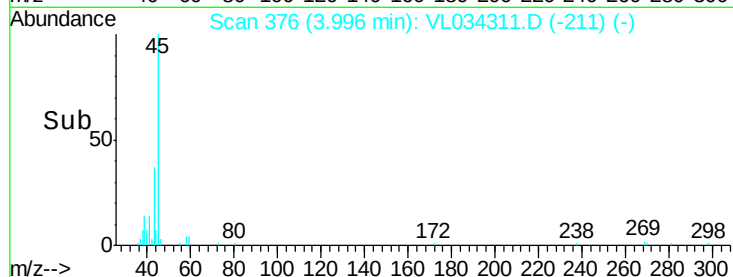
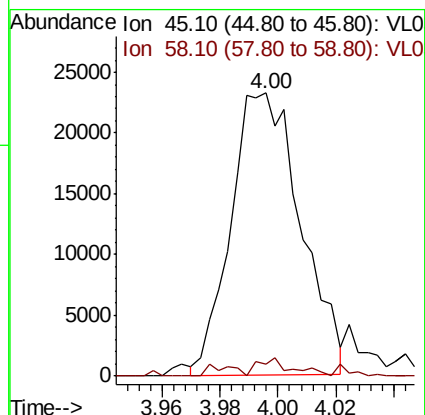
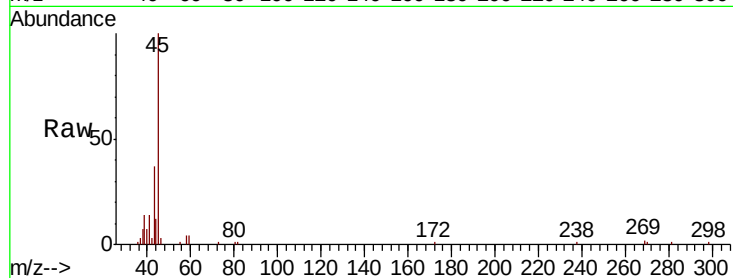
#19
Isopropyl Alcohol
Concen: 0.467 ppbv
RT: 4.00 min Scan# 376
Delta R.T. 0.03 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
45	100		
58	5.3	1.4	2.2#

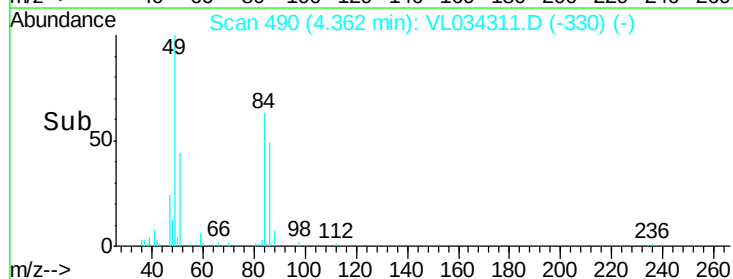
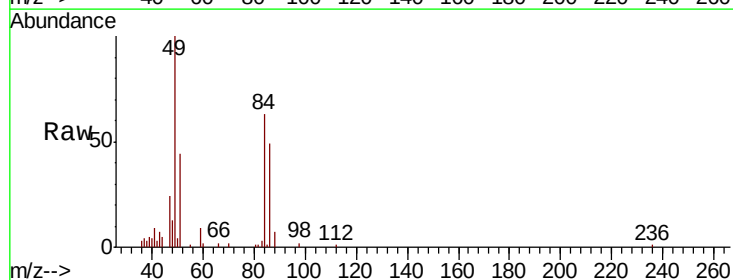
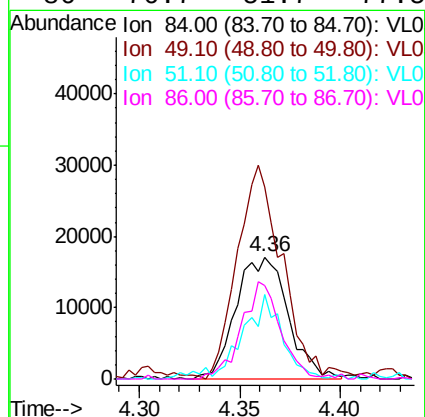
Manual Integrations
APPROVED

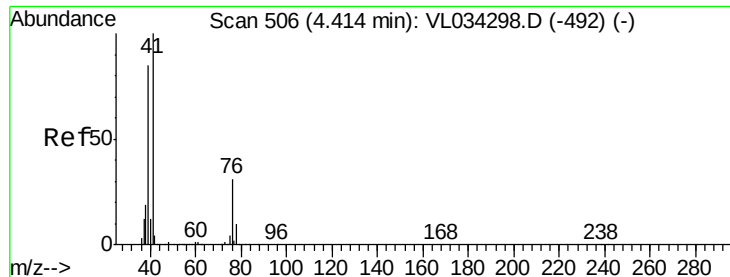
MMDadoda
10/18/2019 3:05:00 PM



#20
Methylene Chloride
Concen: 0.565 ppbv m
RT: 4.36 min Scan# 490
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
84	100		
49	157.6	118.5	177.7
51	69.5	38.8	58.2#
86	76.7	51.7	77.5





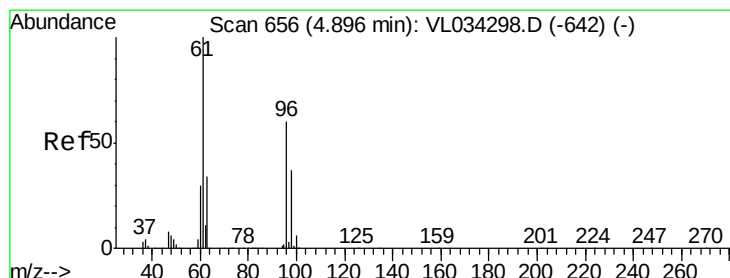
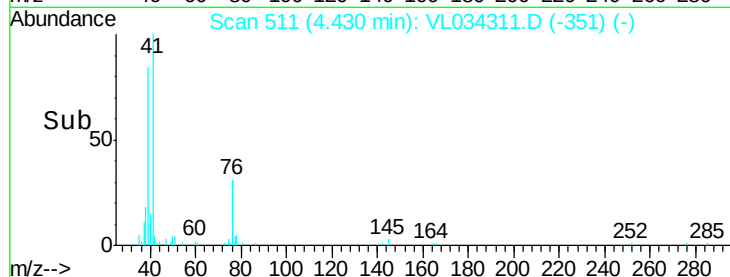
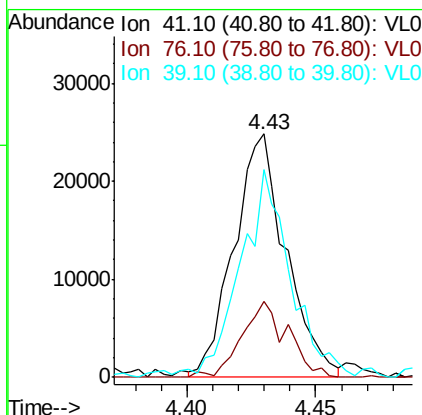
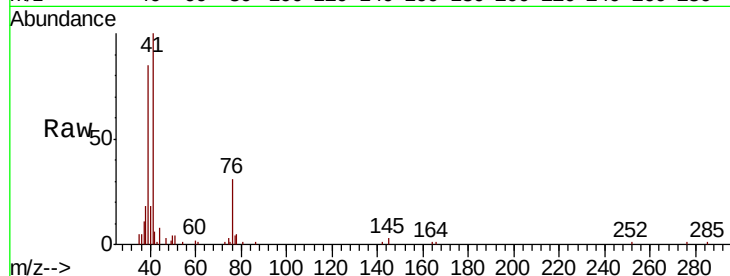
#21
Allvl Chloride
Concen: 0.424 ppbv
RT: 4.43 min Scan# 511
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
76	27.5	22.8	34.2
39	83.1	66.0	99.0

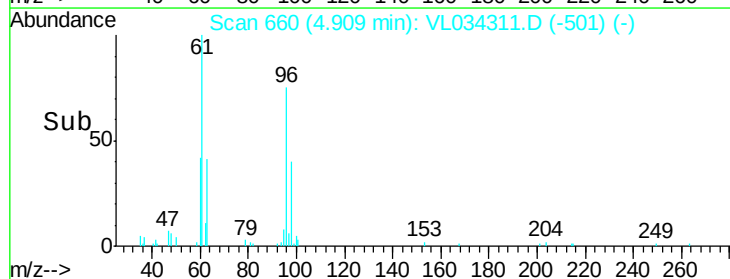
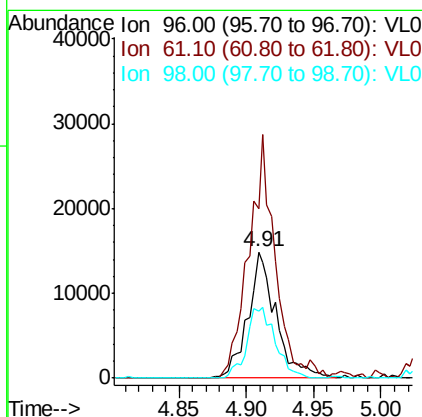
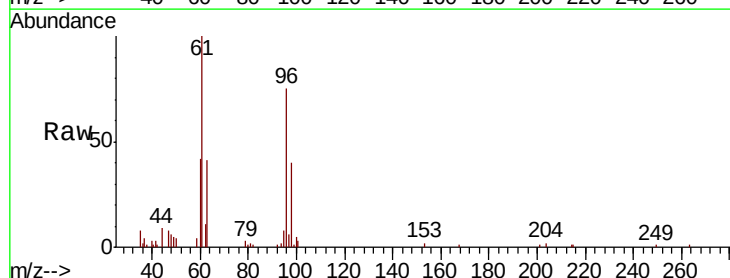
Manual Integrations
APPROVED

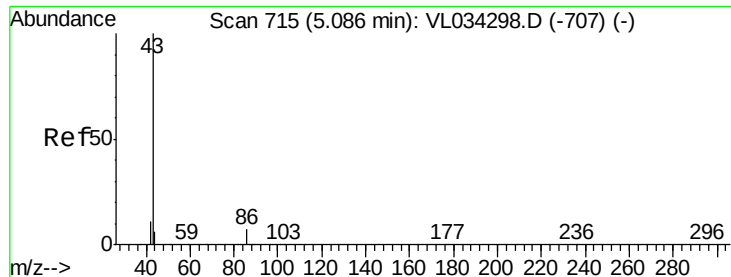
MMDadoda
10/18/2019 3:05:00 PM



#22
trans-1,2-Dichloroethene
Concen: 0.443 ppbv m
RT: 4.91 min Scan# 660
Delta R.T. 0.01 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
96	100		
61	133.9	133.8	200.6
98	53.5	49.4	74.0





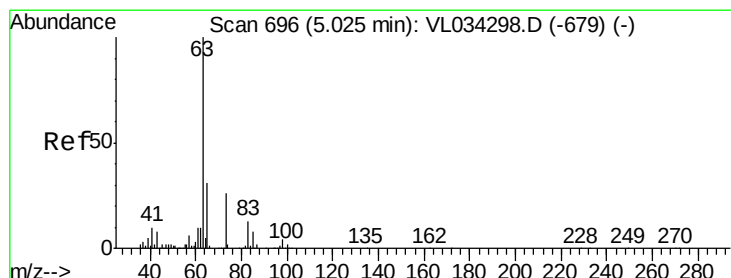
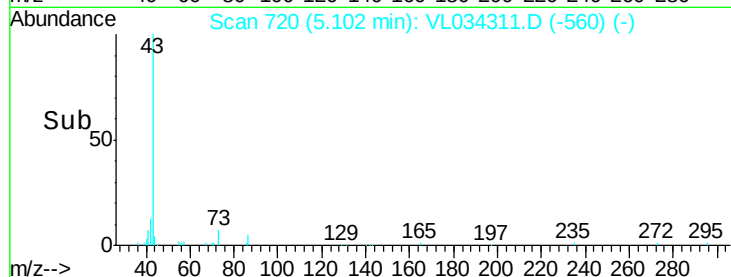
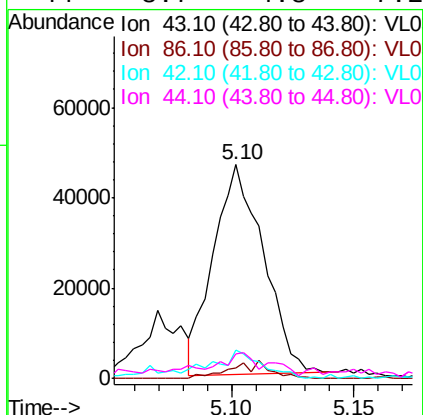
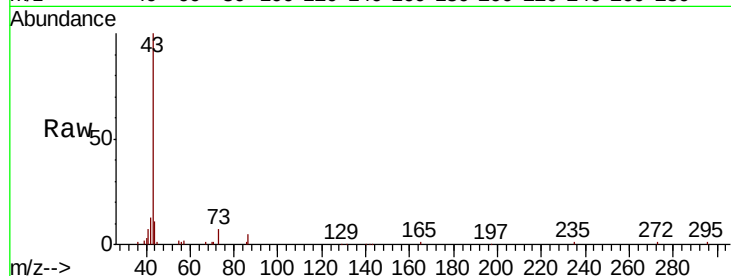
#23
 Vinyl Acetate
 Concen: 0.358 ppbv
 RT: 5.10 min Scan# 720
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	43	Resp	66744
Ion	Ratio	Lower	Upper
43	100		
86	4.9	5.0	7.4#
42	14.1	8.6	13.0#
44	8.7	4.8	7.2#

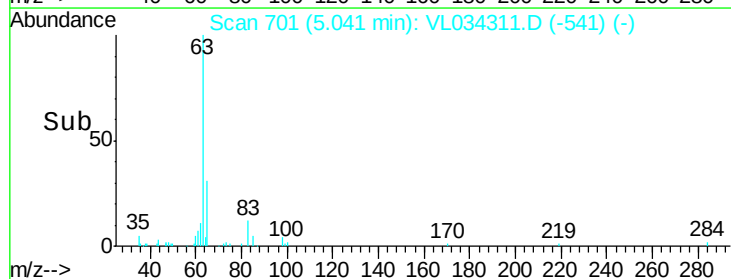
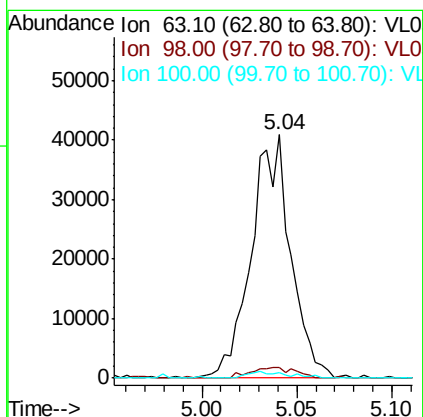
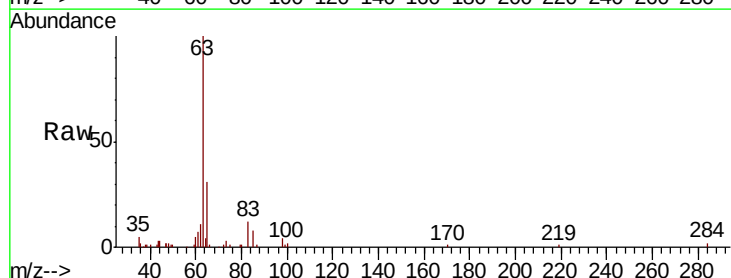
Manual Integrations
 APPROVED

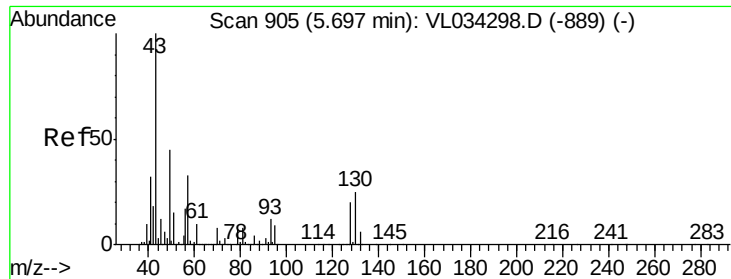
MMDadoda
 10/18/2019 3:05:00 PM



#24
 1,1-Dichloroethane
 Concen: 0.424 ppbv m
 RT: 5.04 min Scan# 701
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Tgt Ion	63	Resp	58675
Ion	Ratio	Lower	Upper
63	100		
98	4.2	2.0	6.0
100	2.1	1.1	3.5





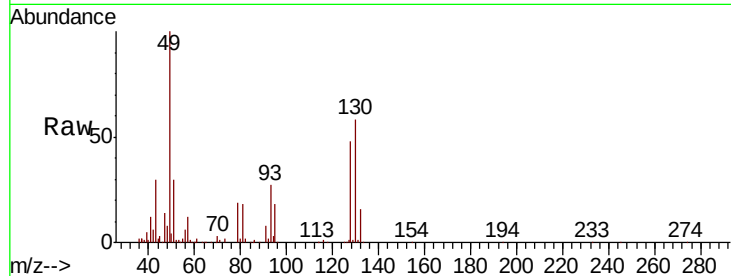
#25
Ethyl Acetate
Concen: 0.425 ppbv
RT: 5.72 min Scan# 912
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	9.7	8.3	12.5		
61	9.1	7.7	11.5		
70	6.5	5.4	8.2		

Manual Integrations
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MMDadoda
10/18/2019 3:05:00 PM



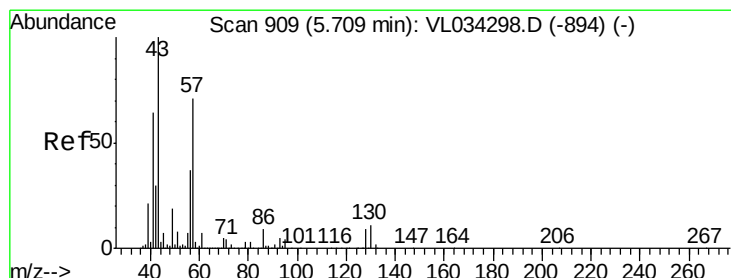
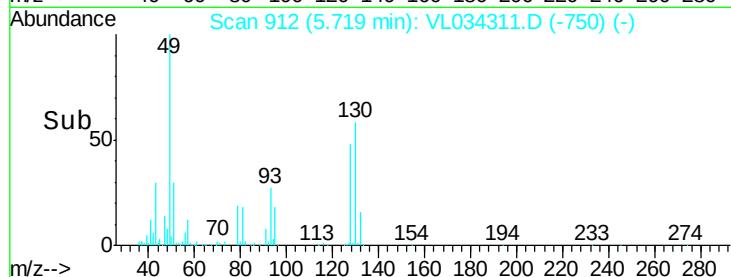
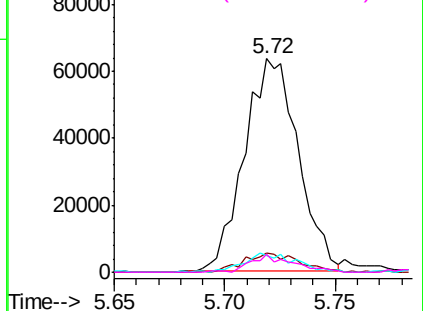
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.389 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.01 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	116.4	76.5	114.7#		
43	270.5	188.5	282.7		
56	59.2	42.8	64.2		

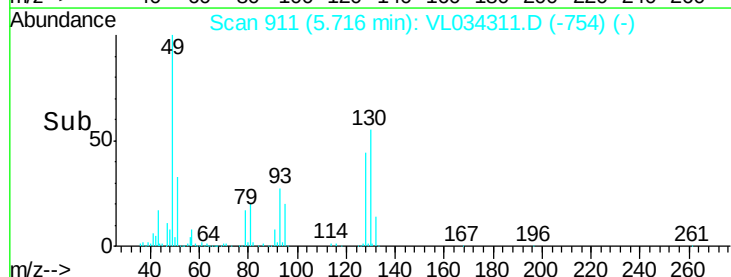
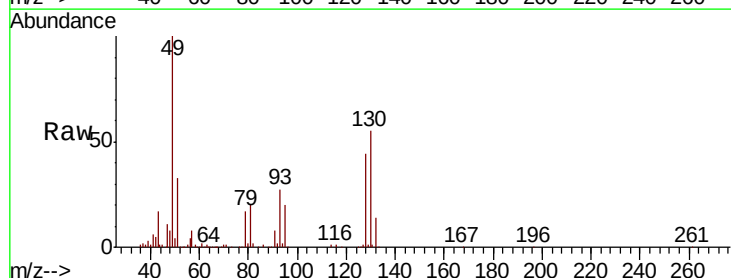
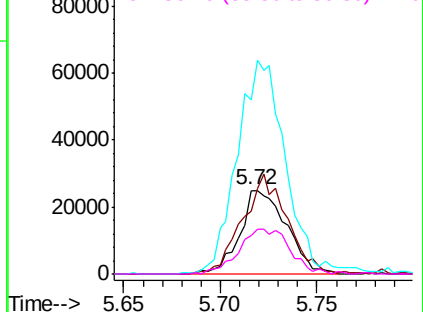
Abundance

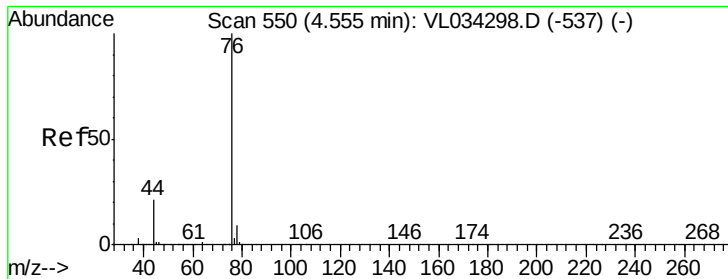
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.378 ppbv m

RT: 4.57 min Scan# 556

Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

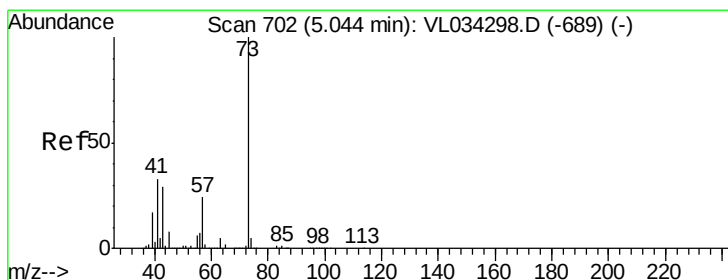
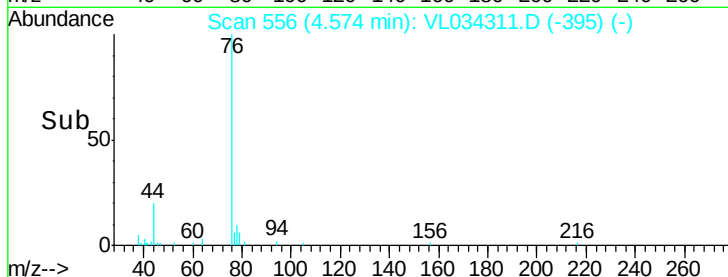
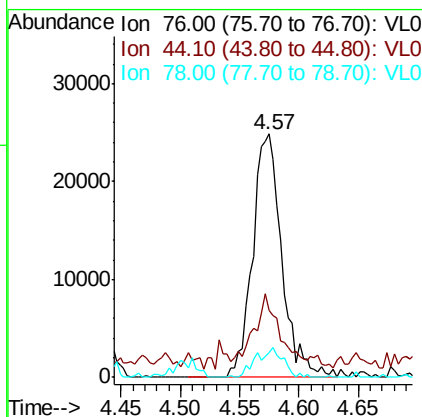
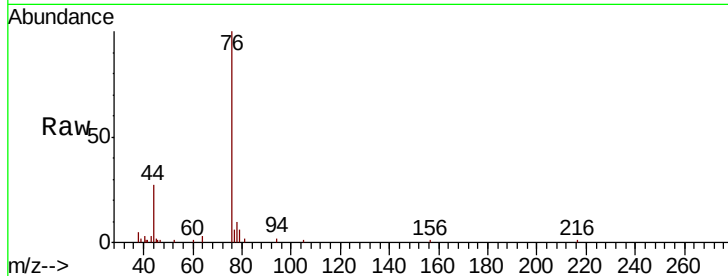
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	76	Resp:	42208
Ion	Ratio	Lower	Upper
76	100		
44	34.0	17.3	25.9#
78	11.2	7.8	11.6

Manual Integrations
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MMDadoda
10/18/2019 3:05:00 PM



#28

Methyl tert-Butyl Ether

Concen: 0.373 ppbv

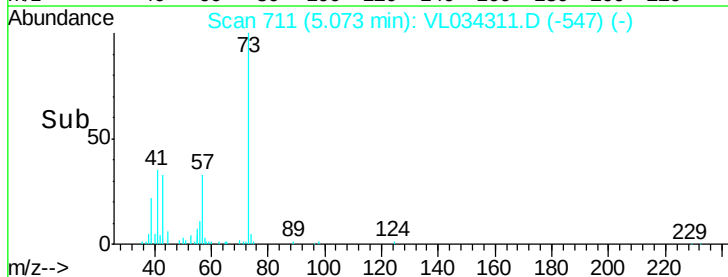
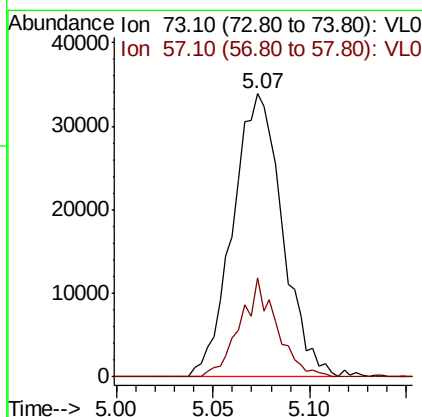
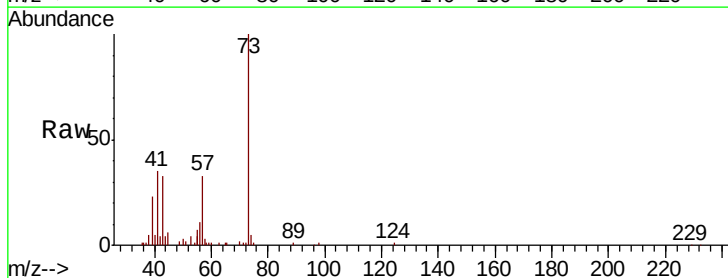
RT: 5.07 min Scan# 711

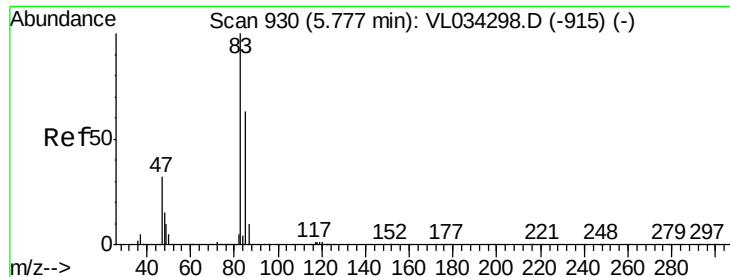
Delta R.T. 0.03 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion:	73	Resp:	60672
Ion	Ratio	Lower	Upper
73	100		
57	25.8	19.2	28.8





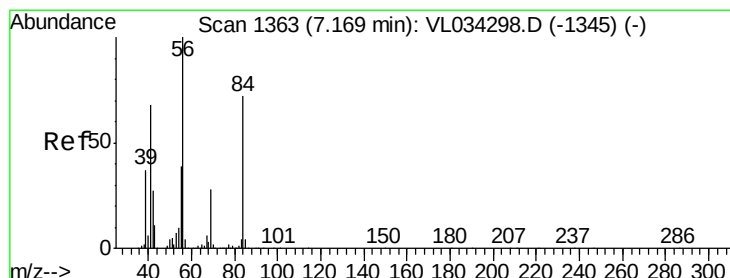
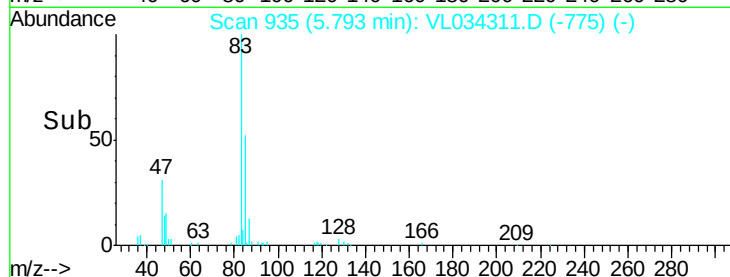
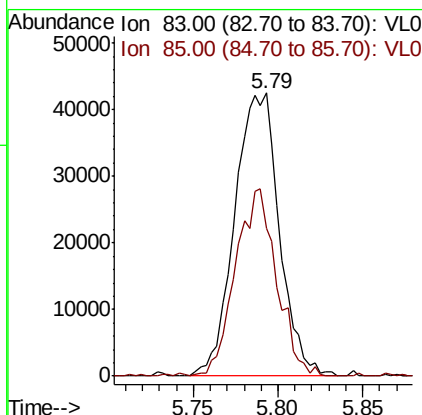
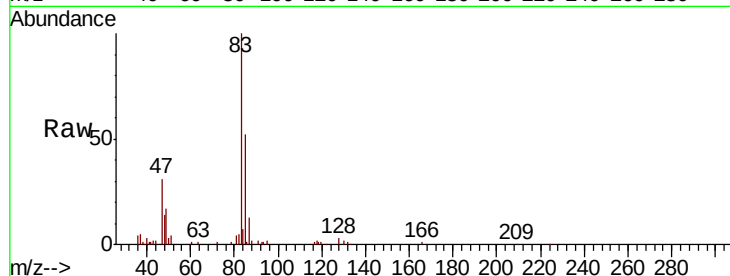
#29
Chloroform
Concen: 0.458 ppbv m
RT: 5.79 min Scan# 935
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	83	Resp	77874
Ion Ratio	100	Lower	Upper
83	100		
85	52.4	50.5	75.7

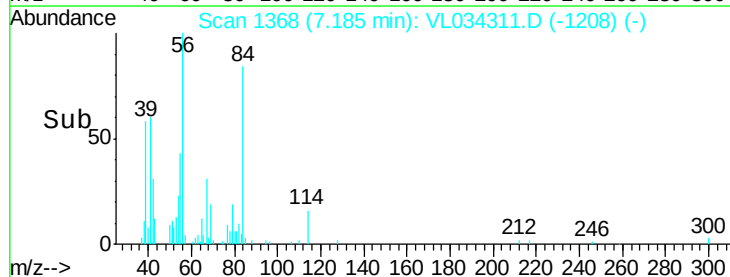
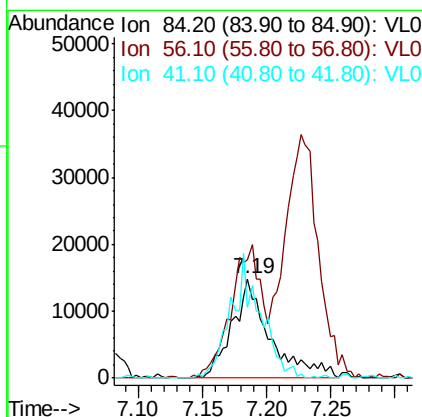
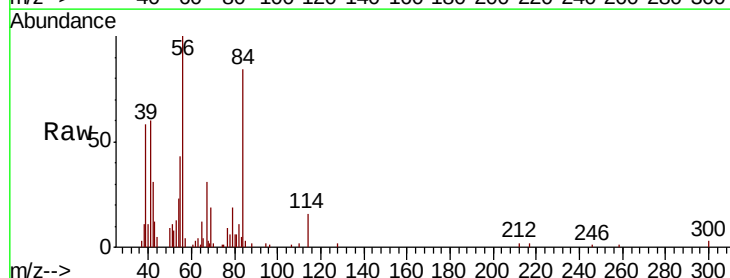
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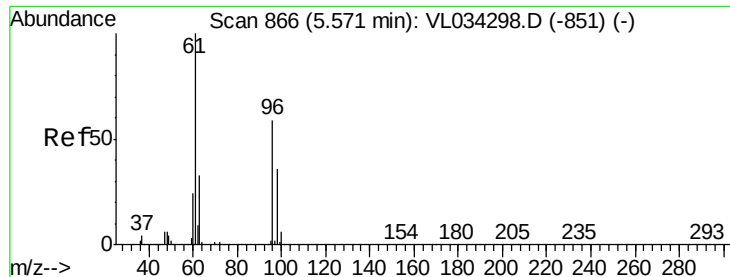
MMDadoda
10/18/2019 3:05:00 PM



#30
Cyclohexane
Concen: 0.382 ppbv m
RT: 7.19 min Scan# 1368
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	84	Resp	30236
Ion Ratio	100	Lower	Upper
84	100		
56	118.8	119.4	179.0#
41	98.0	78.7	118.1





#31

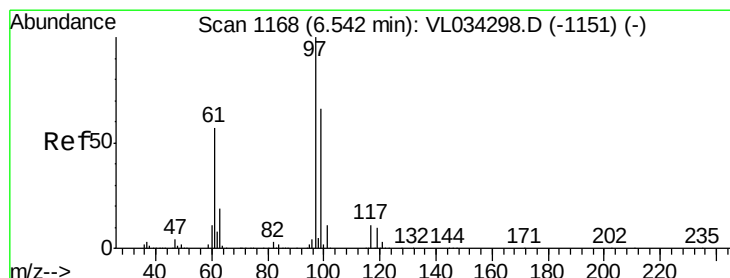
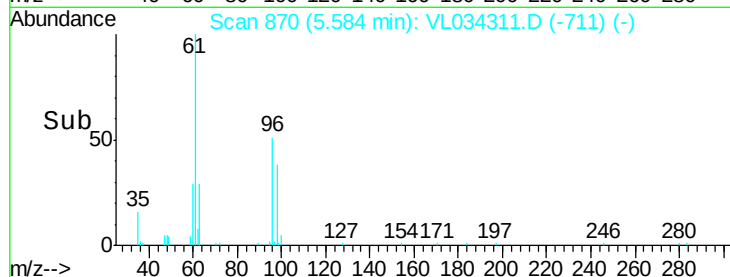
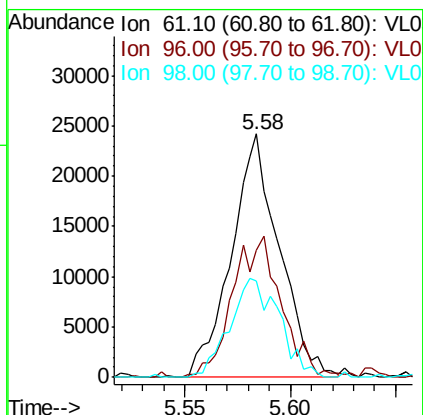
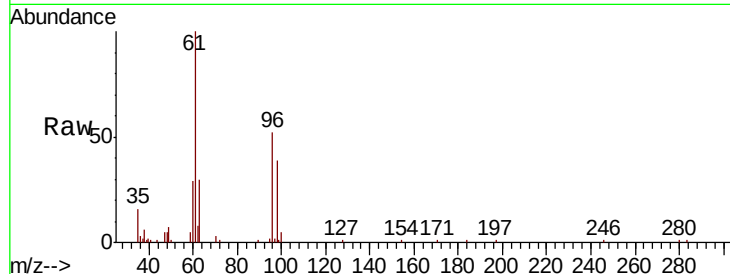
cis-1,2-Dichloroethene
Concen: 0.349 ppbv
RT: 5.58 min Scan# 870
Delta R.T. 0.01 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
61	100		
96	50.9	47.5	71.3
98	39.5	28.8	43.2

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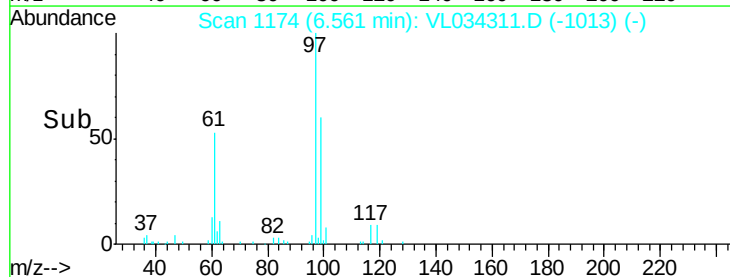
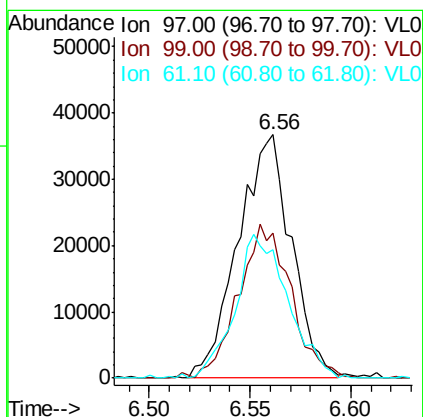
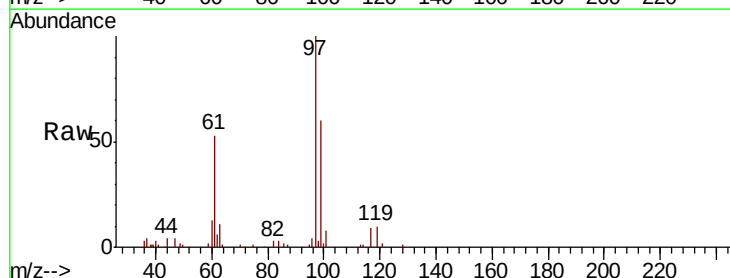
MMDadoda
10/18/2019 3:05:00 PM

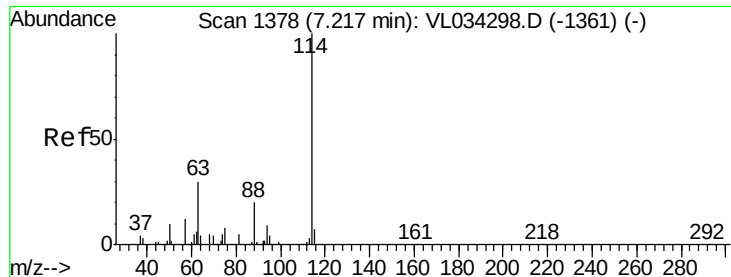


#32

1,1,1-Trichloroethane
Concen: 0.412 ppbv
RT: 6.56 min Scan# 1174
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
97	100		
99	61.8	52.6	78.8
61	58.4	44.5	66.7





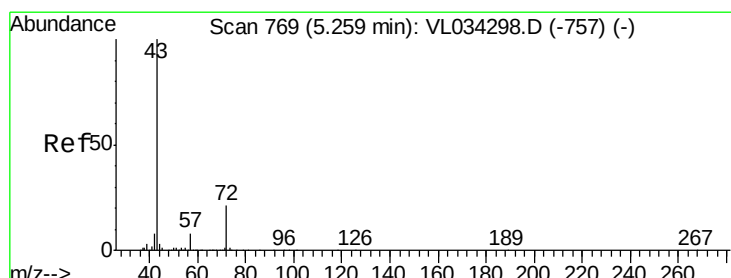
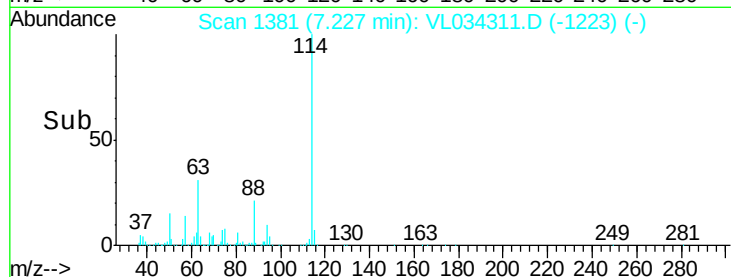
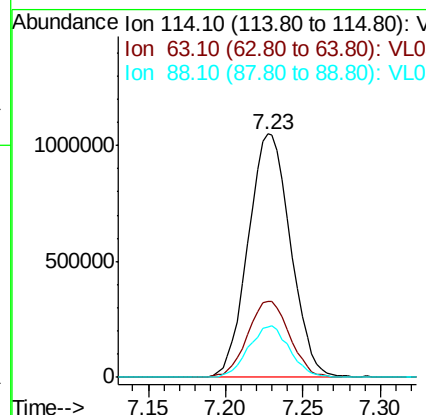
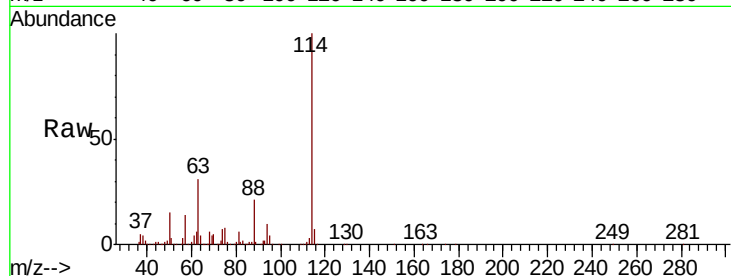
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. 0.01 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
114	100		
63	31.3	25.2	37.8
88	20.5	16.0	24.0

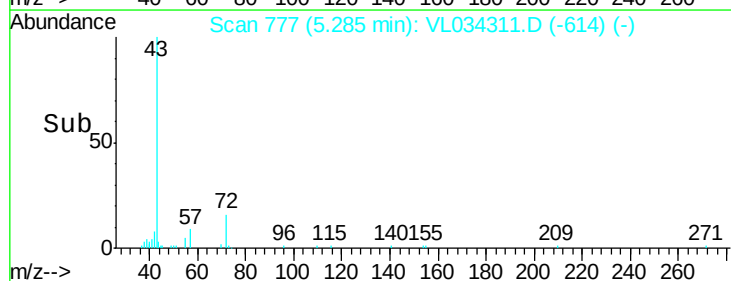
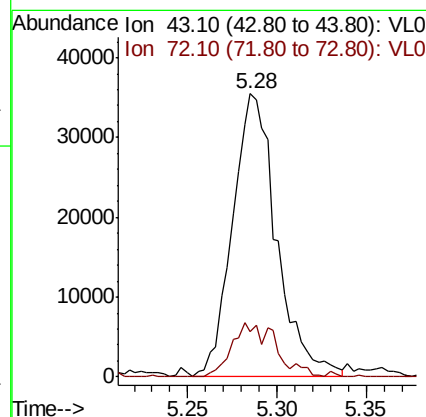
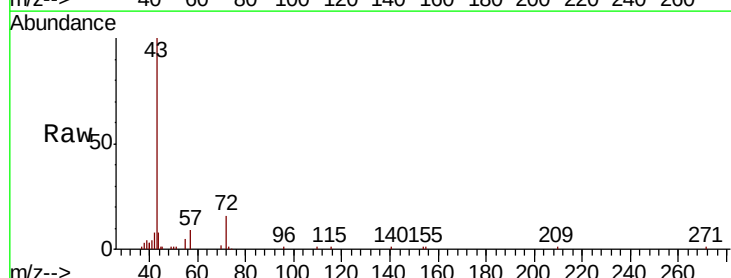
Manual Integrations
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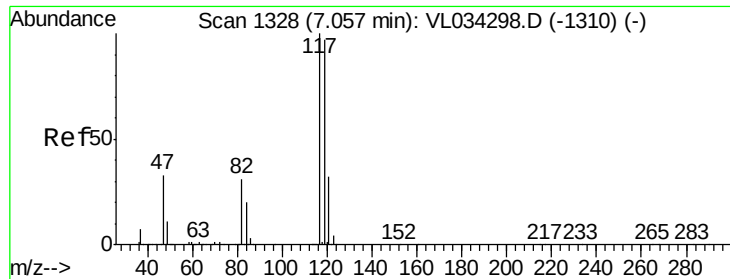
MMDadoda
 10/18/2019 3:05:00 PM



#34
 2-Butanone
 Concen: 0.374 ppbv
 RT: 5.28 min Scan# 777
 Delta R.T. 0.03 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.5	16.3	24.5





#35

Carbon Tetrachloride

Concen: 0.395 ppbv m

RT: 7.07 min Scan# 1331

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

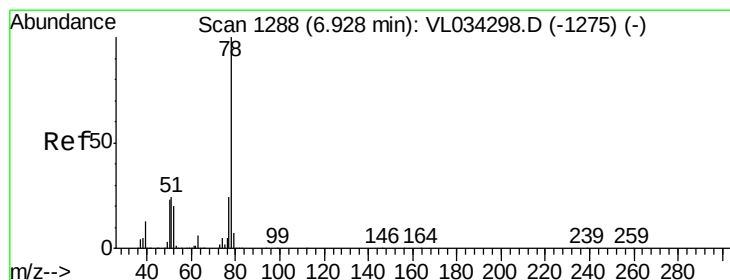
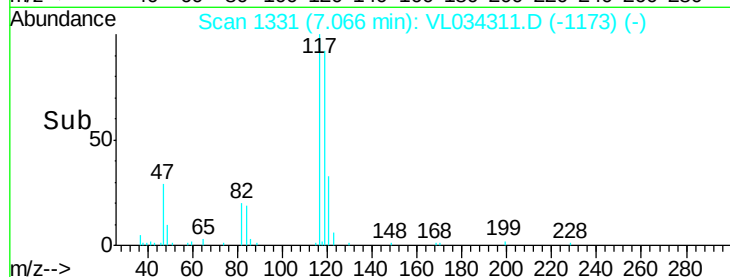
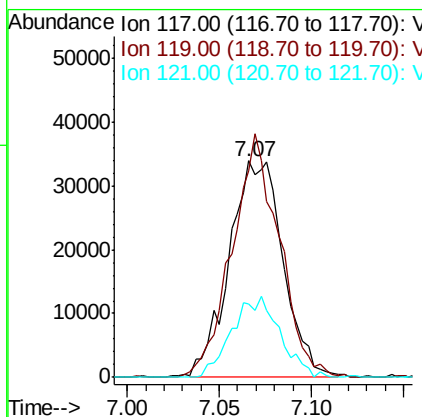
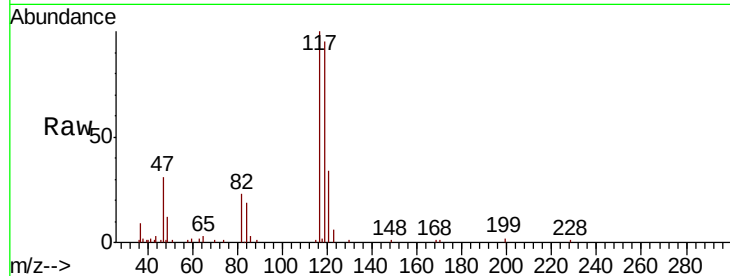
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	117	Resp:	68828
Ion	Ratio	Lower	Upper
117	100		
119	95.2	77.3	115.9
121	33.7	25.5	38.3

Manual Integrations
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MMDadoda
10/18/2019 3:05:00 PM



#36

Benzene

Concen: 0.366 ppbv

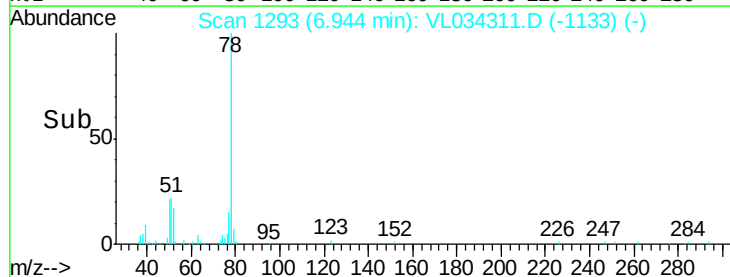
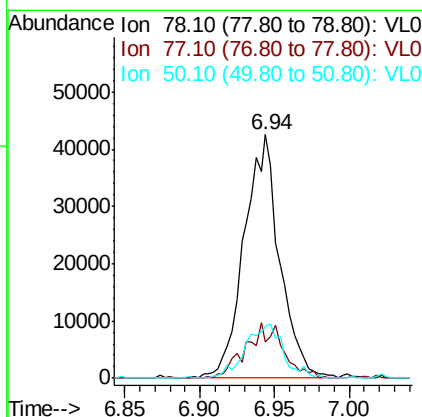
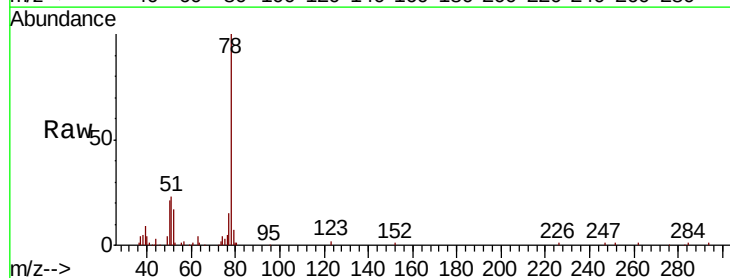
RT: 6.94 min Scan# 1293

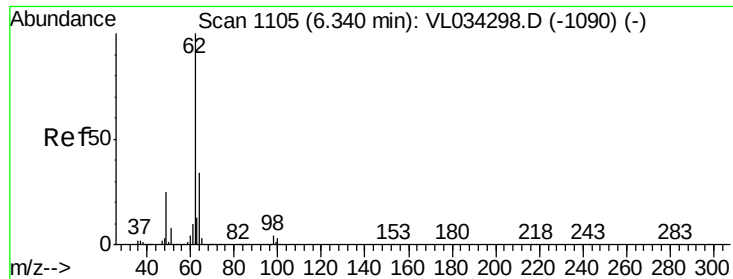
Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion:	78	Resp:	70389
Ion	Ratio	Lower	Upper
78	100		
77	14.8	19.0	28.4#
50	21.4	18.6	27.8





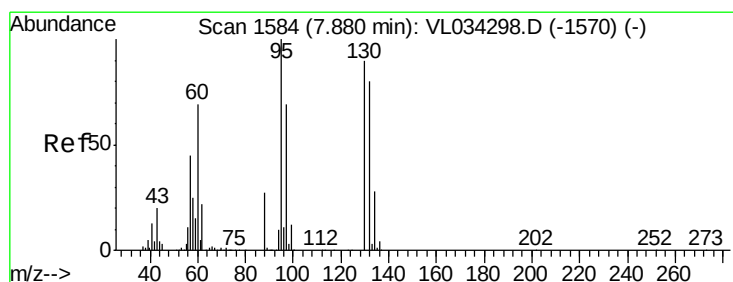
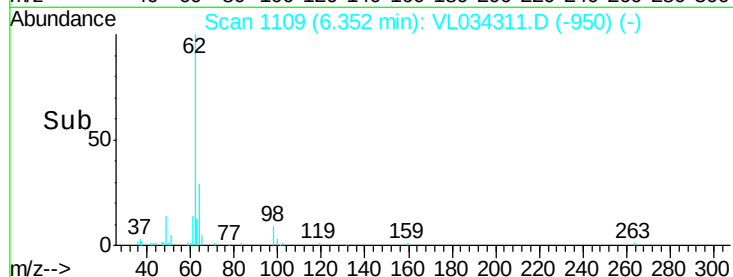
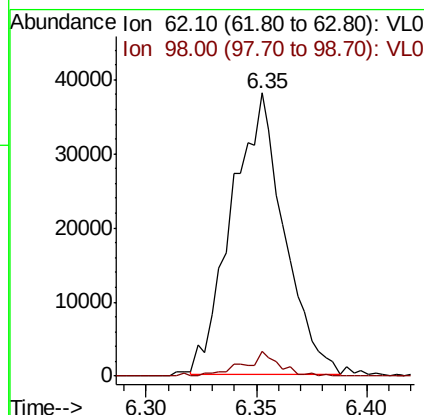
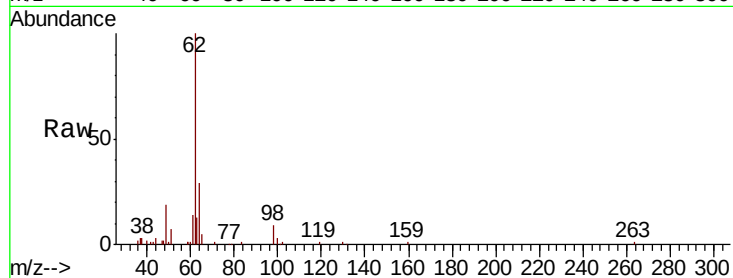
#37
 1,2-Dichloroethane
 Concen: 0.435 ppbv
 RT: 6.35 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
62	100		
98	6.1	3.8	5.6#

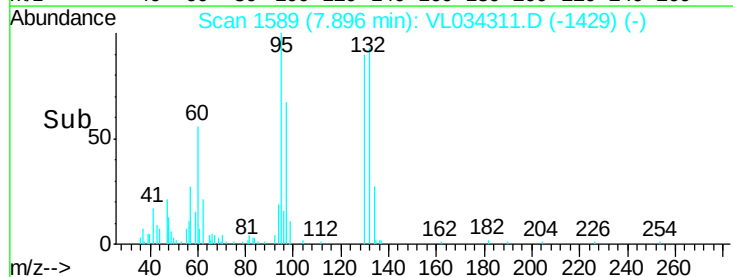
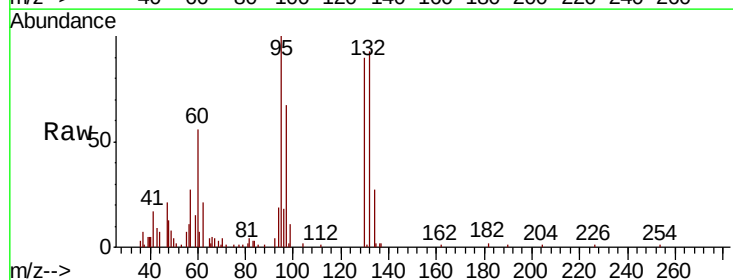
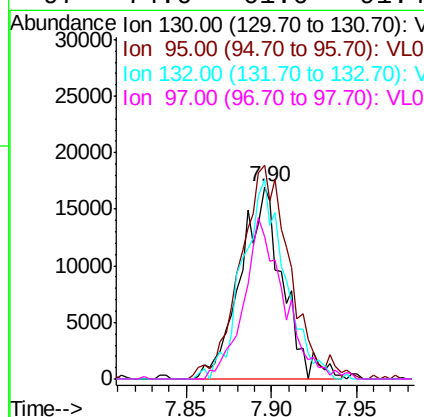
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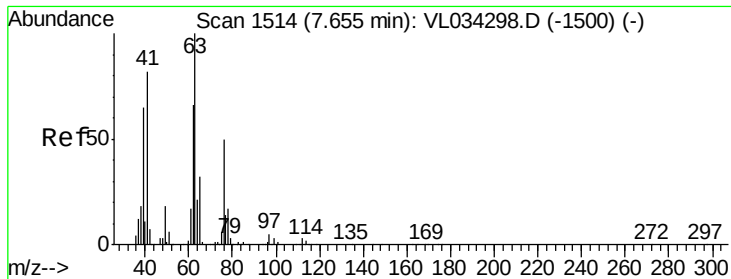
MMDadoda
 10/18/2019 3:05:00 PM



#38
 Trichloroethene
 Concen: 0.382 ppbv m
 RT: 7.90 min Scan# 1589
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
130	100		
95	110.9	88.6	132.8
132	103.4	71.2	106.8
97	74.0	61.0	91.4





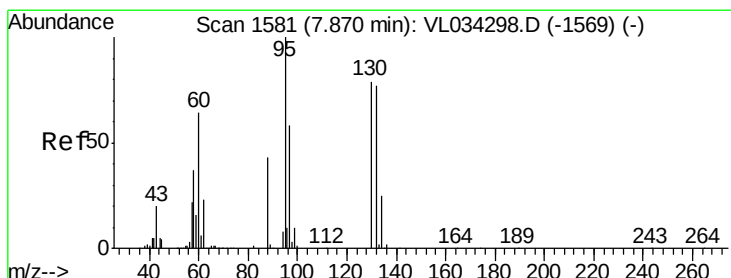
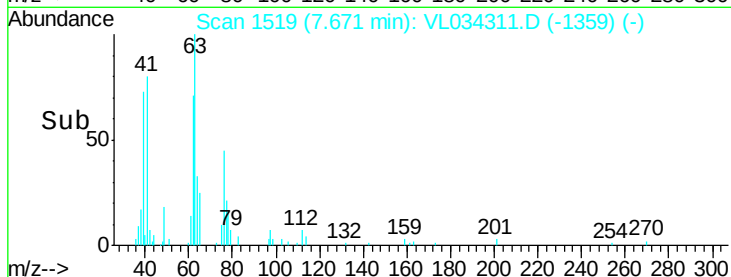
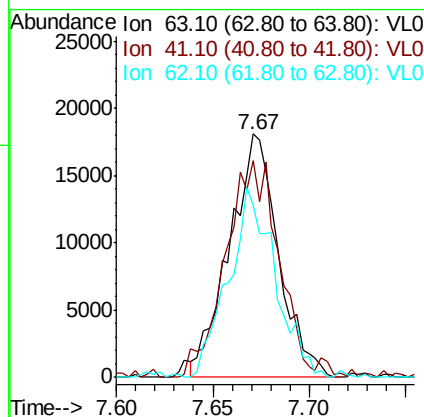
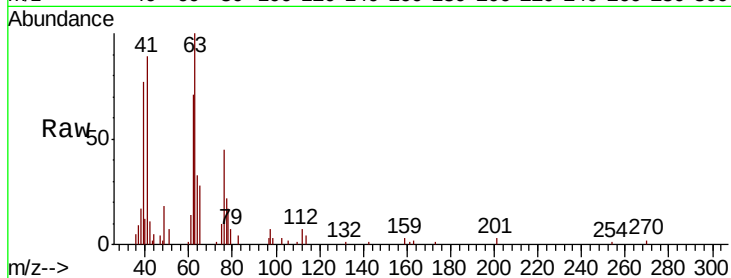
#39
 1,2-Dichloropropane
 Concen: 0.386 ppbv
 RT: 7.67 min Scan# 1519
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
63	100		
41	87.0	65.6	98.4
62	68.2	53.0	79.6

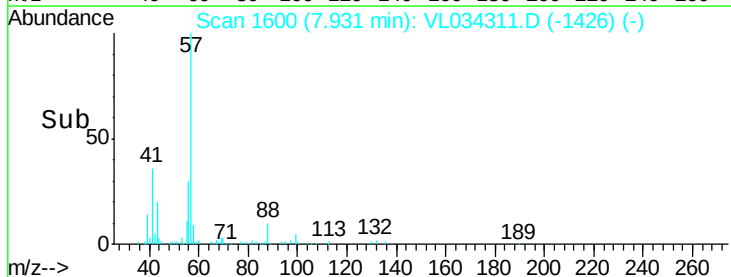
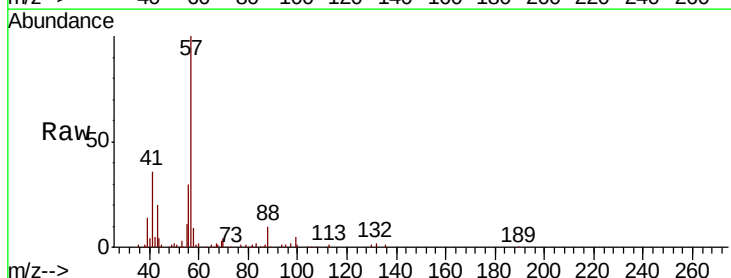
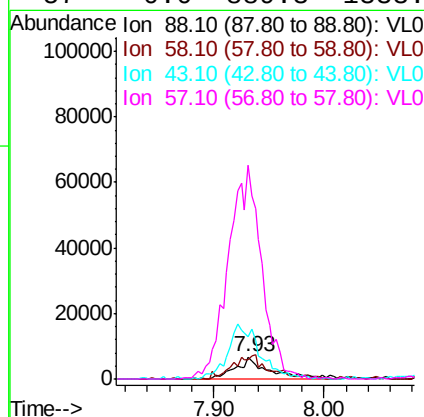
Manual Integrations
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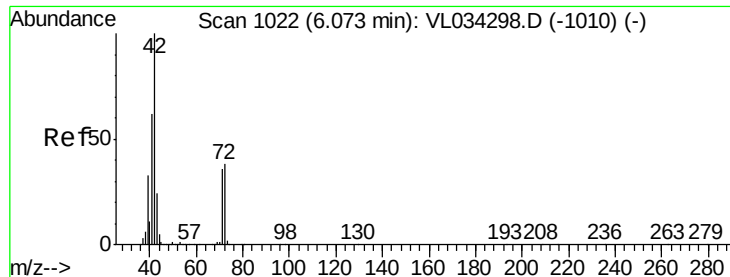
MMDadoda
 10/18/2019 3:05:00 PM



#40
 1,4-Dioxane
 Concen: 0.491 ppbv m
 RT: 7.93 min Scan# 1600
 Delta R.T. 0.06 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	110.3	165.5#
43	239.1	228.1	342.1
57	0.0	889.3	1333.9#





#41

Tetrahydrofuran

Concen: 0.307 ppbv m

RT: 6.11 min Scan# 1034

Delta R.T. 0.04 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

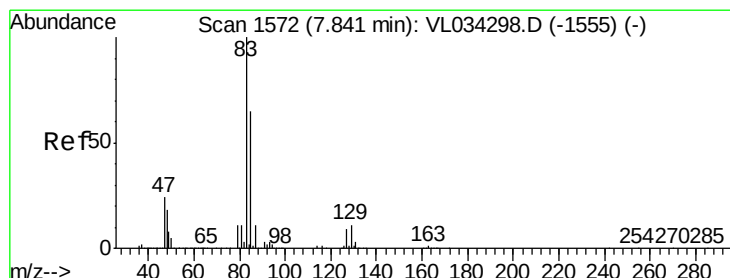
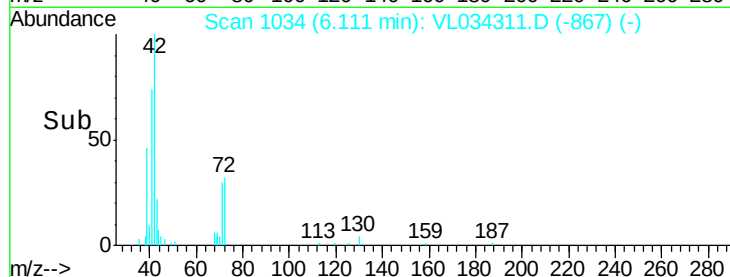
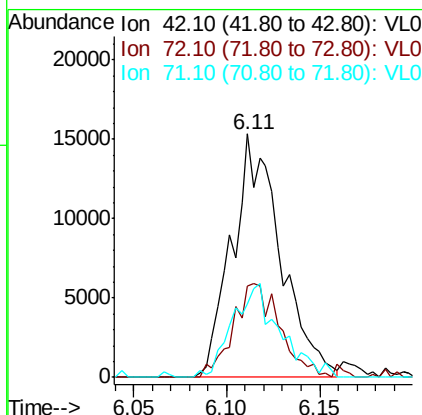
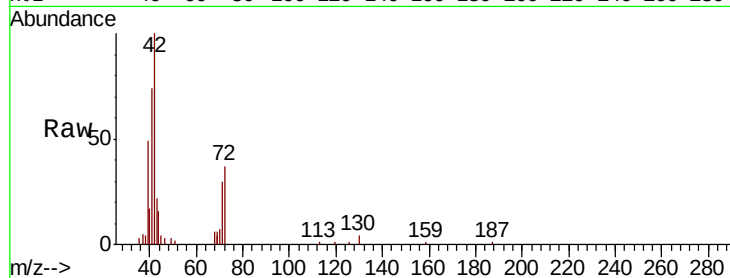
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.0	42.0#
71	0.0	27.3	40.9#

Manual Integrations
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MMDadoda
10/18/2019 3:05:00 PM



#42

Bromodichloromethane

Concen: 0.399 ppbv

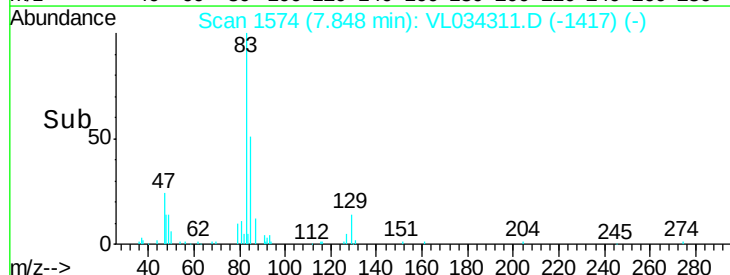
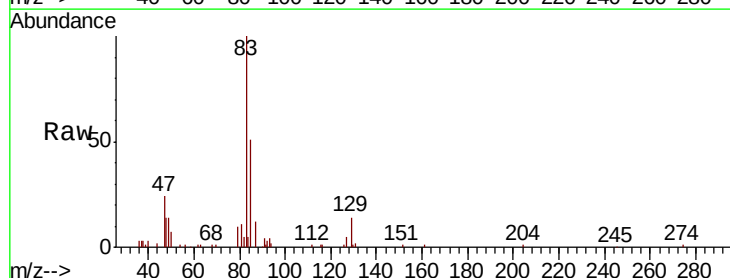
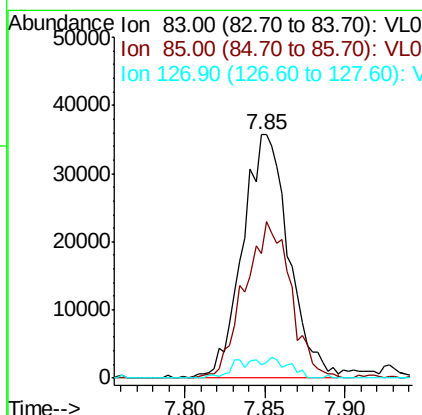
RT: 7.85 min Scan# 1574

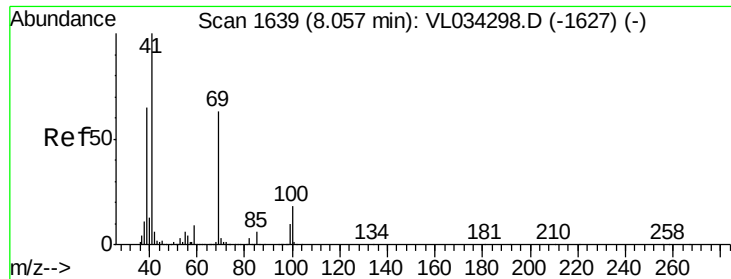
Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
83	100		
85	51.2	51.8	77.6#
127	5.3	7.0	10.6#





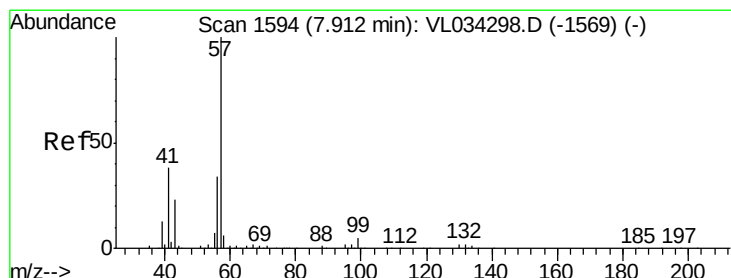
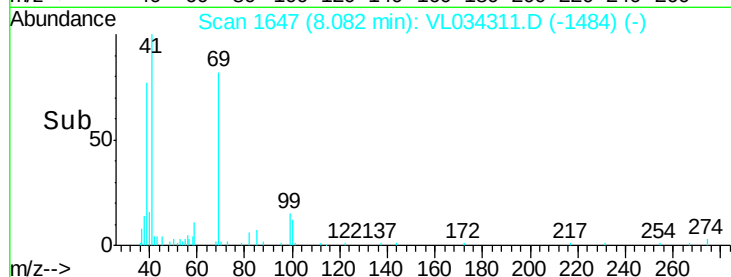
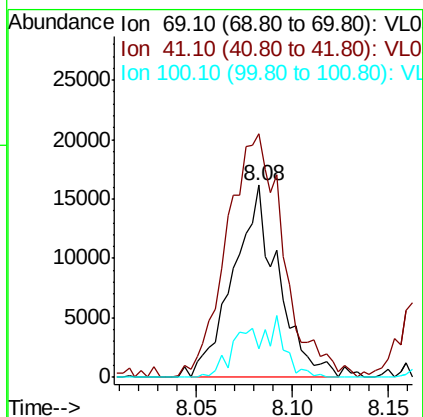
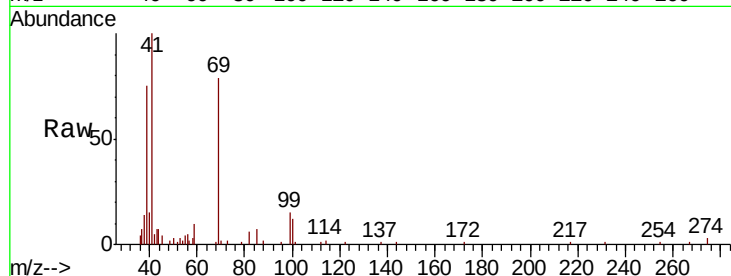
#43
Methyl Methacrylate
Concen: 0.329 ppbv m
RT: 8.08 min Scan# 1647
Delta R.T. 0.03 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	161.1	132.1	198.1	
100	0.0	23.2	34.8	

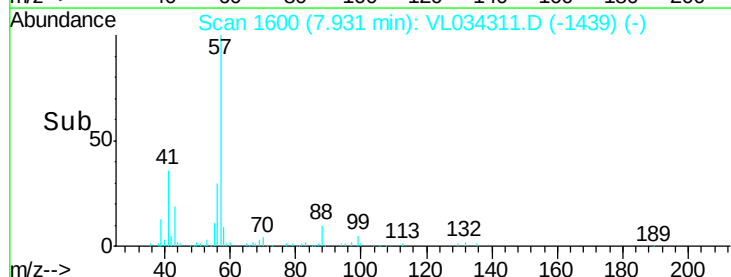
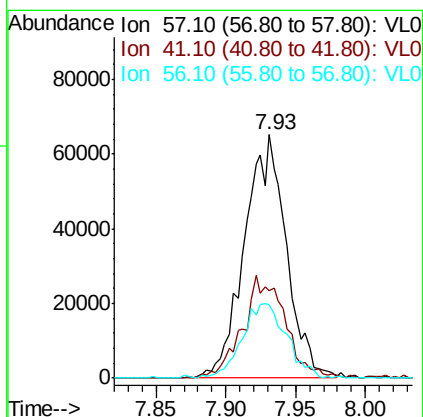
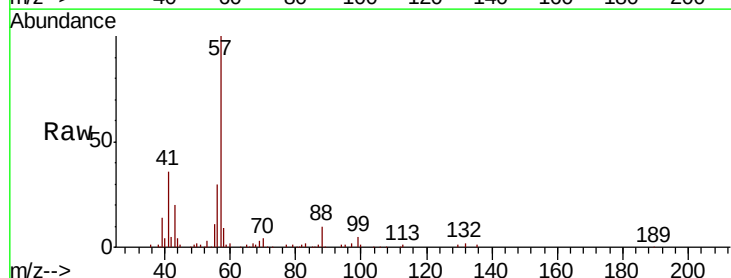
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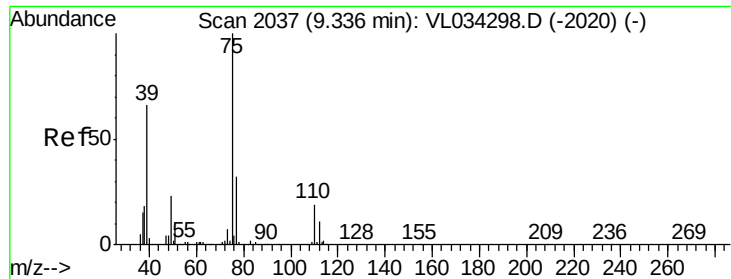
MMDadoda
10/18/2019 3:05:00 PM



#44
2,2,4-Trimethylpentane
Concen: 0.382 ppbv m
RT: 7.93 min Scan# 1600
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	43.4	29.3	43.9	
56	0.0	25.3	37.9	





#45

t-1,3-Dichloropropene

Concen: 0.300 ppbv m

RT: 9.35 min Scan# 2041

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 75 Resp: 29021

Ion Ratio Lower Upper

75 100

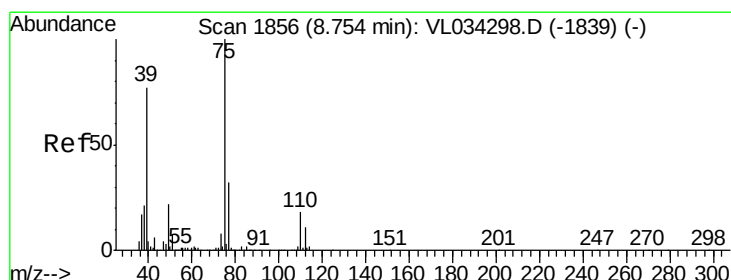
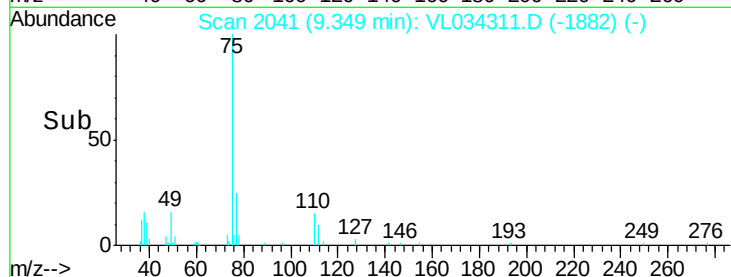
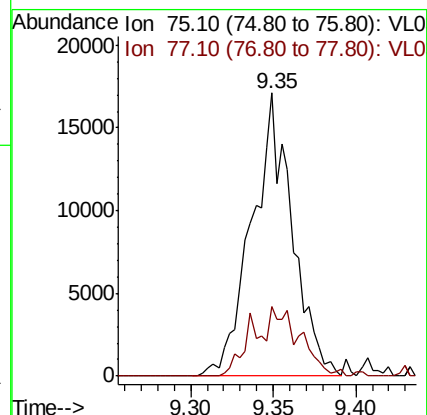
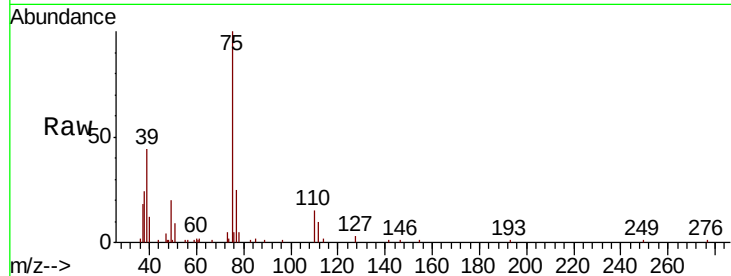
77 24.7 25.6 38.4#

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#46

cis-1,3-Dichloropropene

Concen: 0.290 ppbv m

RT: 8.77 min Scan# 1862

Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

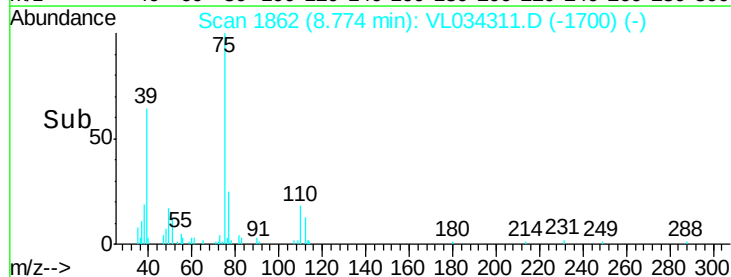
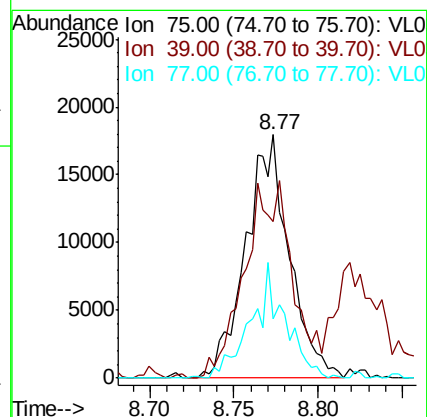
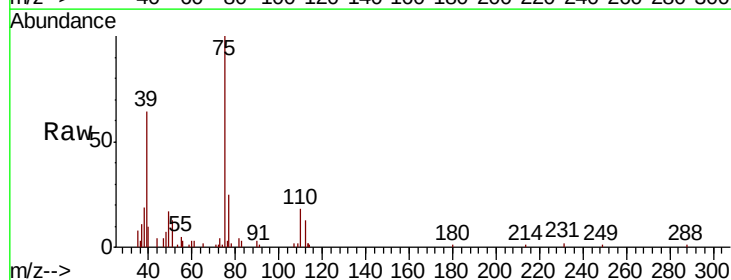
Tgt Ion: 75 Resp: 32200

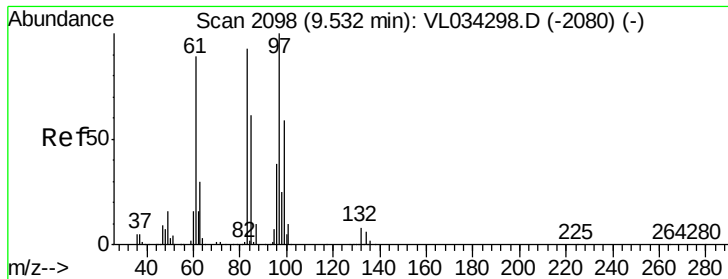
Ion Ratio Lower Upper

75 100

39 64.5 61.2 91.8

77 24.6 25.9 38.9#





#47

1,1,2-Trichloroethane

Concen: 0.401 ppbv

RT: 9.55 min Scan# 2102

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

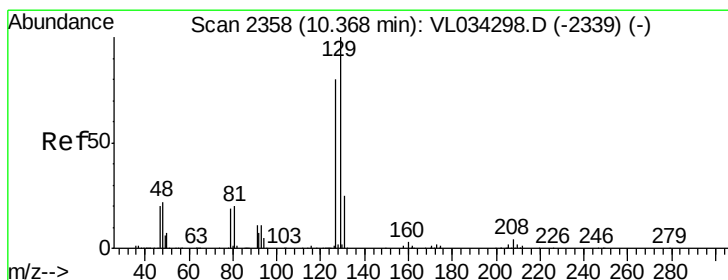
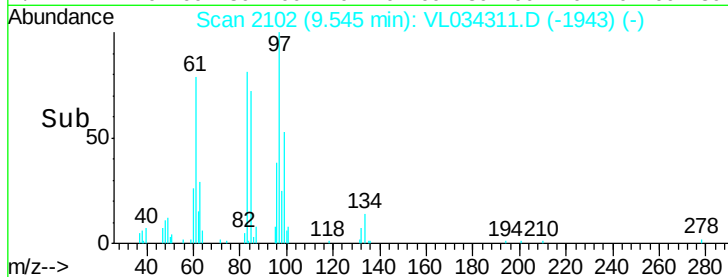
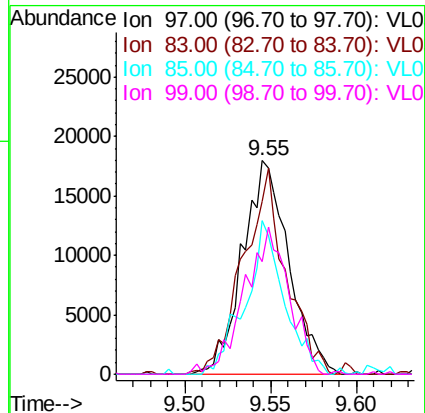
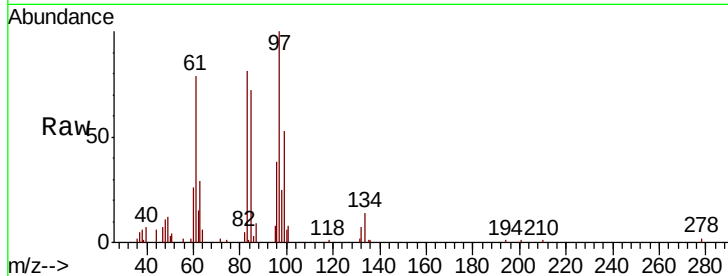
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	97	Resp:	33575
Ion	Ratio	Lower	Upper
97	100		
83	79.7	74.2	111.2
85	71.8	48.6	73.0
99	51.9	47.0	70.6

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#48

Dibromochloromethane

Concen: 0.375 ppbv m

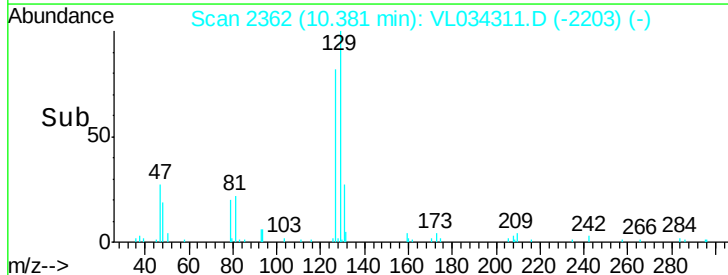
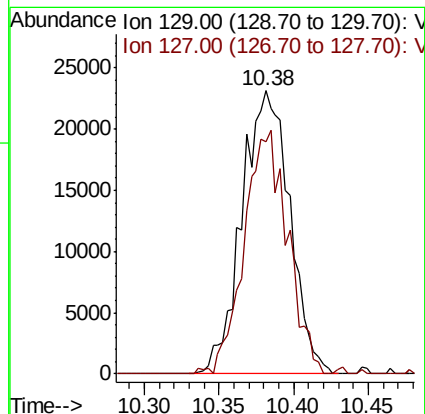
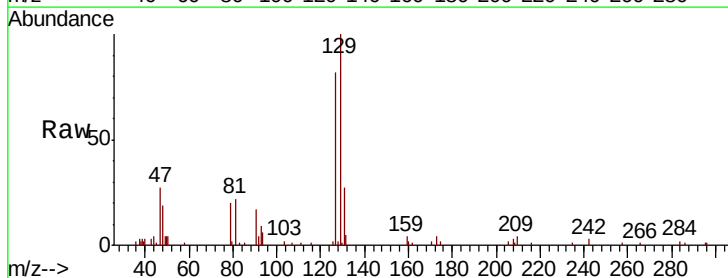
RT: 10.38 min Scan# 2362

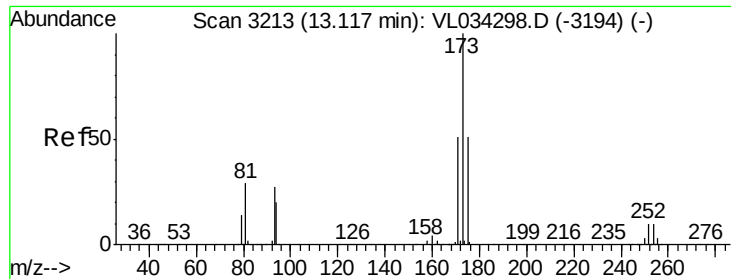
Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion:	129	Resp:	51561
Ion	Ratio	Lower	Upper
129	100		
127	78.6	39.7	119.1





#49

Bromoform

Concen: 0.354 ppbv m

RT: 13.13 min Scan# 3218

Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

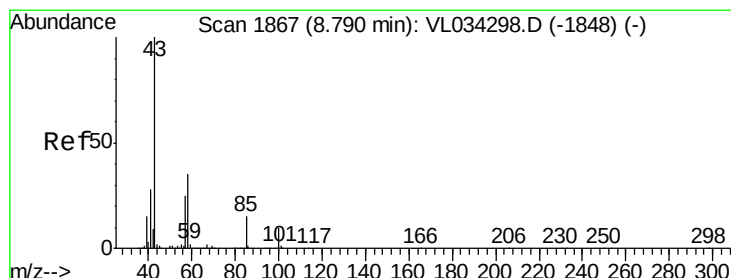
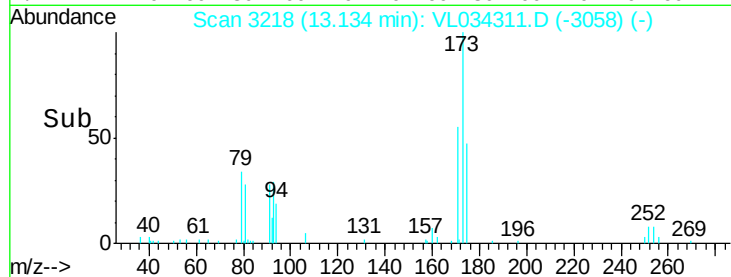
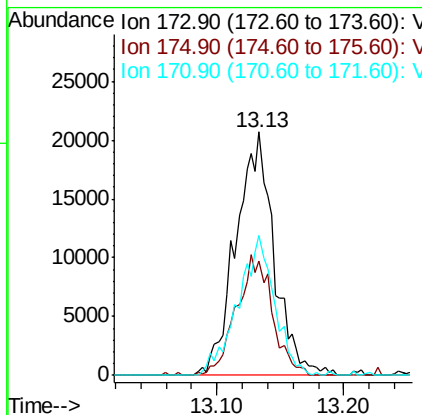
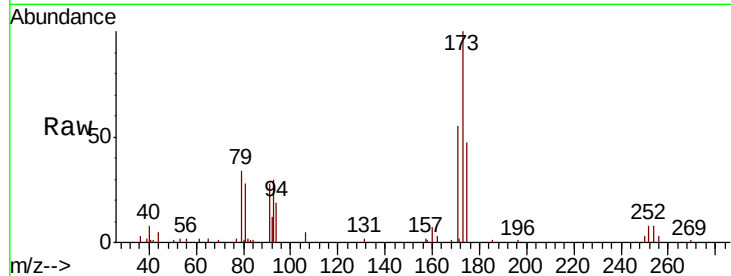
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:173 Resp: 43154
 Ion Ratio Lower Upper
 173 100
 175 0.0 39.8 59.6#
 171 55.0 41.8 62.6

Manual Integrations
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#50

4-Methyl-2-Pentanone

Concen: 0.357 ppbv m

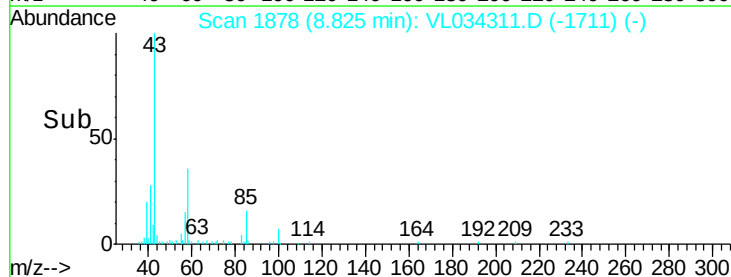
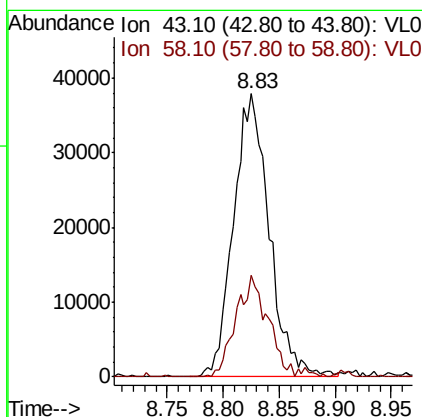
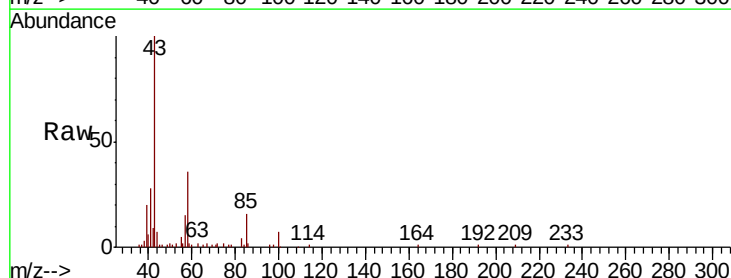
RT: 8.83 min Scan# 1878

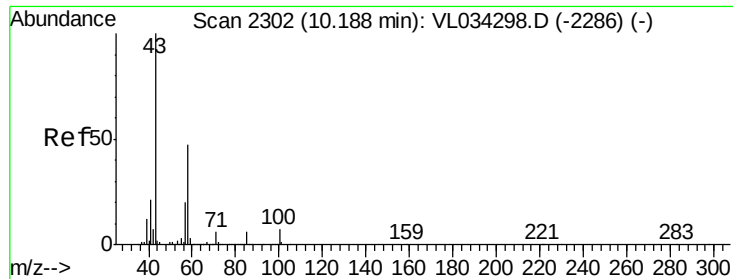
Delta R.T. 0.04 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion: 43 Resp: 83577
 Ion Ratio Lower Upper
 43 100
 58 33.9 27.6 41.4





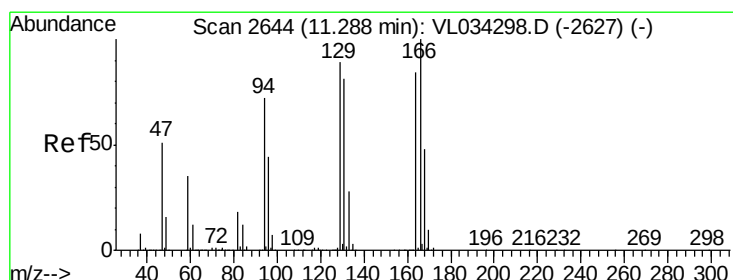
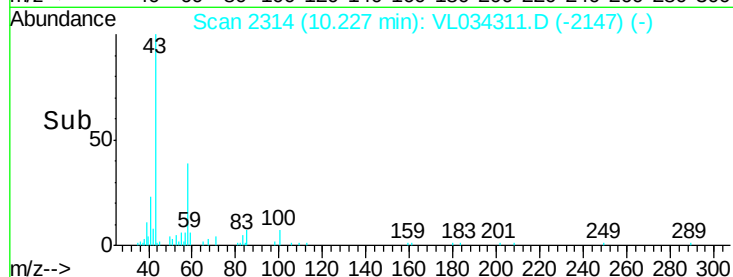
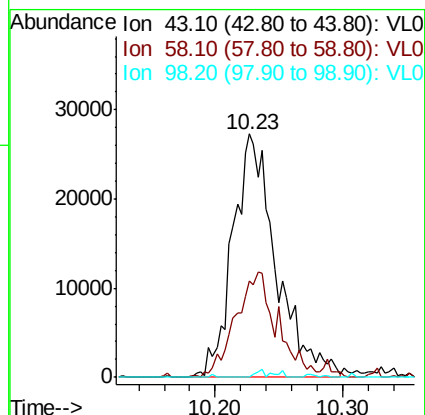
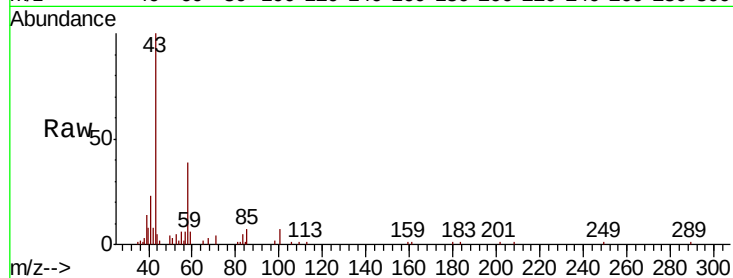
#51
2-Hexanone
Concen: 0.334 ppbv m
RT: 10.23 min Scan# 2314
Delta R.T. 0.04 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	37.0	55.6#
98	0.0	0.2	0.2#

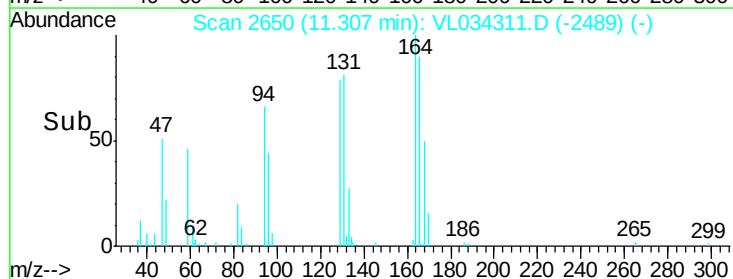
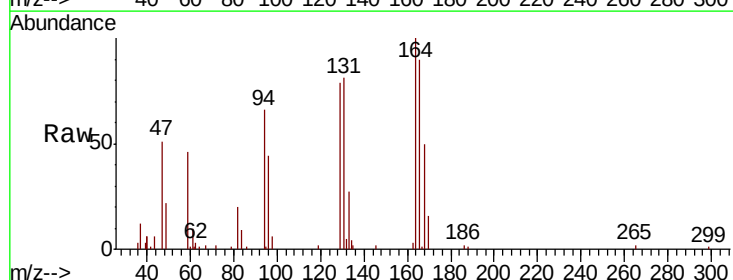
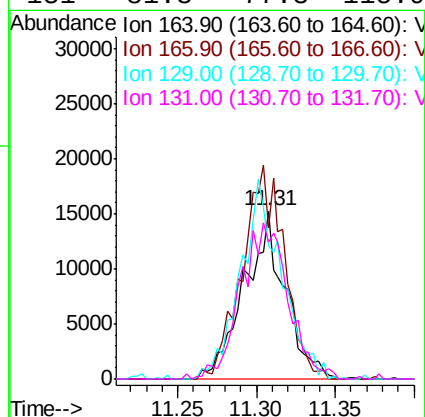
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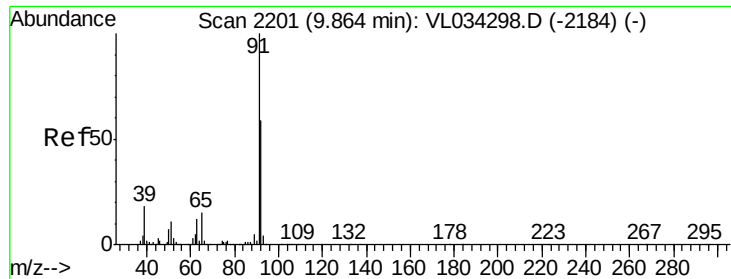
MMDadoda
10/18/2019 3:05:00 PM



#52
Tetrachloroethene
Concen: 0.367 ppbv m
RT: 11.31 min Scan# 2650
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	89.6	95.3	142.9#
129	79.4	84.5	126.7#
131	81.3	77.3	115.9





#53

Toluene

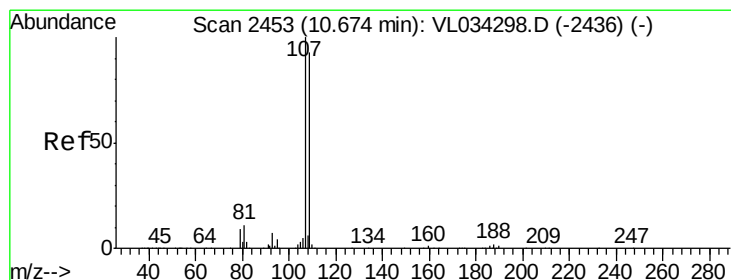
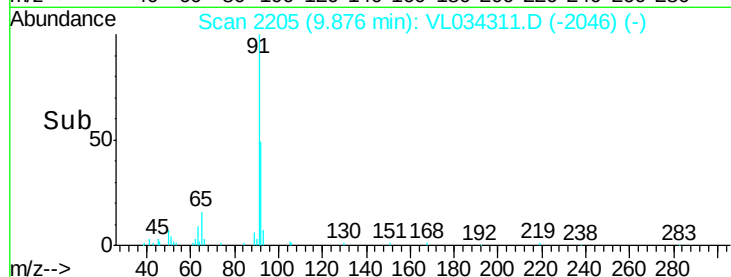
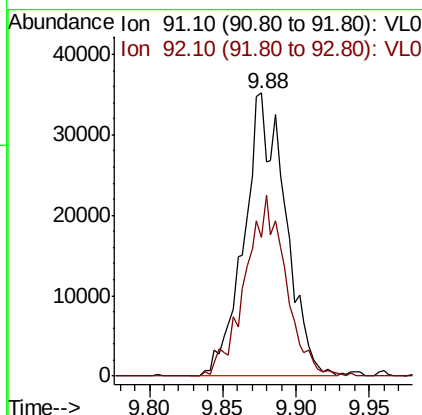
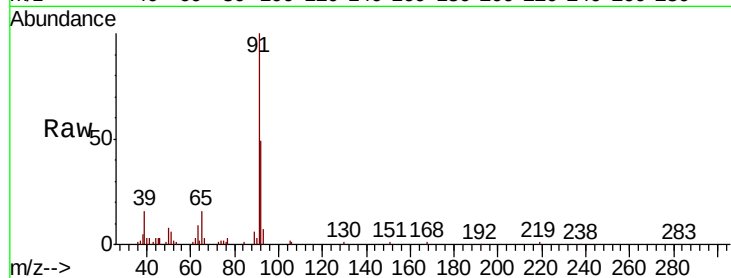
Concen: 0.324 ppbv m
RT: 9.88 min Scan# 2205
Delta R.T. 0.01 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	91	Resp	68618
Ion Ratio	100	Lower	Upper
91	100		
92	62.3	48.4	72.6

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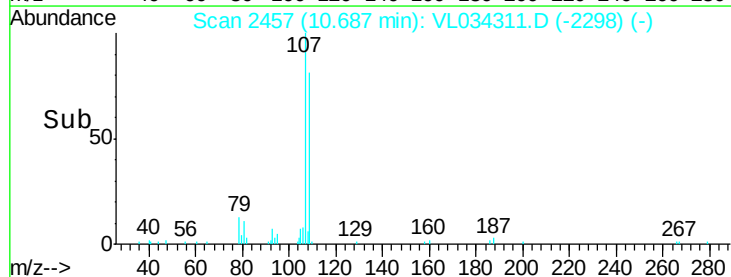
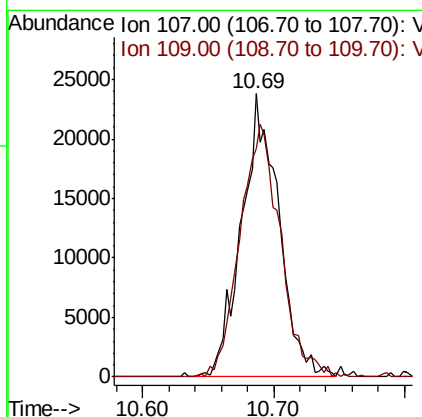
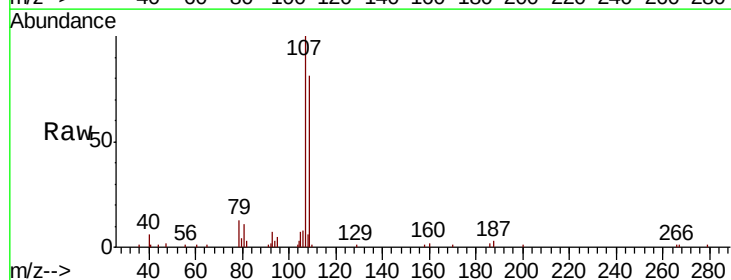


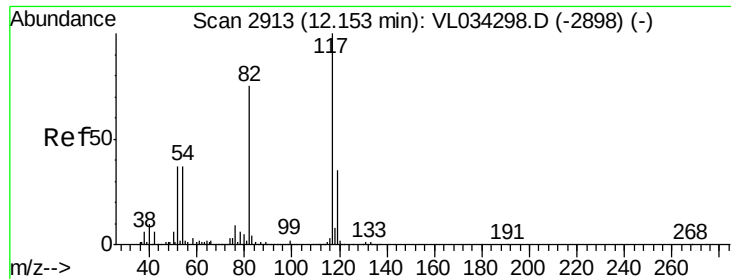
#54

1,2-Dibromoethane

Concen: 0.377 ppbv m
RT: 10.69 min Scan# 2457
Delta R.T. 0.01 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	107	Resp	46851
Ion Ratio	100	Lower	Upper
107	100		
109	80.6	74.6	112.0





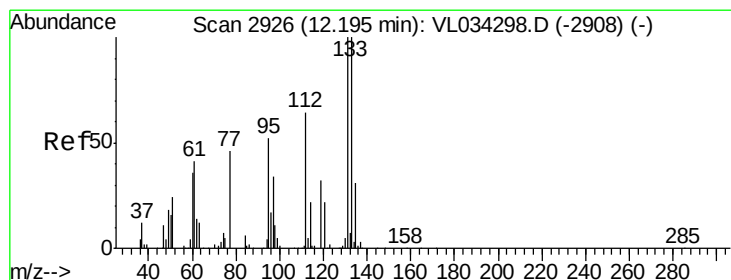
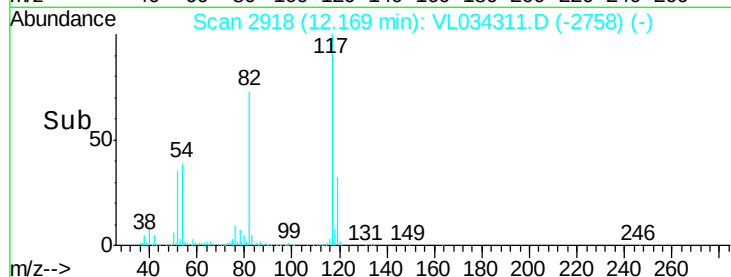
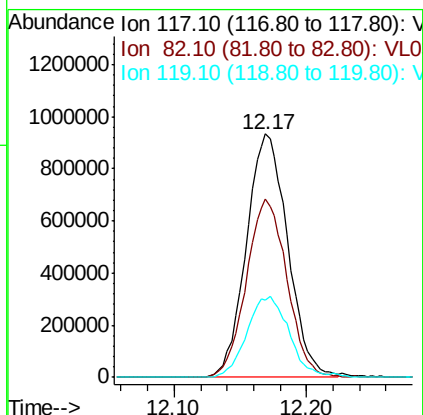
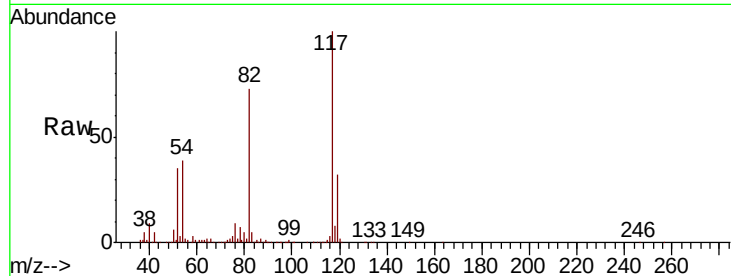
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.3	55.5	83.3
119	34.4	26.5	39.7

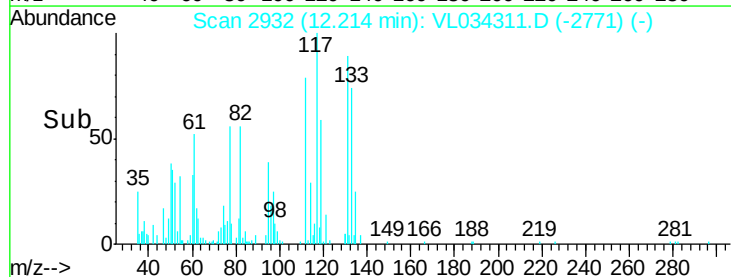
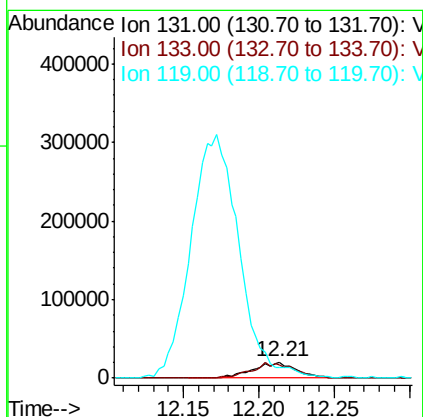
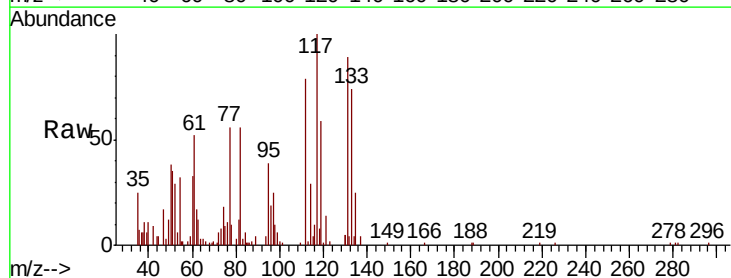
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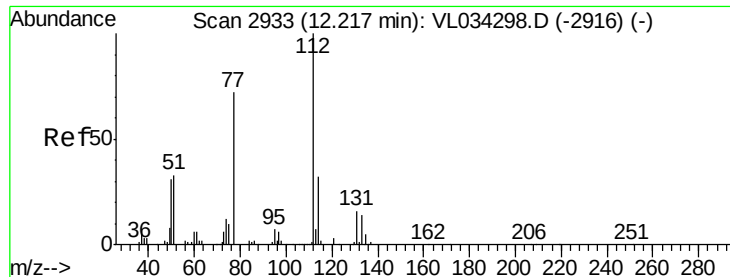
MMDadoda
10/18/2019 3:05:00 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.433 ppbv m
RT: 12.21 min Scan# 2932
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
131	100		
133	0.0	77.1	115.7#
119	0.0	49.0	73.4#





#57

Chlorobenzene

Concen: 0.446 ppbv m

RT: 12.23 min Scan# 2937

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

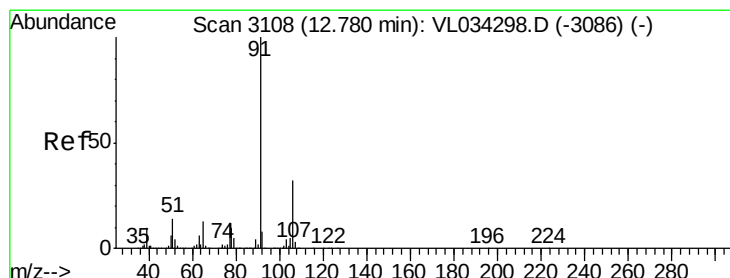
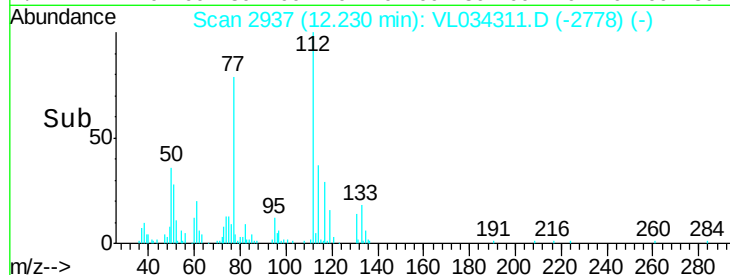
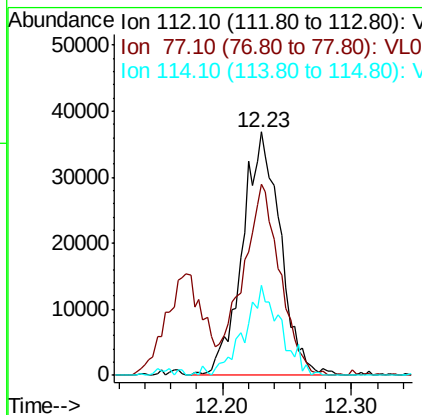
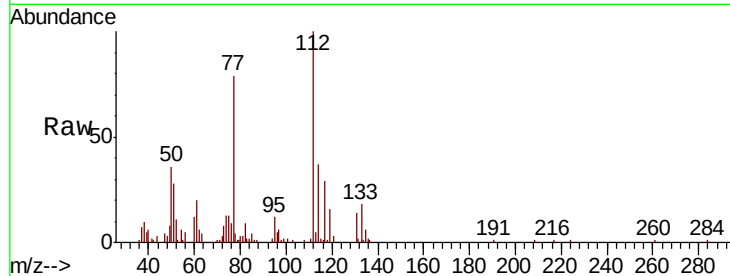
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	112	Resp:	75220
Ion Ratio	Lower	Upper	
112	100		
77	78.6	58.6	88.0
114	36.8	28.6	35.0#

Manual Integrations
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10/18/2019 3:05:00 PM



#58

Ethyl Benzene

Concen: 0.374 ppbv

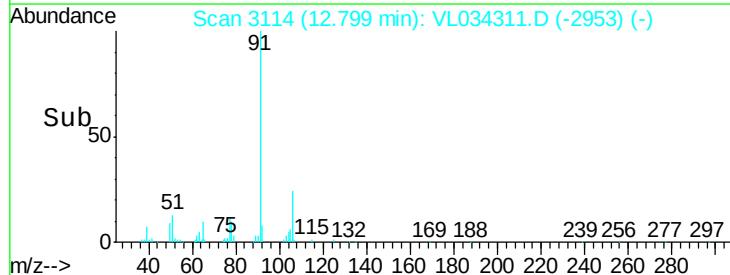
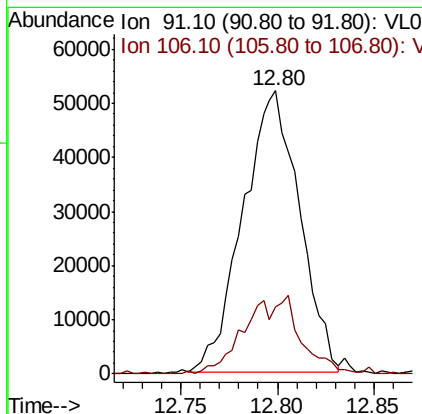
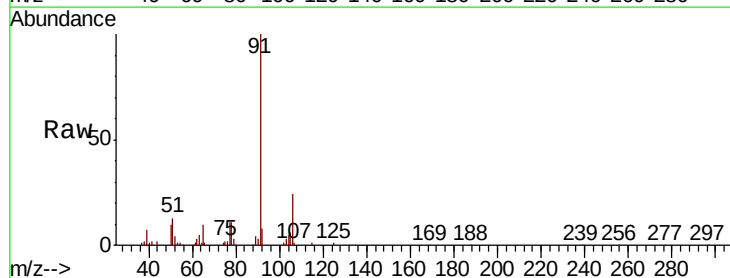
RT: 12.80 min Scan# 3114

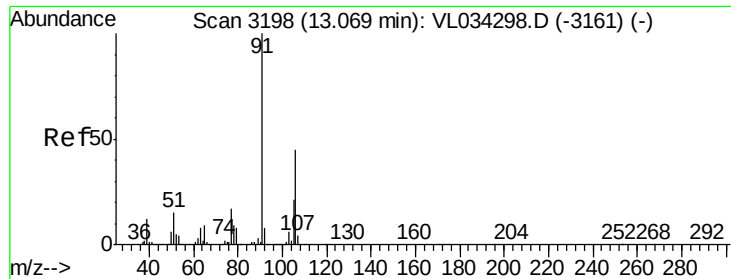
Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion:	91	Resp:	105525
Ion Ratio	Lower	Upper	
91	100		
106	23.1	25.3	37.9#





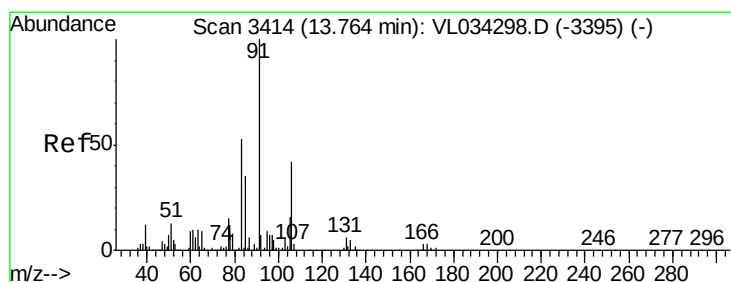
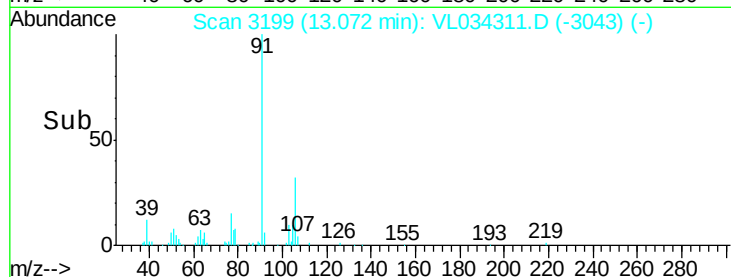
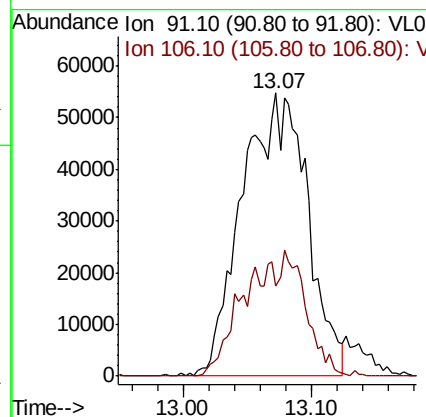
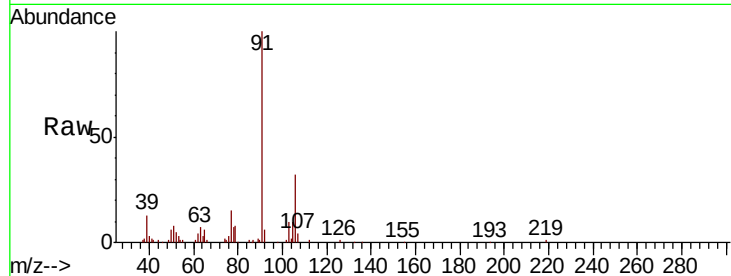
#59
m/p-Xylene
Concen: 0.792 ppbv m
RT: 13.07 min Scan# 3199
Delta R.T. 0.00 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Instrument :
MSVOA_L
ClientSampleId :
LOD-MDL-AIR-01-QT4-2019

Tot Ion: 91 Resp: 193727
Ion Ratio Lower Upper
91 100
106 40.9 35.4 53.2

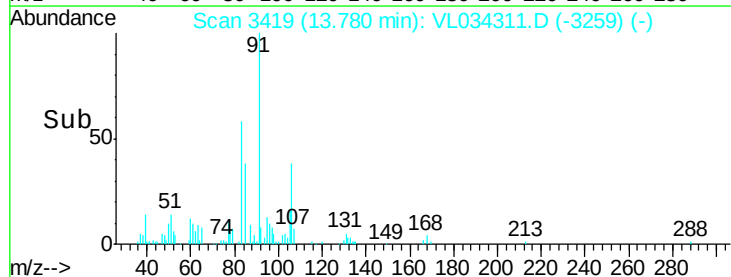
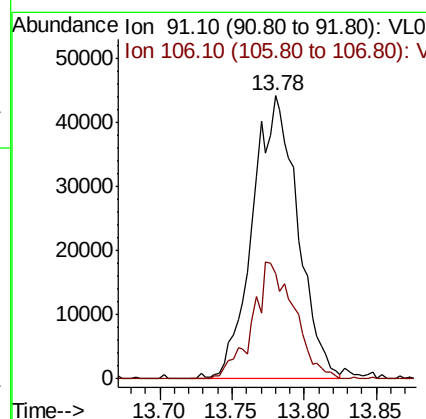
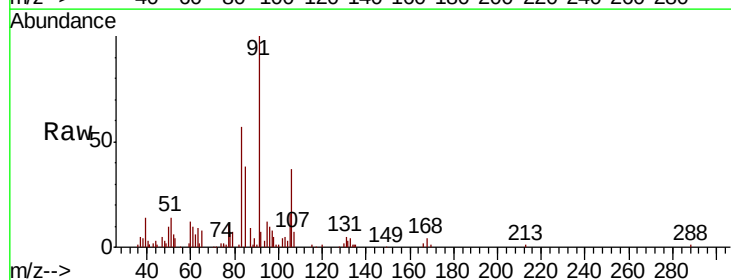
Manual Integrations
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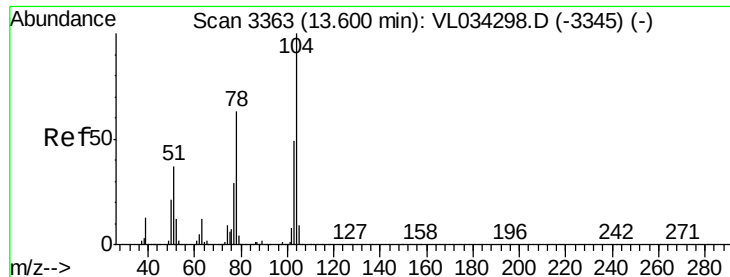
MMDadoda
10/18/2019 3:05:00 PM



#60
o-Xylene
Concen: 0.395 ppbv m
RT: 13.78 min Scan# 3419
Delta R.T. 0.02 min
Lab File: VL034311.D
Acq: 17 Oct 2019 00:01

Tgt Ion: 91 Resp: 96293
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.6#





#61

Stvrene

Concen: 0.304 ppbv m

RT: 13.62 min Scan# 3368

Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

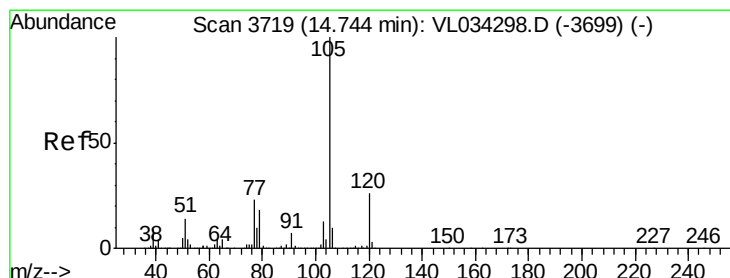
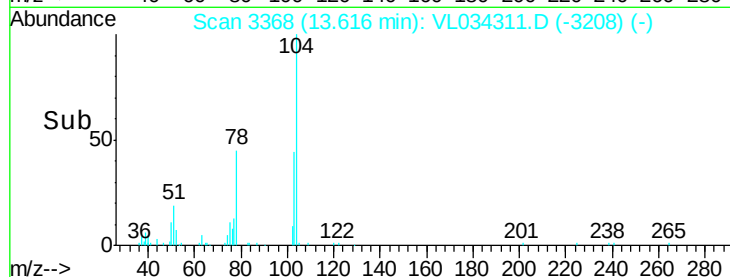
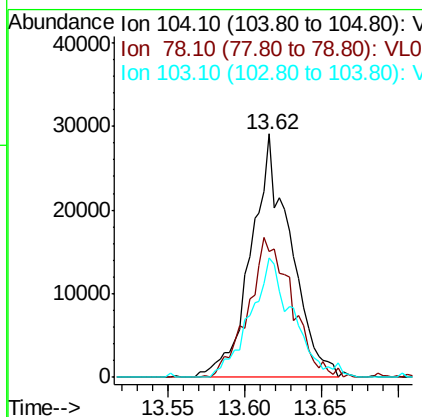
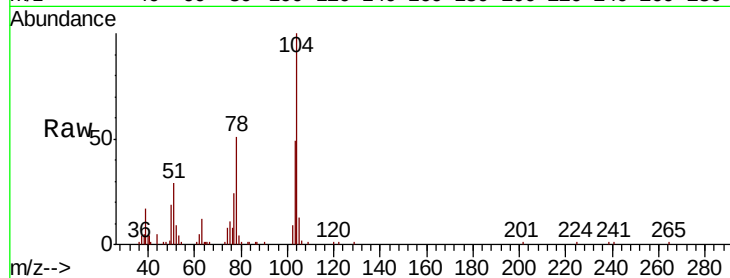
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	104	Resp:	52146
Ion Ratio	Lower	Upper	
104	100		
78	63.3	47.8	71.8
103	53.1	39.0	58.6

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#62

Isopropylbenzene

Concen: 0.398 ppbv

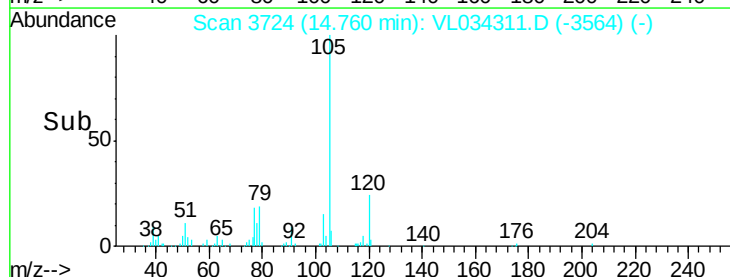
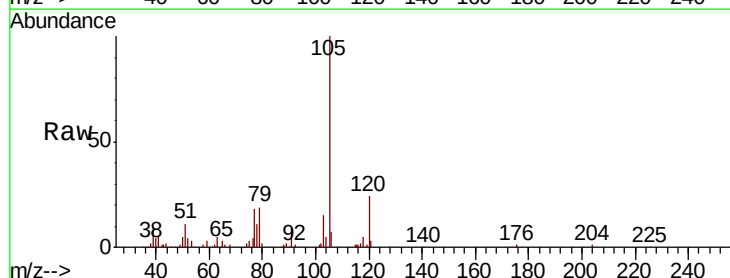
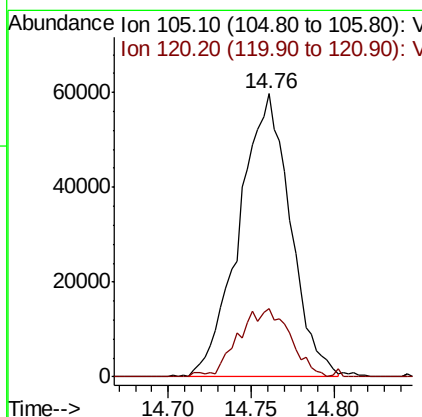
RT: 14.76 min Scan# 3724

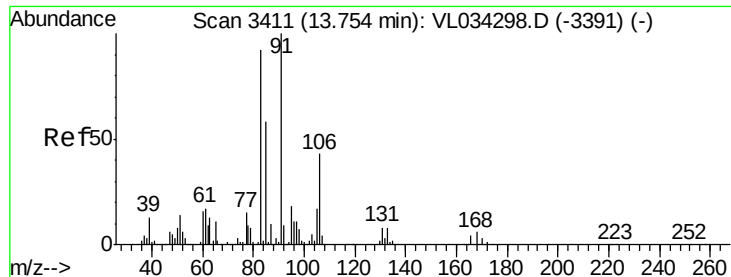
Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion:	105	Resp:	127841
Ion Ratio	Lower	Upper	
105	100		
120	24.8	20.8	31.2





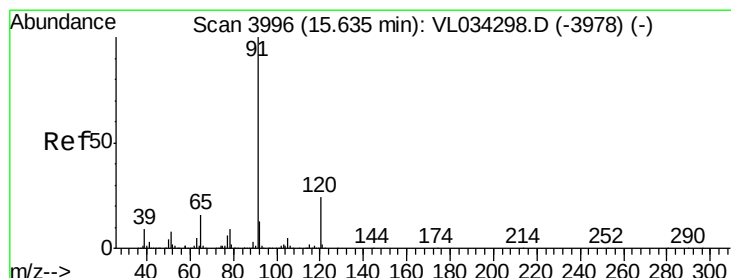
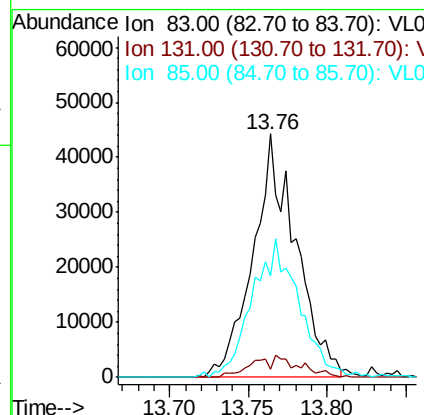
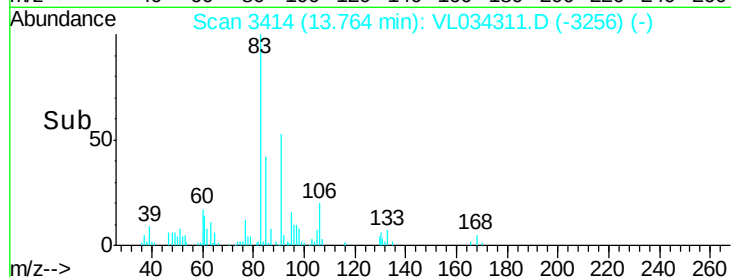
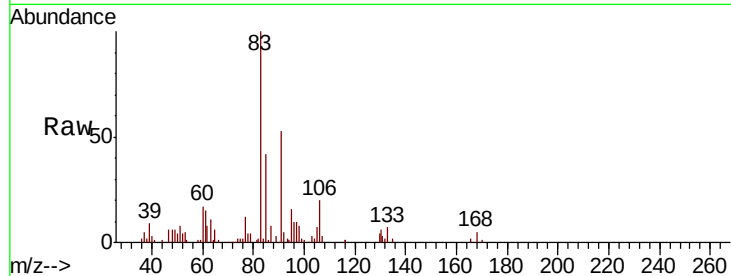
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.426 ppbv m
 RT: 13.76 min Scan# 3414
 Delta R.T. 0.01 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	83	Resp	83420
Ion Ratio	Lower	Upper	
83	100		
131	0.0	4.8	14.4#
85	0.0	32.5	97.4#

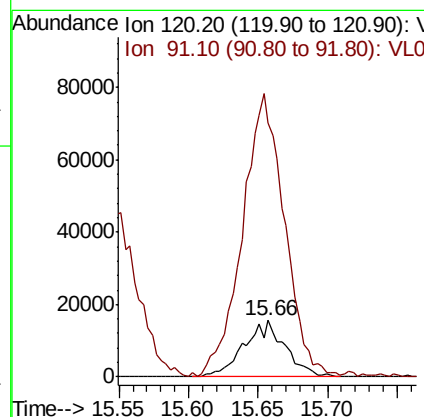
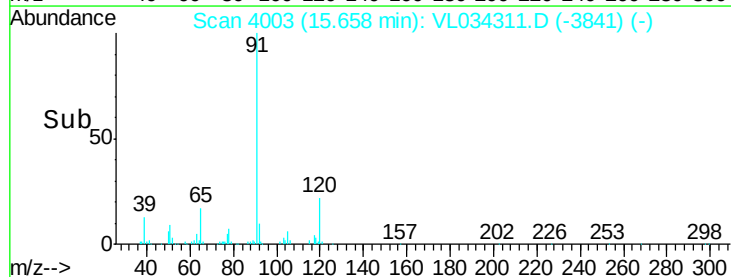
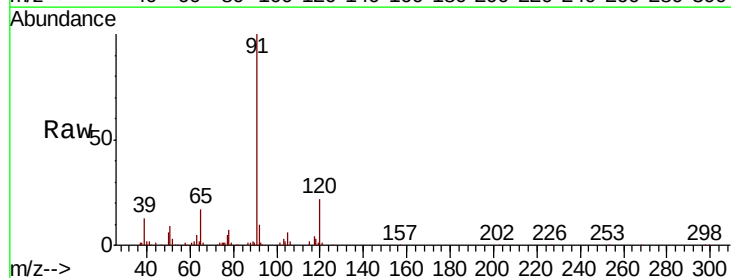
Manual Integrations
 APPROVED

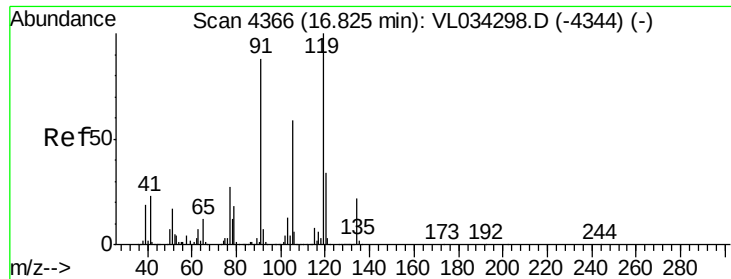
MMDadoda
 10/18/2019 3:05:00 PM



#64
 n-propylbenzene
 Concen: 0.387 ppbv m
 RT: 15.66 min Scan# 4003
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Tgt Ion	120	Resp	31951
Ion Ratio	Lower	Upper	
120	100		
91	527.8	374.9	562.3





#65

tert-Butylbenzene

Concen: 0.381 ppbv m

RT: 16.84 min Scan# 4370

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

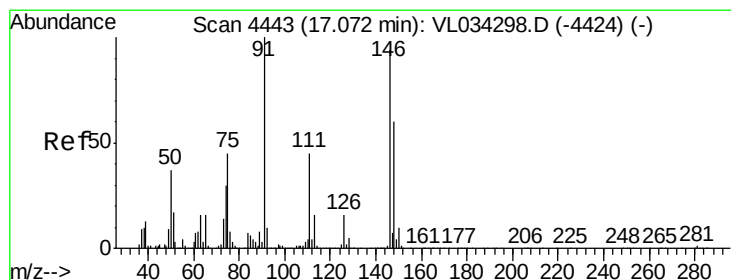
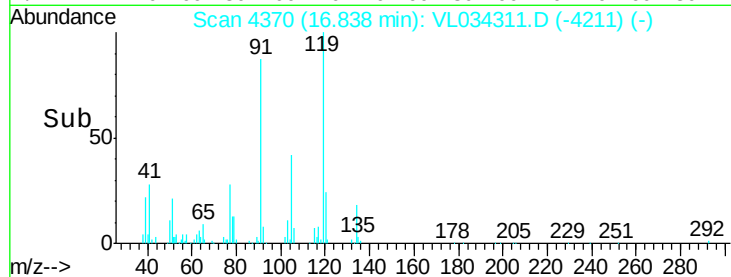
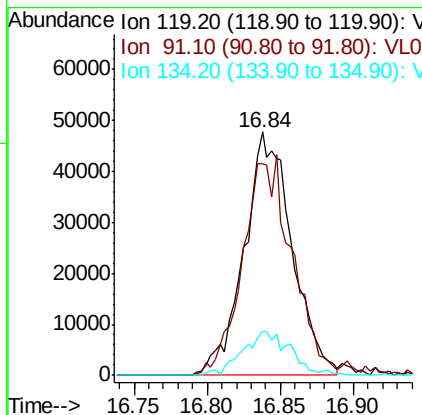
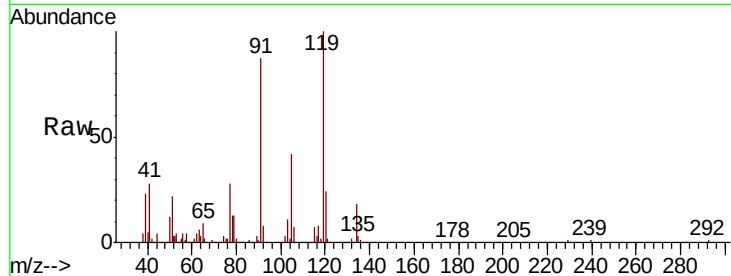
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	119	Resp:	108457
Ion Ratio	Lower	Upper	
119	100		
91	95.6	71.4	107.0
134	18.2	15.9	23.9

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#66

Benzyl Chloride

Concen: 0.295 ppbv m

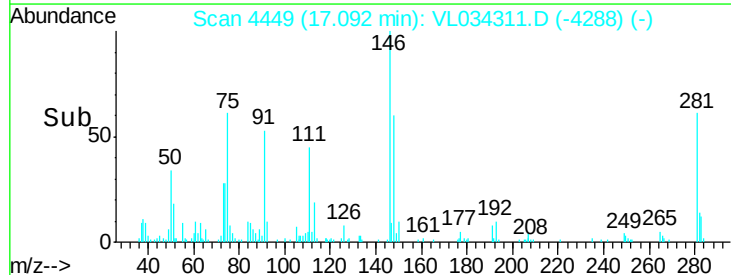
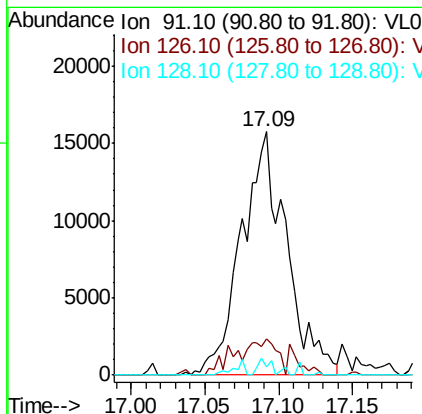
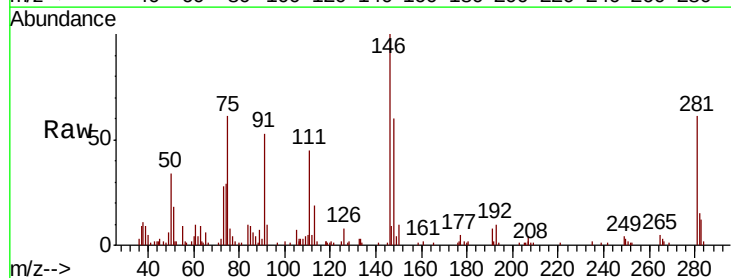
RT: 17.09 min Scan# 4449

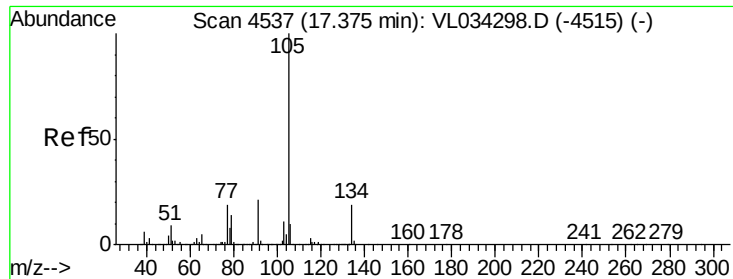
Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion:	91	Resp:	33250
Ion Ratio	Lower	Upper	
91	100		
126	17.0	12.9	19.3
128	2.6	4.3	6.5#





#67

sec-Butylbenzene

Concen: 0.361 ppbv

RT: 17.39 min Scan# 4543

Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion: 105 Resp: 144750

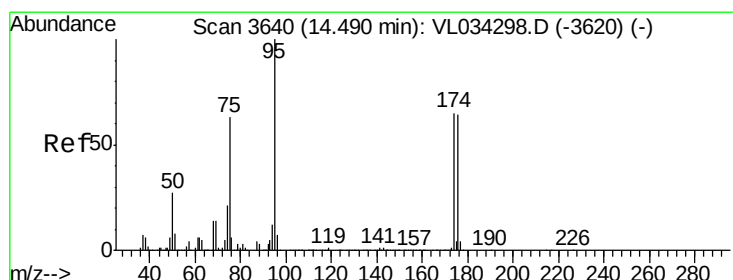
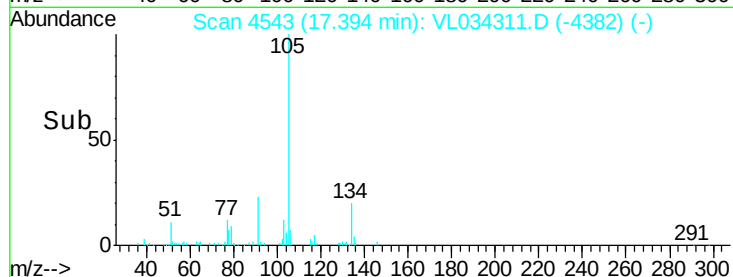
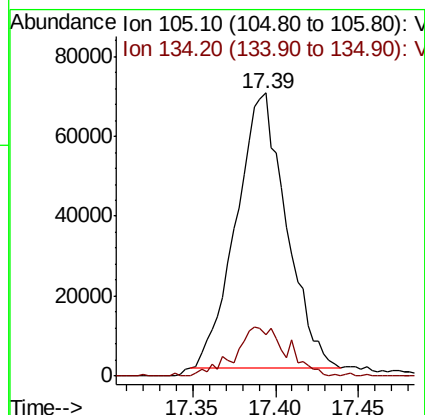
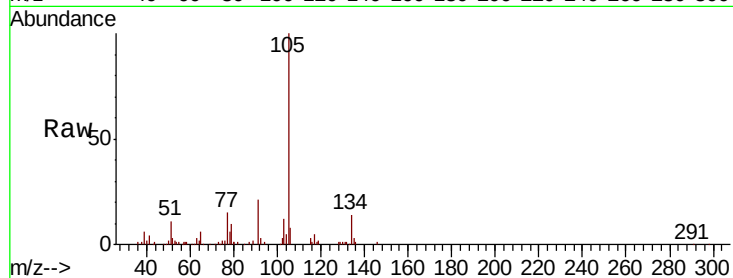
Ion Ratio Lower Upper

105 100

134 18.9 15.4 23.0

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#68

1-Bromo-4-Fluorobenzene

Concen: 10.438 ppbv

RT: 14.51 min Scan# 3645

Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

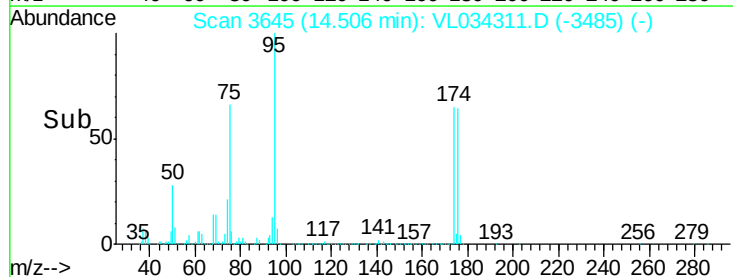
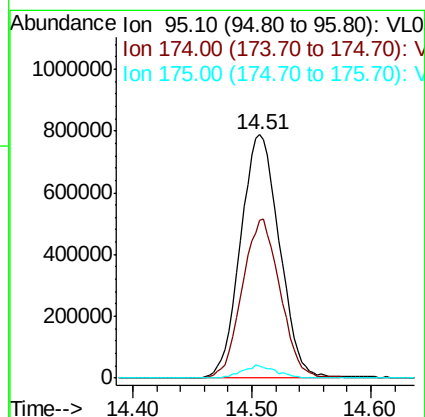
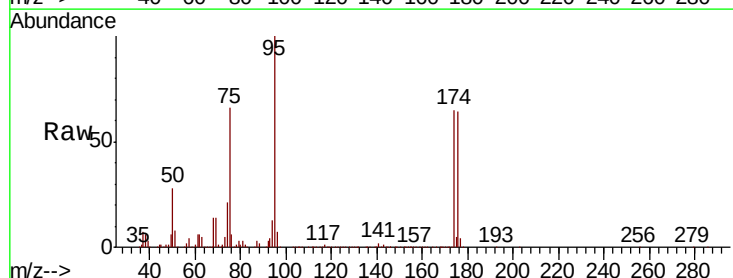
Tgt Ion: 95 Resp: 1785381

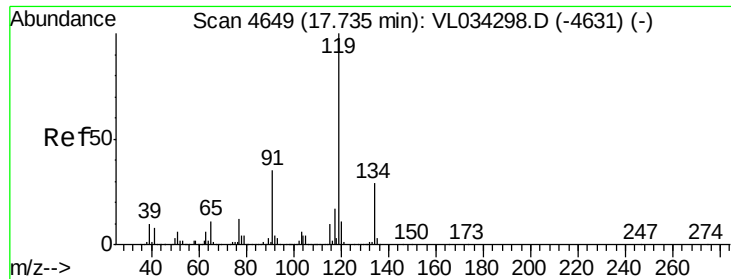
Ion Ratio Lower Upper

95 100

174 63.6 52.6 78.8

175 4.7 3.8 5.6





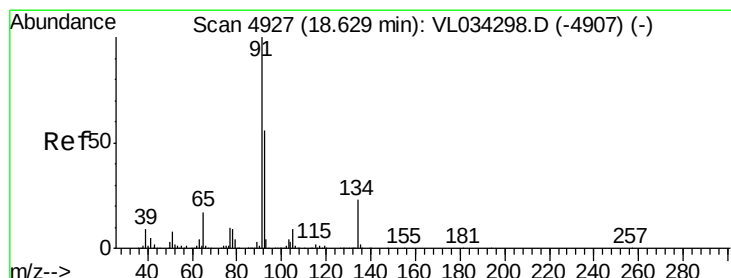
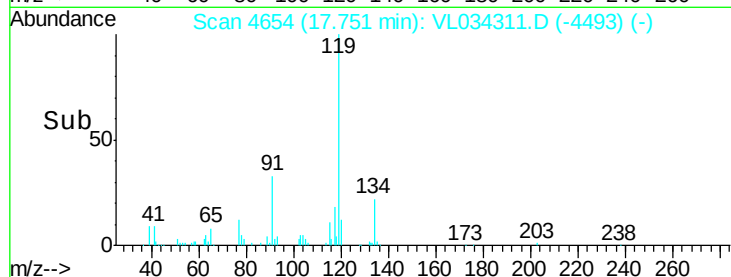
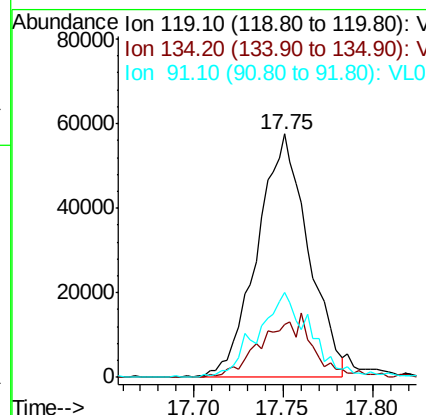
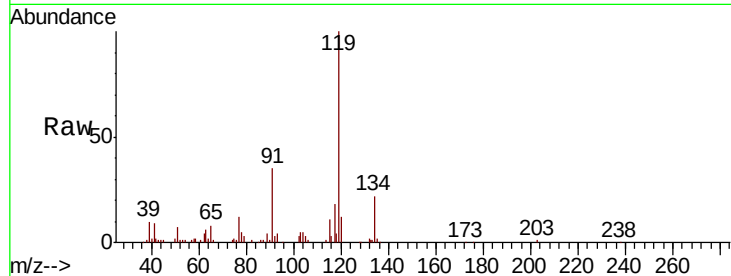
#69
 p-Isopropyltoluene
 Concen: 0.352 ppbv
 RT: 17.75 min Scan# 4654
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	115192		
134	26.1		21.3	31.9
91	36.7		26.6	39.8

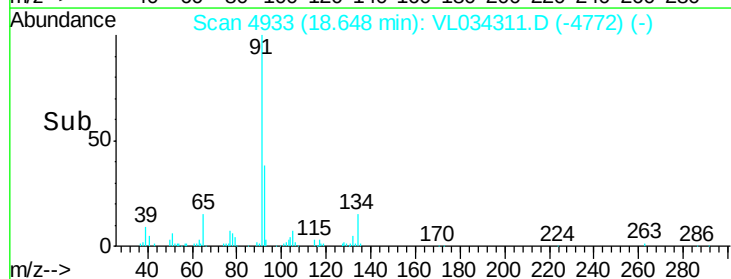
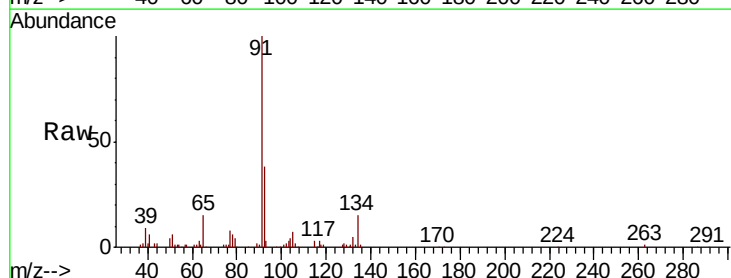
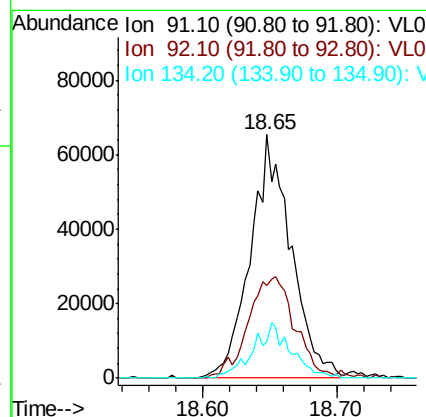
Manual Integrations
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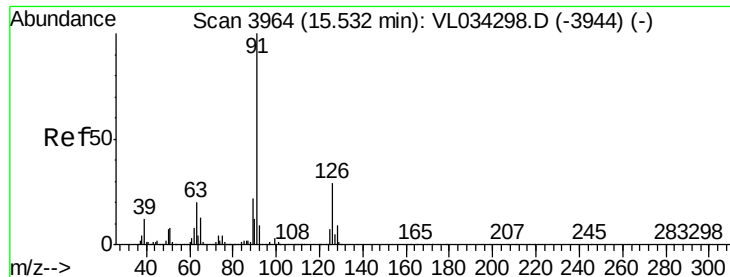
MMDadoda
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#70
 n-Butylbenzene
 Concen: 0.384 ppbv m
 RT: 18.65 min Scan# 4933
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	136777		
92	48.7		44.5	66.7
134	21.2		18.2	27.2





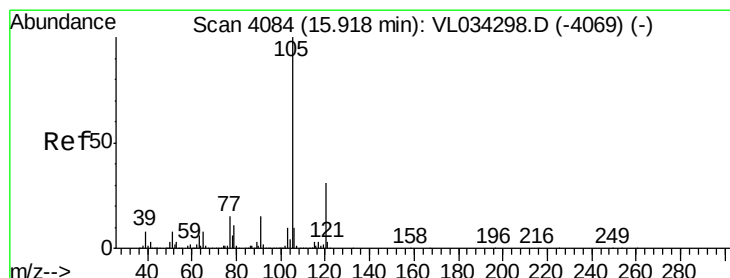
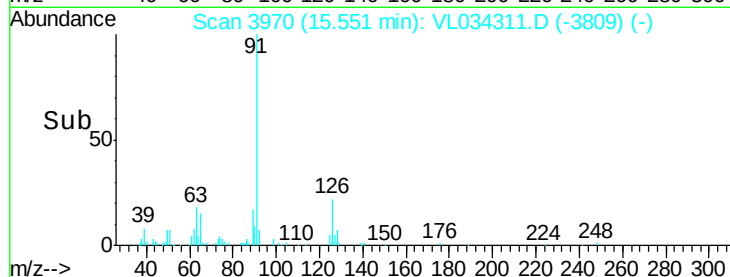
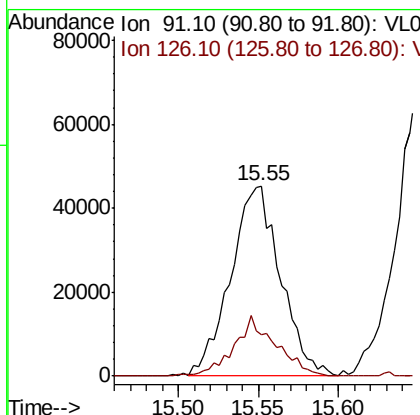
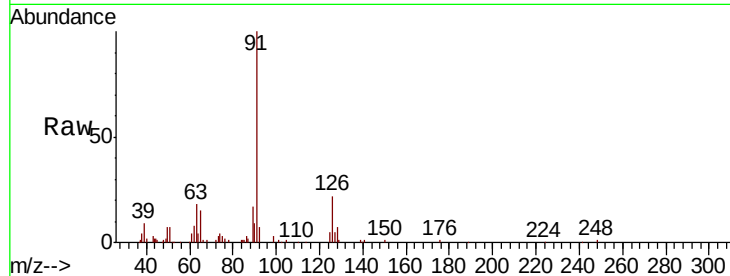
#71
 2-Chlorotoluene
 Concen: 0.388 ppbv
 RT: 15.55 min Scan# 3970
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
126	26.6	11.9	47.5

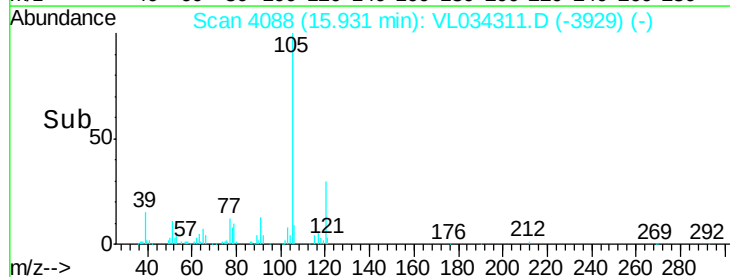
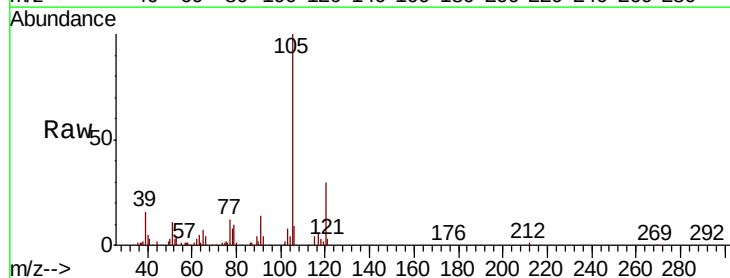
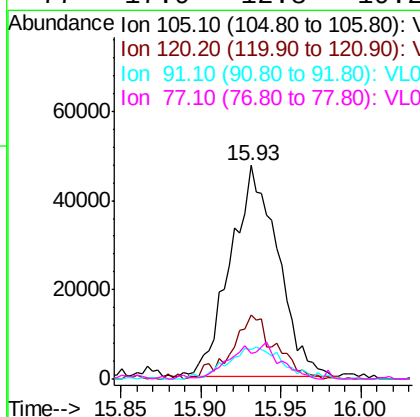
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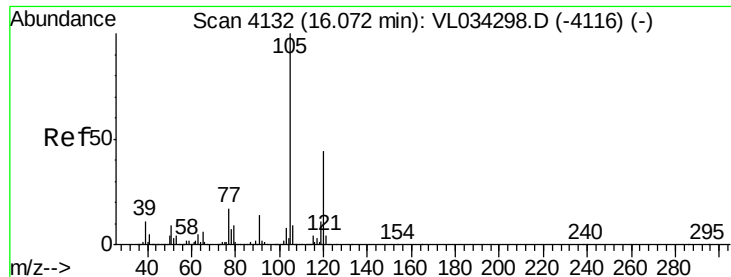
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 10/18/2019 3:05:00 PM



#72
 4-Ethyltoluene
 Concen: 0.349 ppbv
 RT: 15.93 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
105	100		
120	28.7	23.8	35.8
91	17.8	11.2	16.8
77	17.9	12.8	19.2





#73

1,3,5-Trimethylbenzene

Concen: 0.361 ppbv

RT: 16.09 min Scan# 4137

Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:105 Resp: 98061

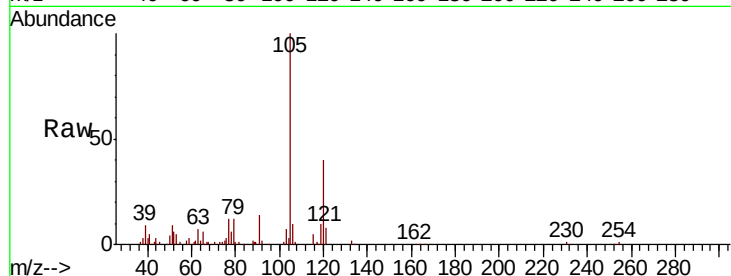
Ion Ratio Lower Upper

105 100

120 39.6 35.2 52.8

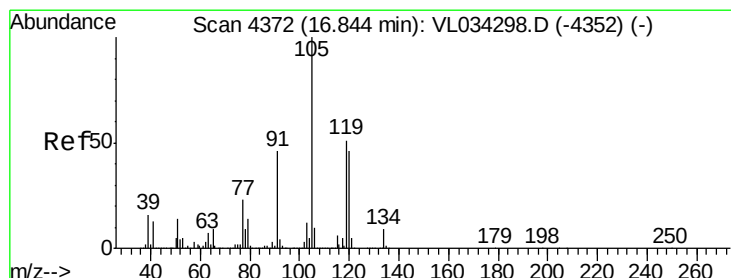
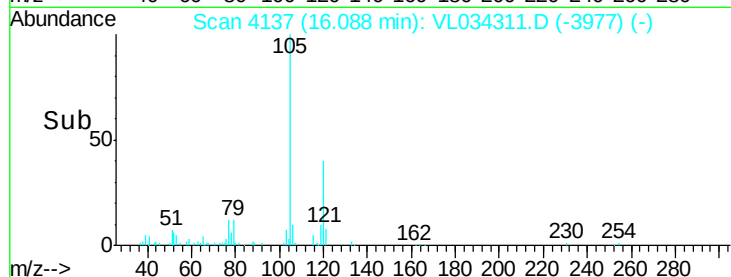
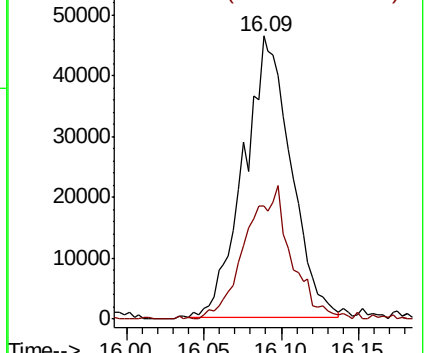
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.391 ppbv

RT: 16.86 min Scan# 4376

Delta R.T. 0.01 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion:105 Resp: 110715

Ion Ratio Lower Upper

105 100

120 40.7 37.0 55.6

91 47.1 38.2 57.2

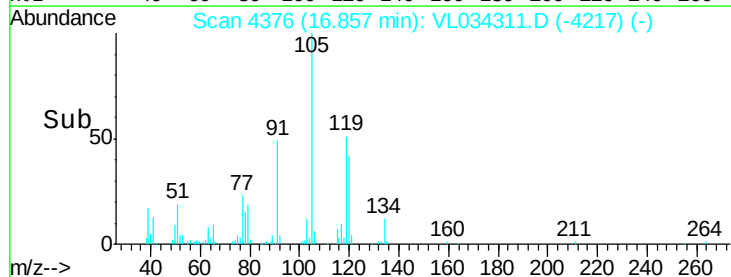
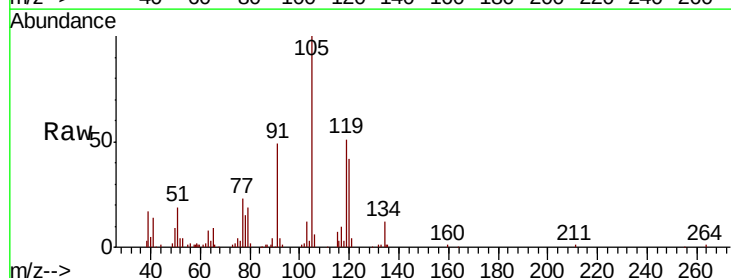
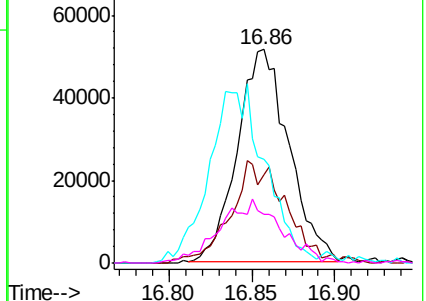
77 22.5 19.0 28.4

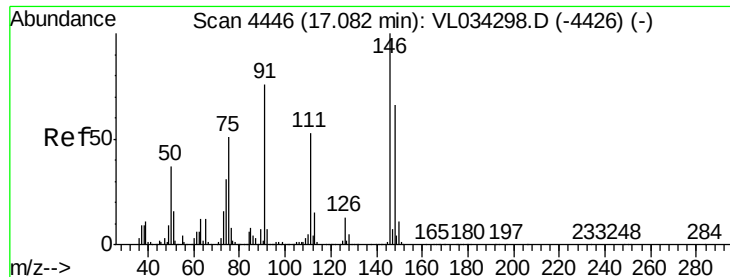
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): V

Ion 77.10 (76.80 to 77.80): V





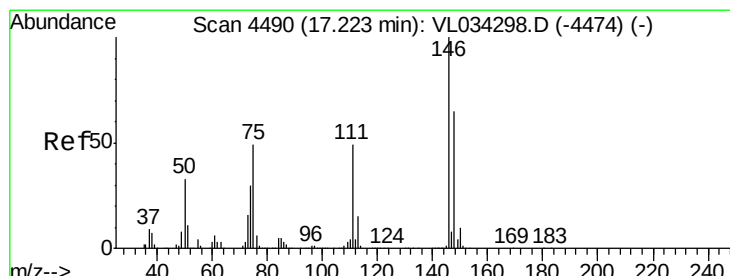
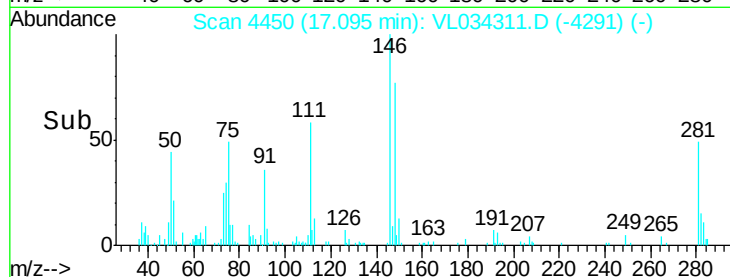
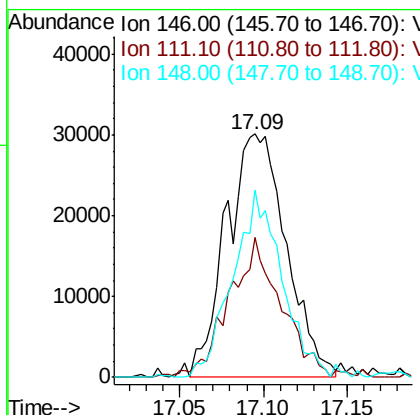
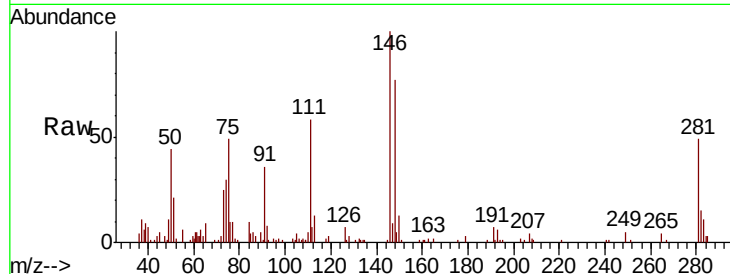
#75
 1,3-Dichlorobenzene
 Concen: 0.442 ppbv m
 RT: 17.09 min Scan# 4450
 Delta R.T. 0.01 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	0.0	24.5	73.5#
148	0.0	32.3	96.8#

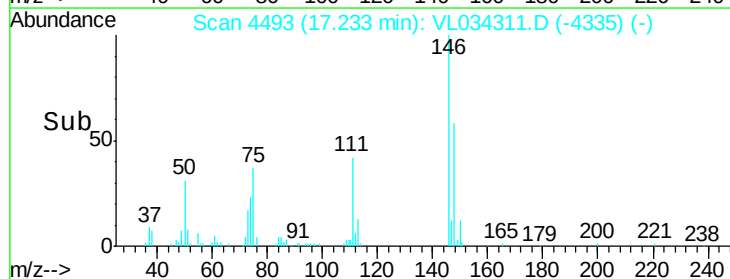
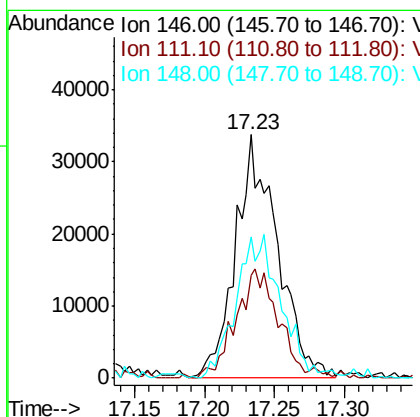
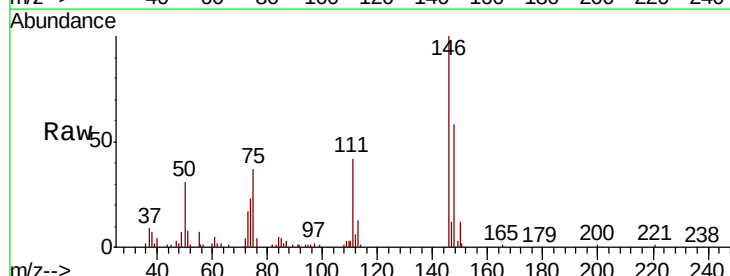
Manual Integrations
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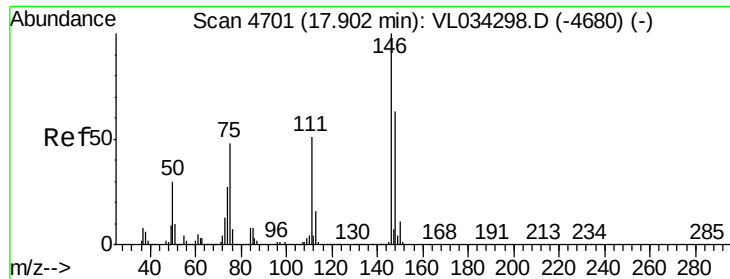
MMDadoda
 10/18/2019 3:05:00 PM



#76
 1,4-Dichlorobenzene
 Concen: 0.425 ppbv m
 RT: 17.23 min Scan# 4493
 Delta R.T. 0.01 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.8	23.9	71.7
148	64.4	33.1	99.2





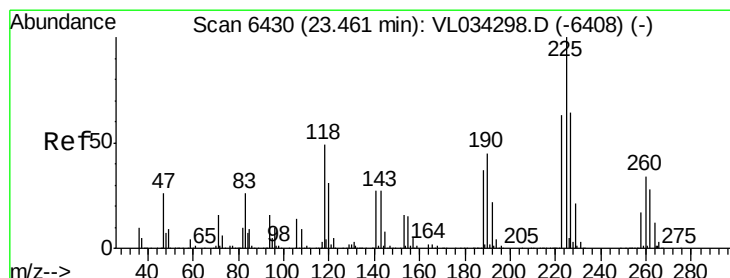
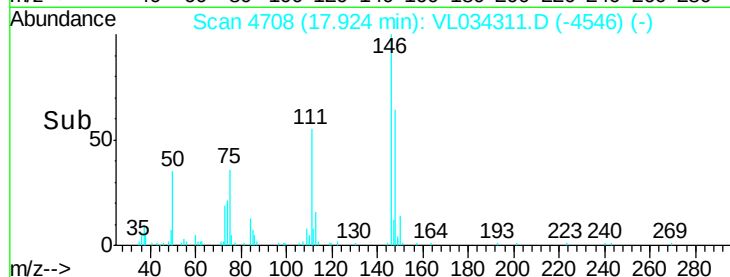
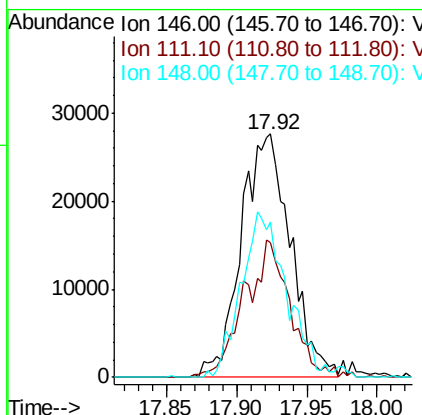
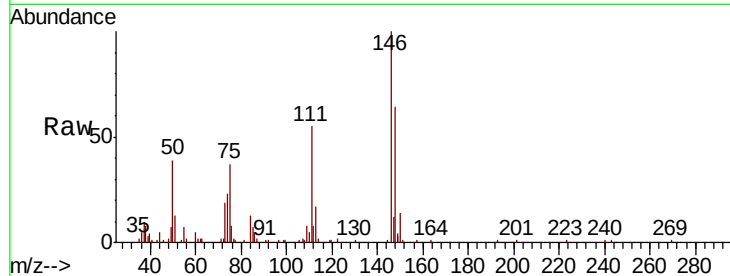
#77
 1,2-Dichlorobenzene
 Concen: 0.404 ppbv m
 RT: 17.92 min Scan# 4708
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.9	25.1	75.3
148	0.0	32.3	96.8#

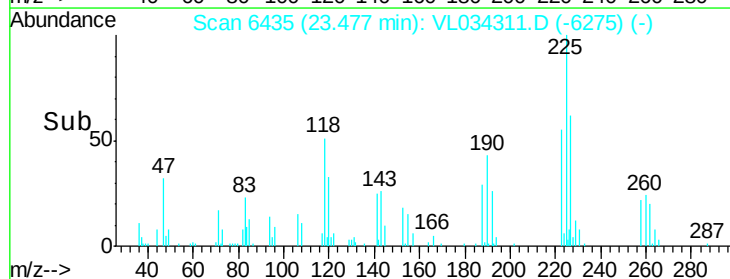
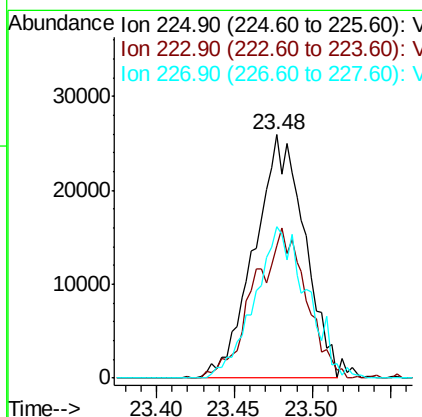
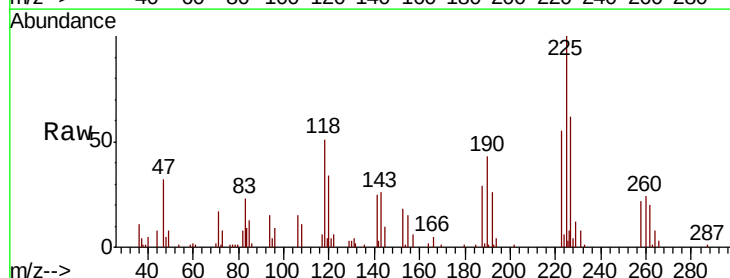
Manual Integrations
 APPROVED

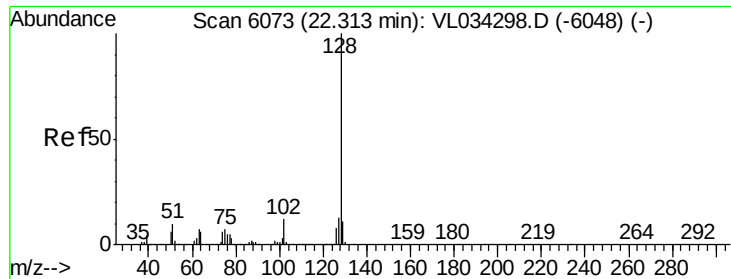
MMDadoda
 10/18/2019 3:05:00 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.422 ppbv m
 RT: 23.48 min Scan# 6435
 Delta R.T. 0.02 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.8	76.2
227	0.0	51.5	77.3#





#79

Naphthalene

Concen: 0.263 ppbv m

RT: 22.34 min Scan# 6081

Delta R.T. 0.03 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Instrument :

MSVOA_L

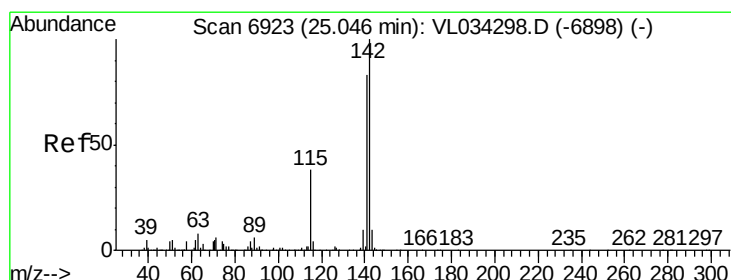
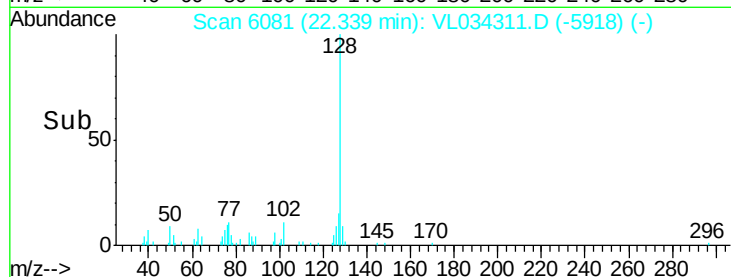
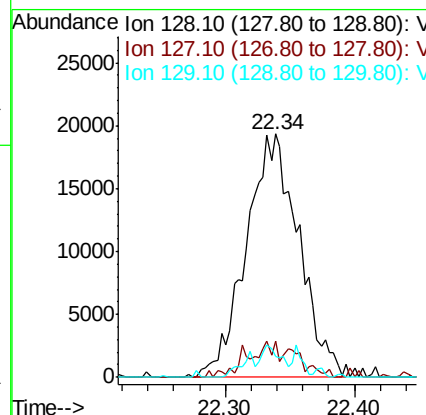
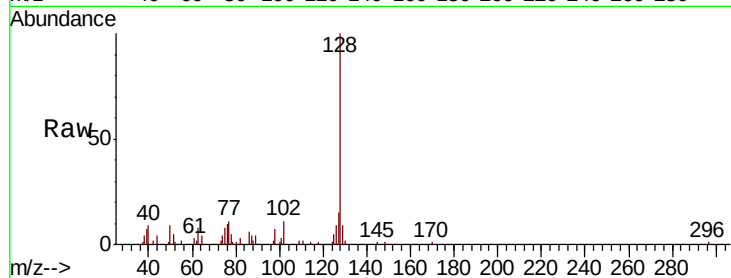
ClientSampleId :

LOD-MDL-AIR-01-QT4-2019

Tot Ion:	128	Resp:	54391
Ion Ratio	Lower	Upper	
128	100		
127	14.7	10.2	15.4
129	8.6	8.9	13.3#

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#80

Naphthalene, 2-methyl-

Concen: 0.122 ppbv

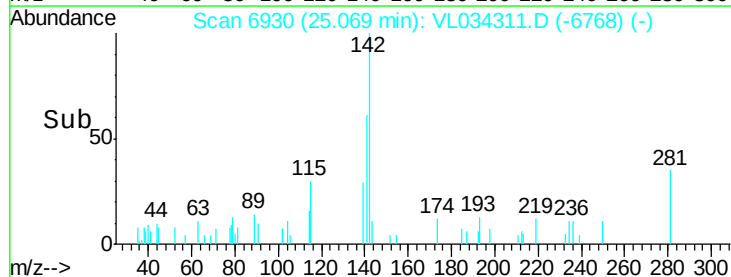
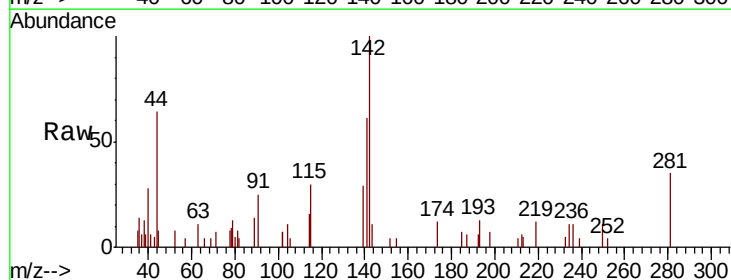
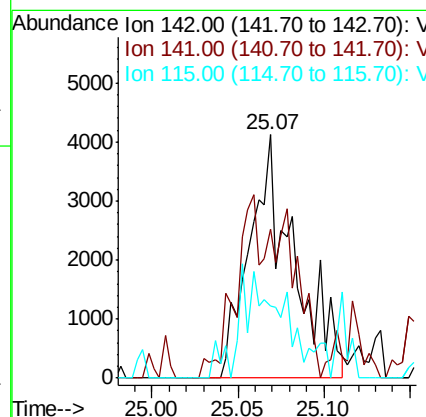
RT: 25.07 min Scan# 6930

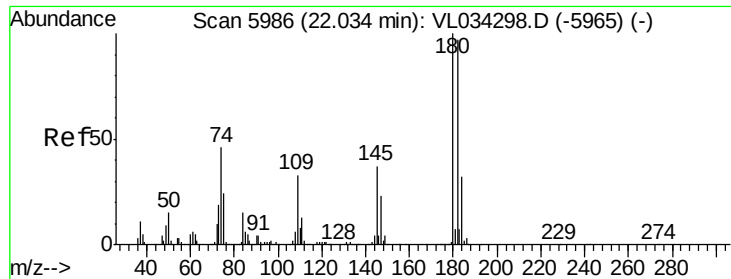
Delta R.T. 0.02 min

Lab File: VL034311.D

Acq: 17 Oct 2019 00:01

Tgt Ion:	142	Resp:	7291
Ion Ratio	Lower	Upper	
142	100		
141	93.9	65.7	98.5
115	42.8	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.339 ppbv m
 RT: 22.06 min Scan# 5995
 Delta R.T. 0.03 min
 Lab File: VL034311.D
 Acq: 17 Oct 2019 00:01

Instrument :
 MSVOA_L
 ClientSampleId :
 LOD-MDL-AIR-01-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.8	116.8#
184	35.2	25.4	38.2

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:05:00 PM

