

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033664.D
 Acq On : 6 May 2019 18:30
 Operator : SY/AP
 Sample : K2241-14 0.5PPB
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:46 PM

Quant Time: May 07 04:30:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 07 2019
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	934782	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2393044	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2271468	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1917474	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	114386	0.522	ppbv	95
3) Chlorodifluoromethane	3.01	51	69834m	0.517	ppbv	
4) Chloromethane	3.17	50	39233	0.559	ppbv	89
5) Vinyl Chloride	3.29	62	36558	0.536	ppbv	98
6) Bromomethane	3.52	94	22576	0.521	ppbv	100
7) Chloroethane	3.60	64	12688	0.512	ppbv	95
8) Dichlorotetrafluoroethane	3.22	85	98289	0.545	ppbv	100
9) Propene	3.03	41	27989m	0.544	ppbv	
10) Heptane	8.25	43	58200	0.458	ppbv	97
11) Trichlorofluoromethane	4.00	101	112197	0.548	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.55	101	74388	0.540	ppbv	96
13) Ethanol	3.66	45	8622	0.558	ppbv	81
14) Bromoethene	3.79	108	27415	0.505	ppbv #	96
15) Acetone	3.91	43	77528	0.557	ppbv	97
16) 1,3-Butadiene	3.36	39	30628	0.514	ppbv	93
17) tert-Butyl alcohol	4.37	59	61698	0.584	ppbv	98
18) 1,1-Dichloroethene	4.35	96	31477	0.530	ppbv	83
19) Isopropyl Alcohol	4.04	45	51807	0.606	ppbv #	94
20) Methylene Chloride	4.41	84	30690	0.581	ppbv	84
21) Allyl Chloride	4.47	41	43915	0.522	ppbv	96
22) trans-1,2-Dichloroethene	4.96	96	32251	0.541	ppbv	96
23) Vinyl Acetate	5.15	43	81427	0.451	ppbv #	96
24) 1,1-Dichloroethane	5.08	63	73915	0.541	ppbv	97
25) Ethyl Acetate	5.77	43	114102	0.504	ppbv	99
26) Hexane	5.78	57	47319	0.487	ppbv	89
27) Carbon Disulfide	4.62	76	61128	0.460	ppbv #	89
28) Methyl tert-Butyl Ether	5.12	73	77717	0.474	ppbv	97
29) Chloroform	5.84	83	91703	0.524	ppbv	90
30) Cyclohexane	7.25	84	39668m	0.486	ppbv	
31) cis-1,2-Dichloroethene	5.63	61	46515	0.481	ppbv #	86
32) 1,1,1-Trichloroethane	6.62	97	90572	0.502	ppbv	97
34) 2-Butanone	5.34	43	72187	0.471	ppbv	97
35) Carbon Tetrachloride	7.13	117	96330	0.490	ppbv	96
36) Benzene	7.00	78	98882	0.461	ppbv	99
37) 1,2-Dichloroethane	6.41	62	71241	0.476	ppbv	98
38) Trichloroethene	7.96	130	38805	0.493	ppbv	87
39) 1,2-Dichloropropane	7.73	63	38301	0.479	ppbv	91
40) 1,4-Dioxane	7.98	88	17997m	0.563	ppbv	
41) Tetrahydrofuran	6.16	42	34788	0.439	ppbv	99
42) Bromodichloromethane	7.91	83	91746	0.475	ppbv	88
43) Methyl Methacrylate	8.14	69	33475	0.415	ppbv	95

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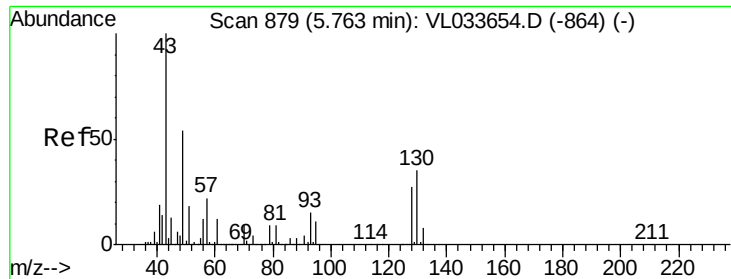
Manual Integrations
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Quant Time: May 07 04:30:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 15:19:01 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	170629	0.465	ppbv	95
45) t-1,3-Dichloropropene	9.41	75	36422m	0.368	ppbv	
46) cis-1,3-Dichloropropene	8.83	75	45467m	0.368	ppbv	
47) 1,1,2-Trichloroethane	9.61	97	44102	0.480	ppbv	96
48) Dibromochloromethane	10.45	129	76575	0.492	ppbv	100
49) Bromoform	13.20	173	55580m	0.411	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	102500	0.442	ppbv	93
51) 2-Hexanone	10.28	43	67521	0.376	ppbv #	95
52) Tetrachloroethene	11.37	164	37734m	0.496	ppbv	
53) Toluene	9.94	91	87821	0.379	ppbv	97
54) 1,2-Dibromoethane	10.75	107	63324	0.458	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.27	131	56022m	0.535	ppbv	
57) Chlorobenzene	12.30	112	102428m	0.549	ppbv	
58) Ethyl Benzene	12.86	91	124223	0.419	ppbv	98
59) m/p-Xylene	13.15	91	250583m	0.960	ppbv	
60) o-Xylene	13.84	91	126744m	0.480	ppbv	
61) Styrene	13.69	104	67283	0.383	ppbv	98
62) Isopropylbenzene	14.82	105	166546	0.462	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	104558	0.544	ppbv	98
64) n-propylbenzene	15.72	120	41754m	0.448	ppbv	
65) tert-Butylbenzene	16.90	119	145301	0.439	ppbv	94
66) Benzyl Chloride	17.16	91	60518m	0.402	ppbv	
67) sec-Butylbenzene	17.45	105	211789	0.459	ppbv	100
69) p-Isopropyltoluene	17.81	119	164403m	0.432	ppbv	
70) n-Butylbenzene	18.71	91	187822m	0.466	ppbv	
71) 2-Chlorotoluene	15.61	91	116596m	0.438	ppbv	
72) 4-Ethyltoluene	16.00	105	125694	0.405	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.15	105	134530m	0.448	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	155966	0.468	ppbv	91
75) 1,3-Dichlorobenzene	17.15	146	110866m	0.550	ppbv	
76) 1,4-Dichlorobenzene	17.30	146	92968m	0.486	ppbv	
77) 1,2-Dichlorobenzene	17.98	146	91945m	0.493	ppbv	
78) Hexachloro-1,3-Butadiene	23.54	225	83406m	0.564	ppbv	
79) Naphthalene	22.42	128	134808	0.443	ppbv #	95
80) Naphthalene, 2-methyl-	25.12	142	50181	0.436	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	85463m	0.483	ppbv	

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



#1

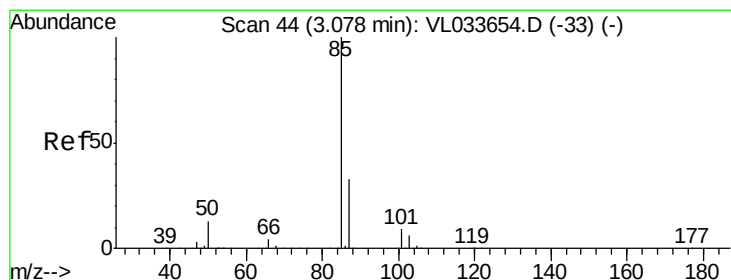
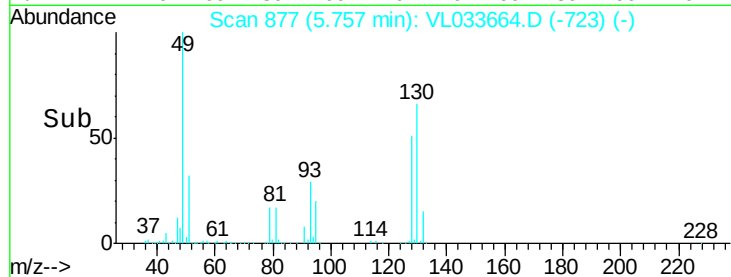
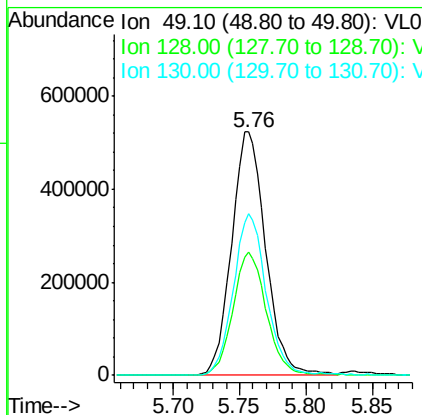
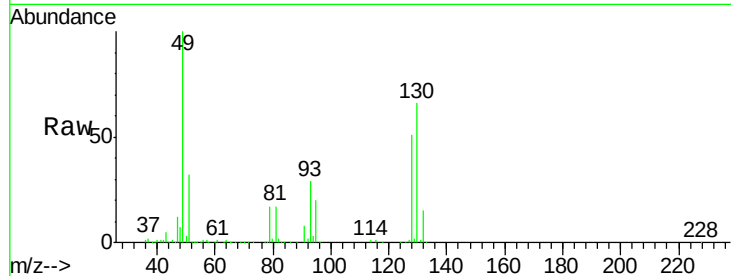
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

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MSVOA_L
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LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.1	24.8	74.3
130	64.7	32.1	96.5

Manual Integrations
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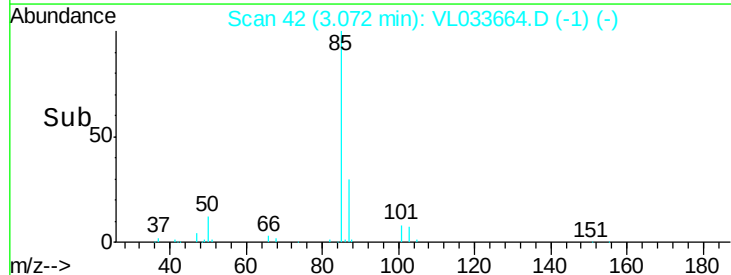
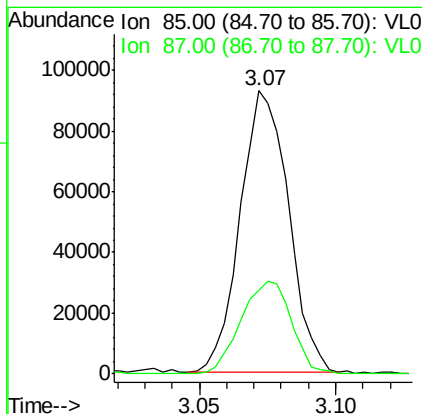
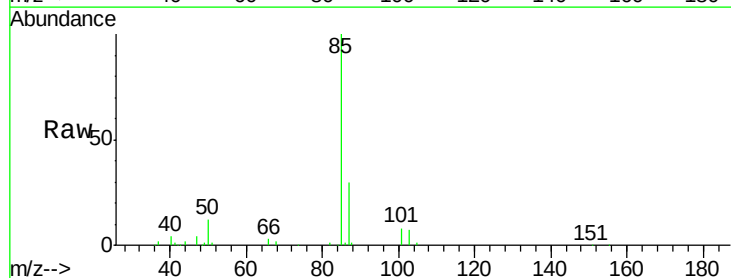
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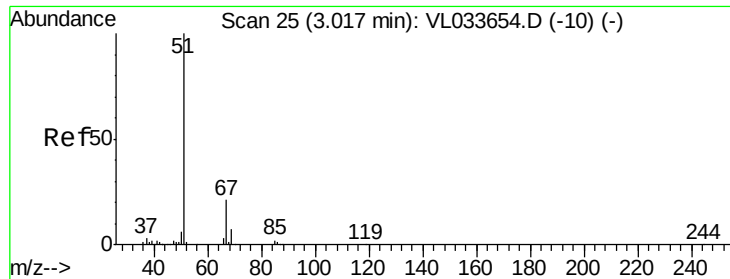


#2

Dichlorodifluoromethane
Concen: 0.522 ppbv
RT: 3.07 min Scan# 42
Delta R.T. -0.01 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
85	100		
87	29.7	26.0	39.0





#3

Chlorodifluoromethane

Concen: 0.517 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion: 51 Resp: 69834

Ion Ratio Lower Upper

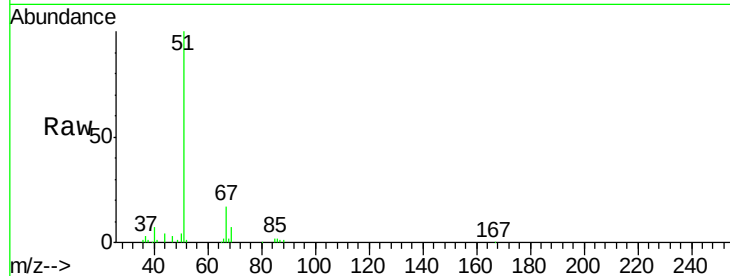
51 100

67 18.2 15.7 23.5

Manual Integrations
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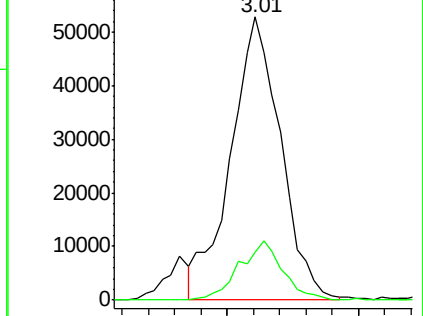
MMDadoda

5/8/2019 12:06:46 PM

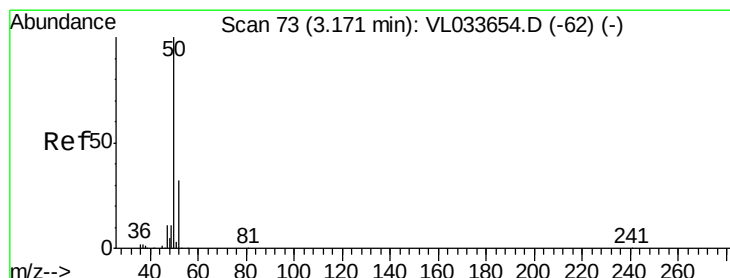
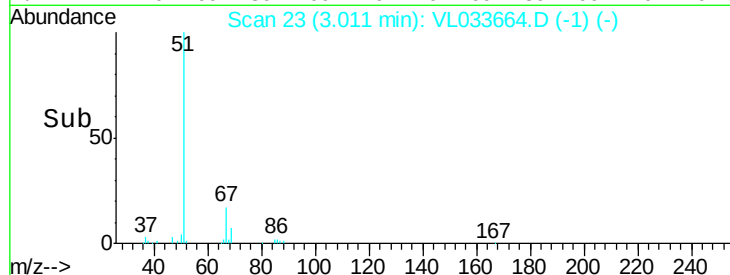


Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



Time-->



#4

Chloromethane

Concen: 0.559 ppbv

RT: 3.17 min Scan# 73

Delta R.T. 0.00 min

Lab File: VL033664.D

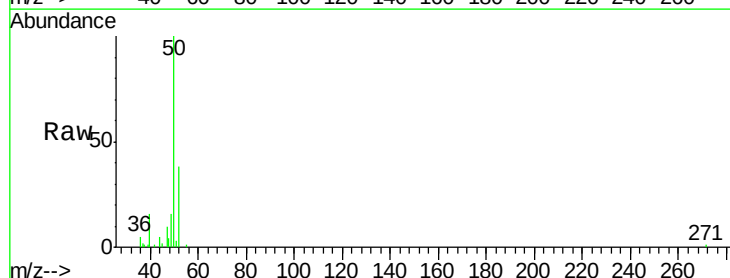
Acq: 6 May 2019 18:30

Tgt Ion: 50 Resp: 39233

Ion Ratio Lower Upper

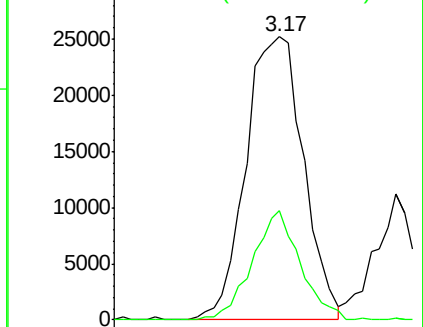
50 100

52 38.4 25.8 38.8

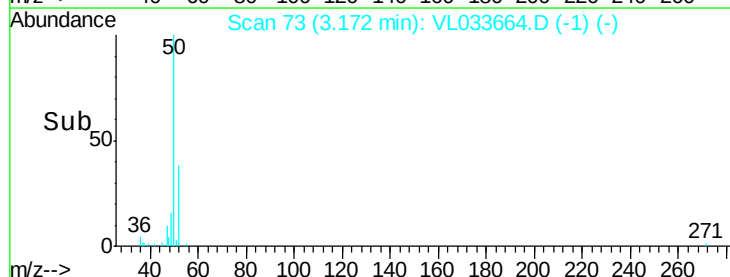


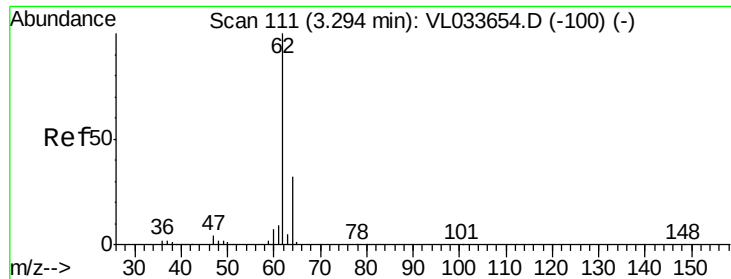
Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->





#5

Vinyl Chloride

Concen: 0.536 ppbv

RT: 3.29 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion: 62 Resp: 36558

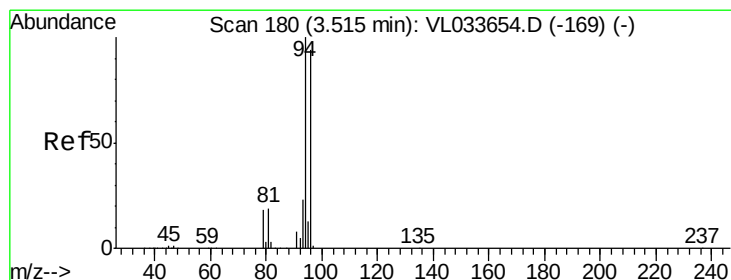
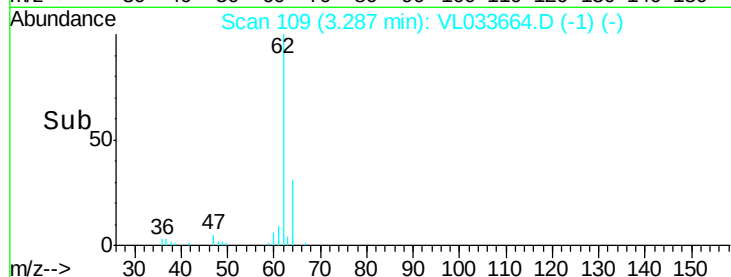
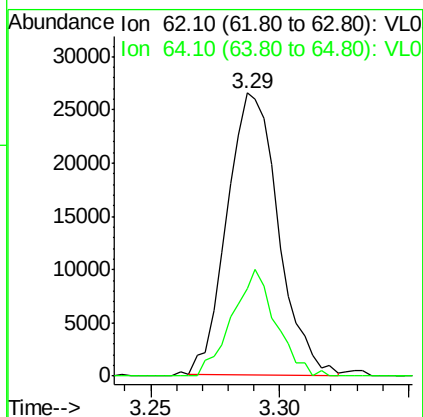
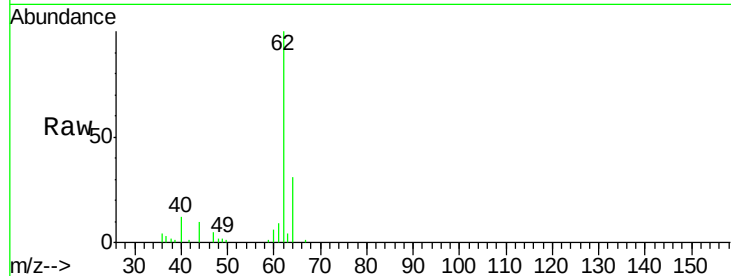
Ion Ratio Lower Upper

62 100

64 30.9 25.6 38.4

Manual Integrations
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#6

Bromomethane

Concen: 0.521 ppbv

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033664.D

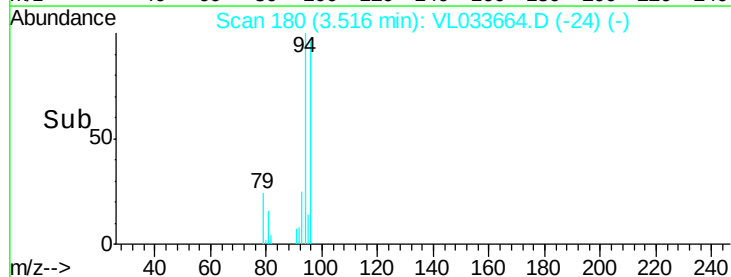
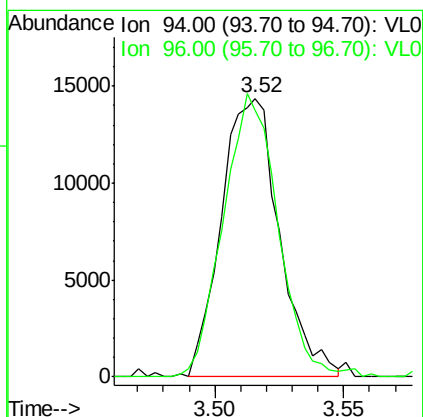
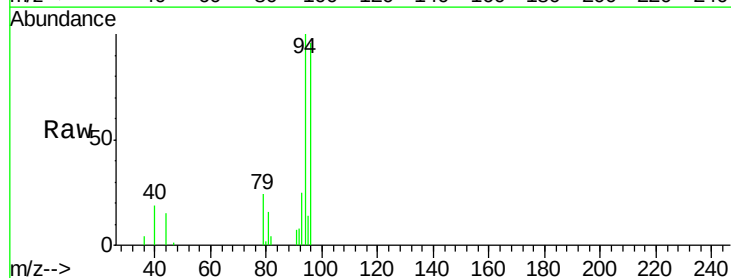
Acq: 6 May 2019 18:30

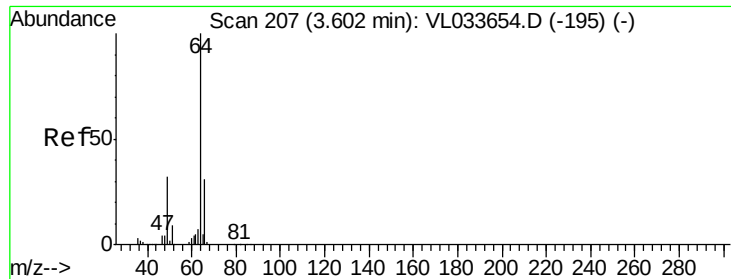
Tgt Ion: 94 Resp: 22576

Ion Ratio Lower Upper

94 100

96 93.7 75.2 112.8





#7

Chloroethane

Concen: 0.512 ppbv

RT: 3.60 min Scan# 205

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion: 64 Resp: 12688

Ion Ratio Lower Upper

64 100

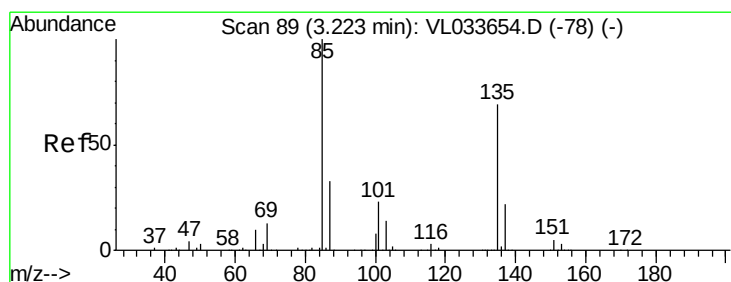
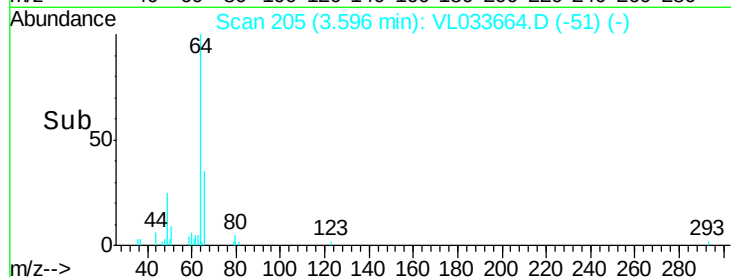
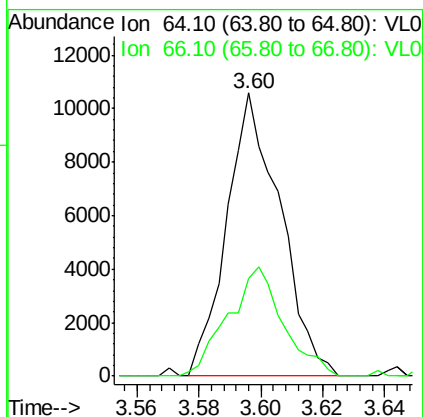
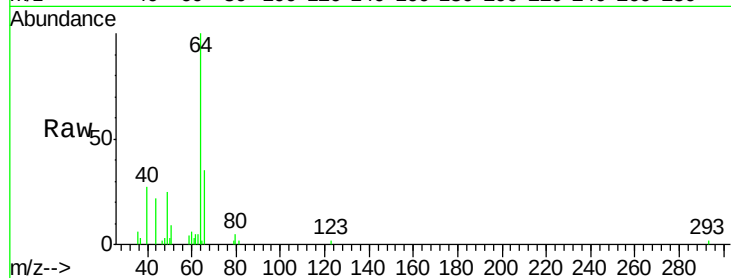
66 34.0 25.1 37.7

Manual Integrations

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5/8/2019 12:06:46 PM



#8

Dichlorotetrafluoroethane

Concen: 0.545 ppbv

RT: 3.22 min Scan# 87

Delta R.T. -0.01 min

Lab File: VL033664.D

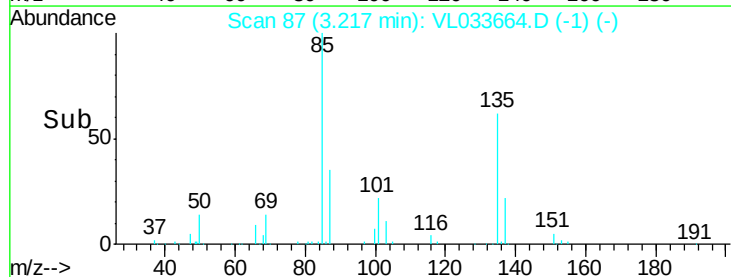
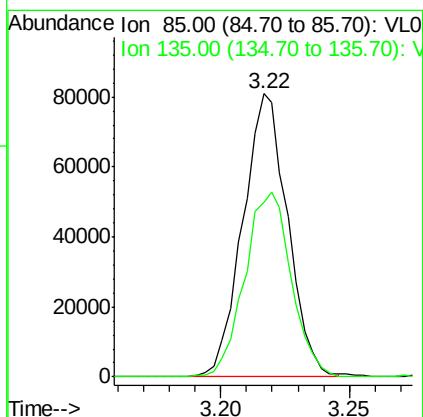
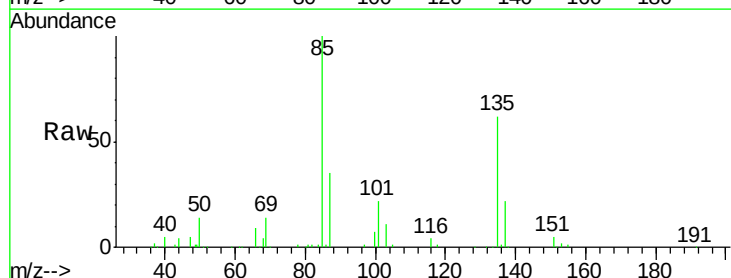
Acq: 6 May 2019 18:30

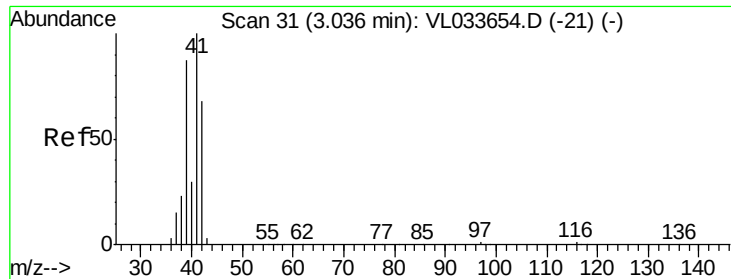
Tgt Ion: 85 Resp: 98289

Ion Ratio Lower Upper

85 100

135 68.0 54.3 81.5





#9

Propene

Concen: 0.544 ppbv m

RT: 3.03 min Scan# 29

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion: 41 Resp: 27989

Ion Ratio Lower Upper

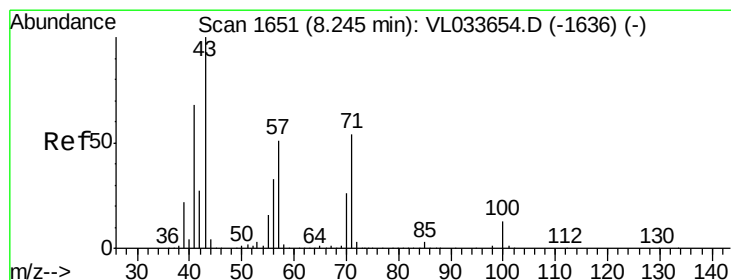
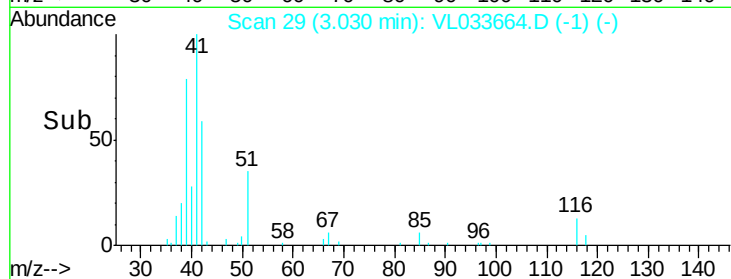
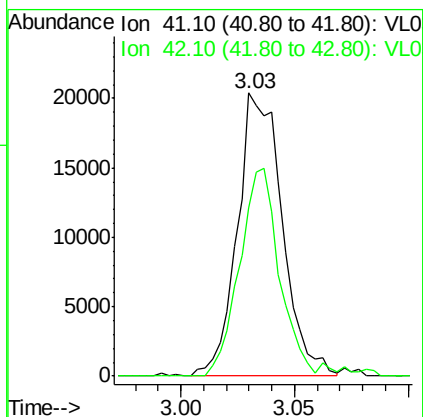
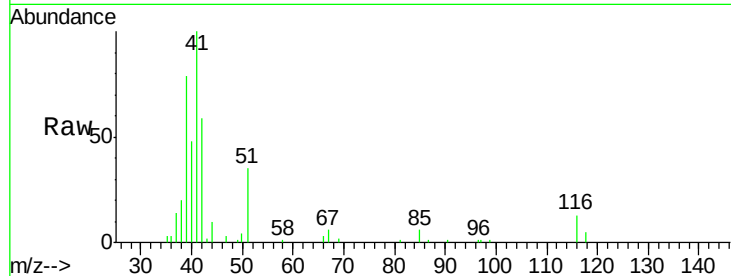
41 100

42 0.0 55.6 83.4#

Manual Integrations
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5/8/2019 12:06:46 PM



#10

Heptane

Concen: 0.458 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033664.D

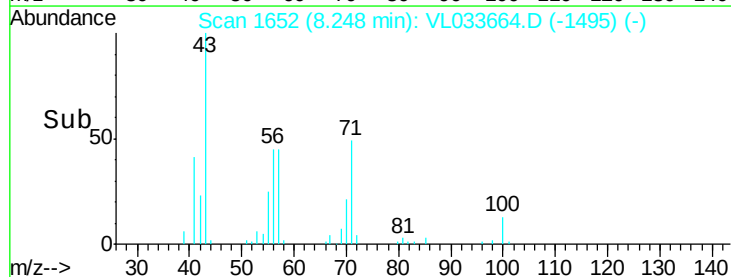
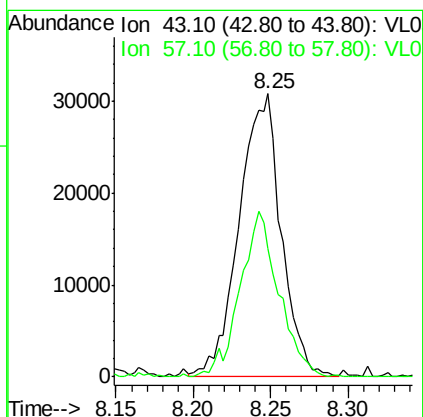
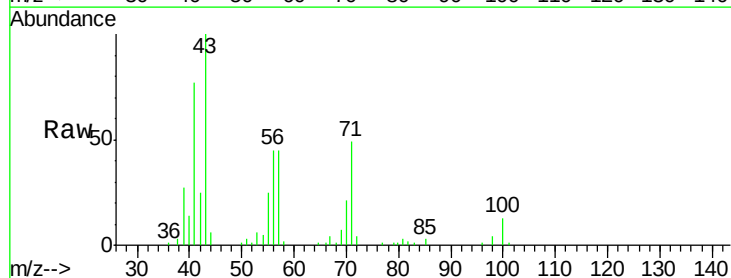
Acq: 6 May 2019 18:30

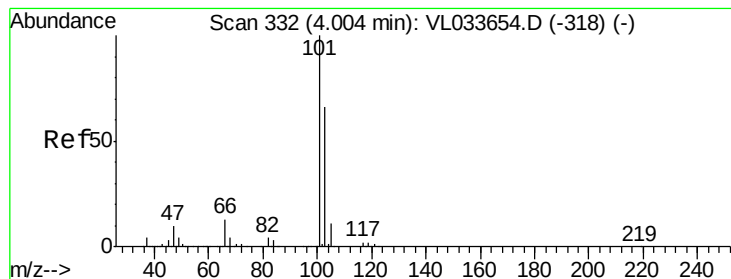
Tgt Ion: 43 Resp: 58200

Ion Ratio Lower Upper

43 100

57 54.0 41.8 62.6





#11

Trichlorofluoromethane

Concen: 0.548 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:101 Resp: 112197

Ion Ratio Lower Upper

101 100

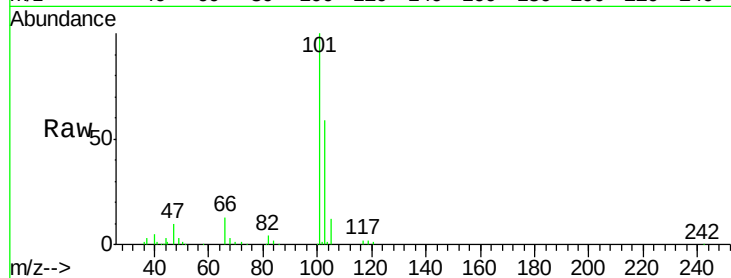
103 59.5 52.7 79.1

Manual Integrations

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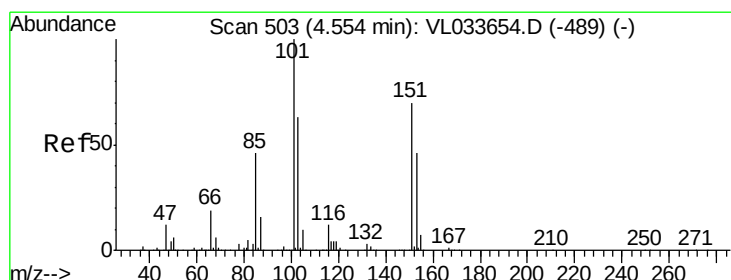
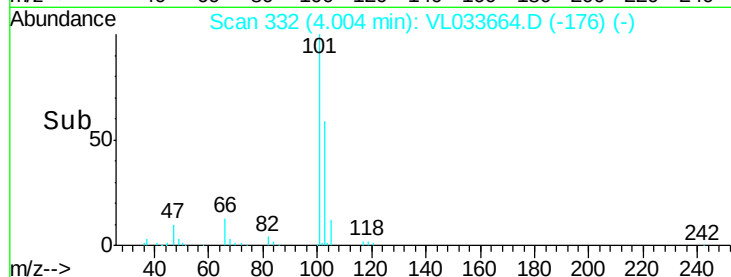
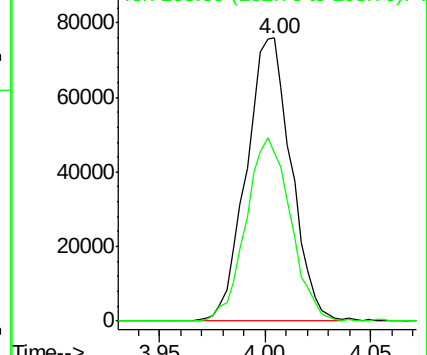
MMDadoda

5/8/2019 12:06:46 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: 0.540 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033664.D

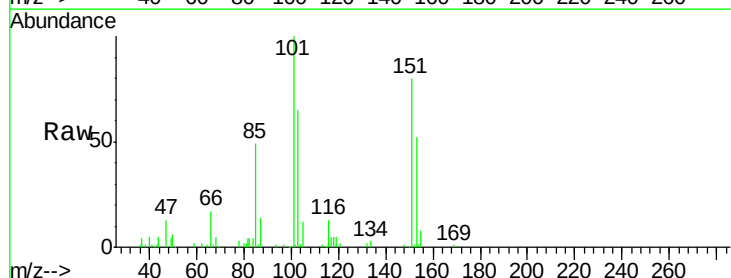
Acq: 6 May 2019 18:30

Tgt Ion:101 Resp: 74388

Ion Ratio Lower Upper

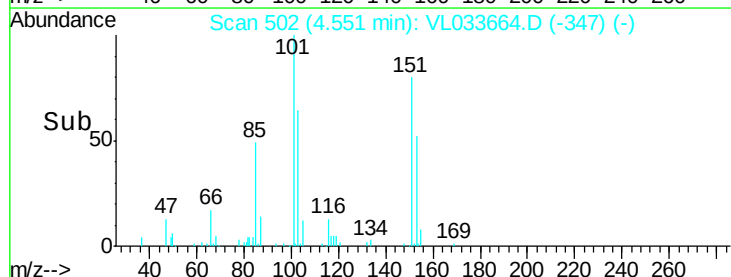
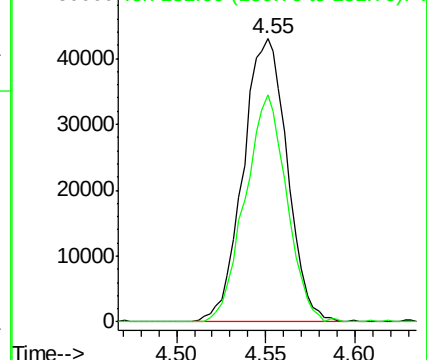
101 100

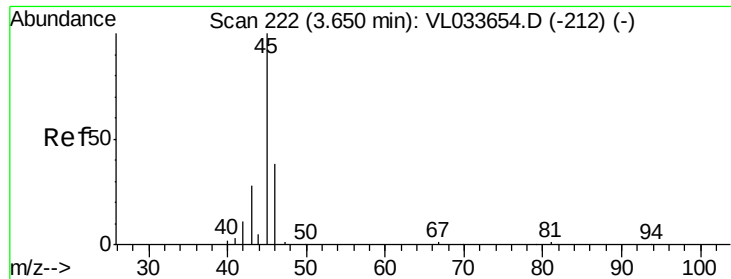
151 75.9 58.0 87.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





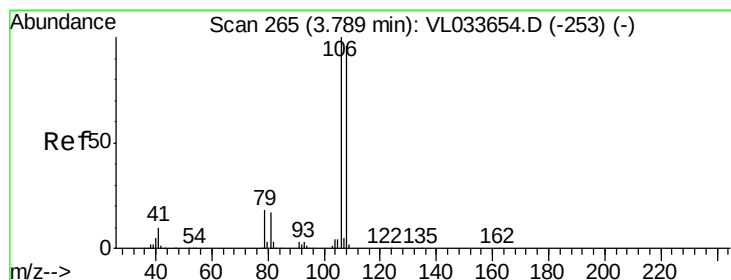
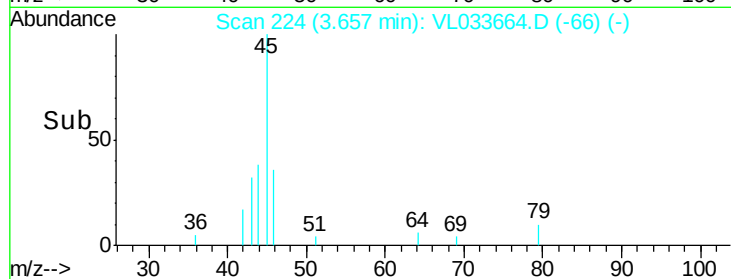
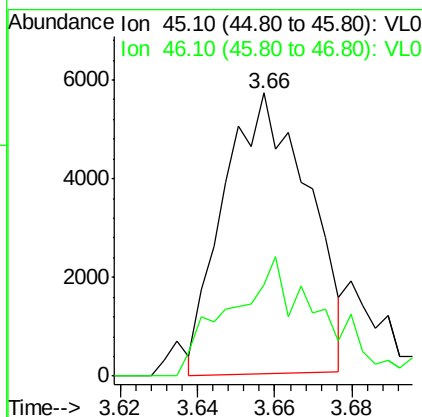
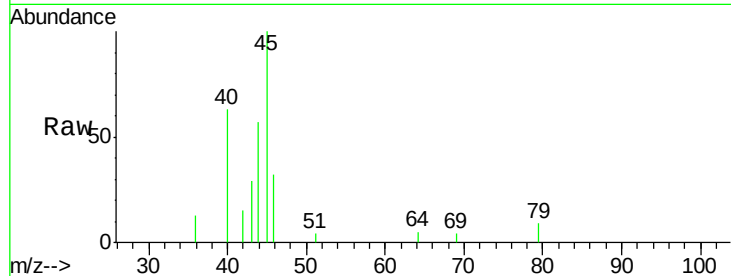
#13
Ethanol
Concen: 0.558 ppbv
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion: 45 Resp: 8622
Ion Ratio Lower Upper
45 100
46 48.4 14.9 59.7

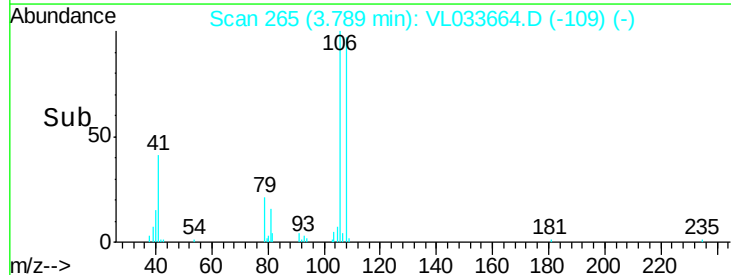
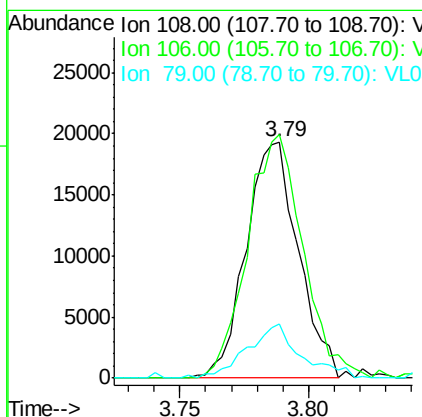
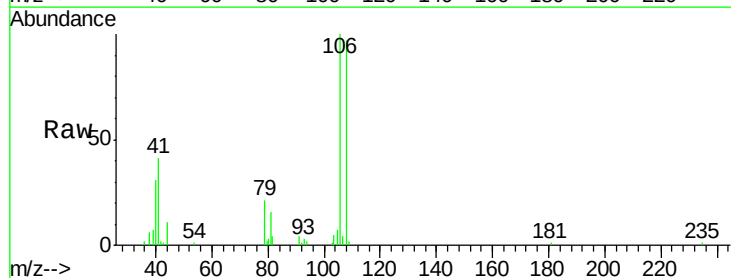
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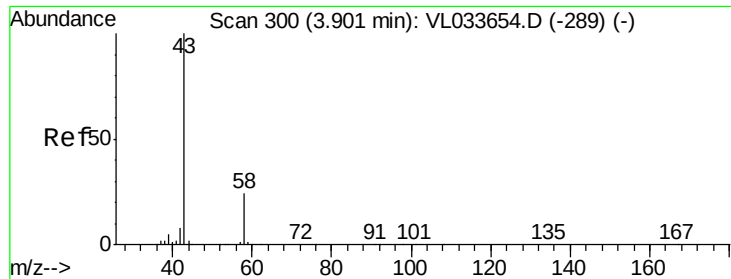
MMDadoda
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#14
Bromoethene
Concen: 0.505 ppbv
RT: 3.79 min Scan# 265
Delta R.T. 0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion: 108 Resp: 27415
Ion Ratio Lower Upper
108 100
106 110.1 85.7 128.5
79 23.4 15.2 22.8#





#15

Acetone

Concen: 0.557 ppbv

RT: 3.91 min Scan# 303

Delta R.T. 0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion: 43 Resp: 77528

Ion Ratio Lower Upper

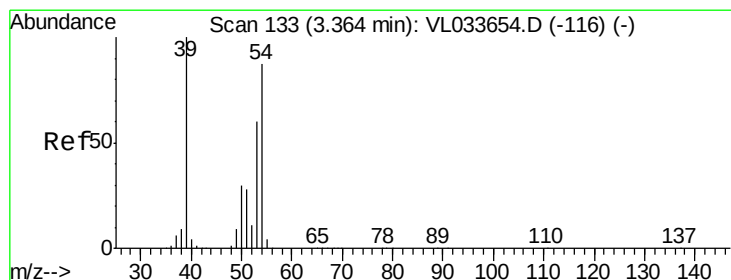
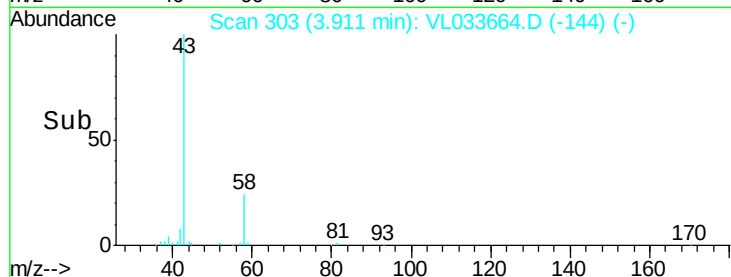
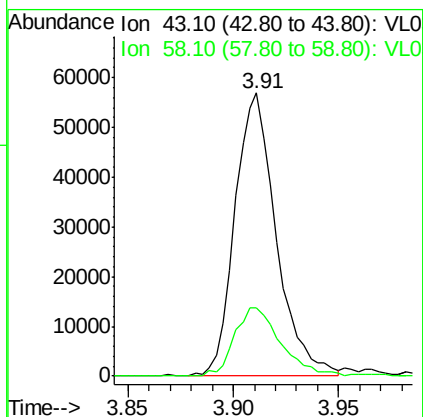
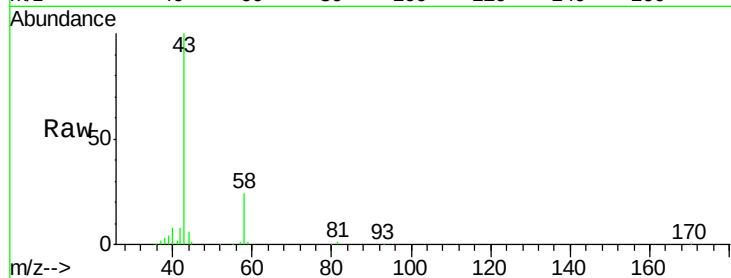
43 100

58 27.7 20.9 31.3

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#16

1,3-Butadiene

Concen: 0.514 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033664.D

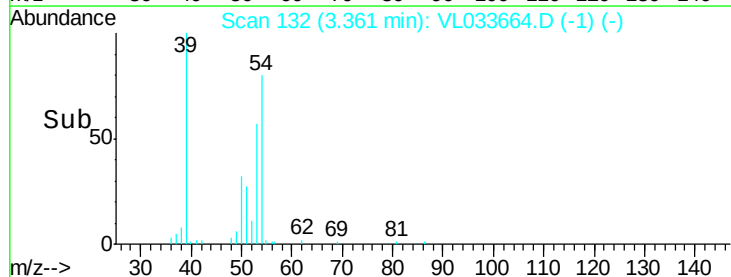
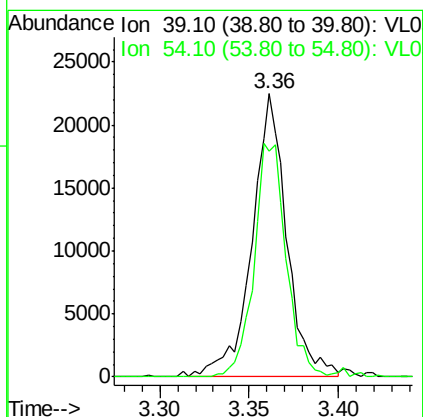
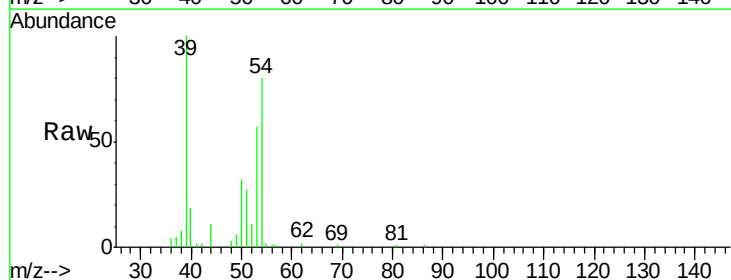
Acq: 6 May 2019 18:30

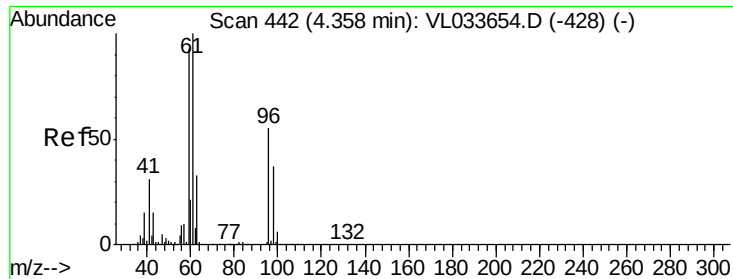
Tgt Ion: 39 Resp: 30628

Ion Ratio Lower Upper

39 100

54 77.2 67.0 100.4





#17

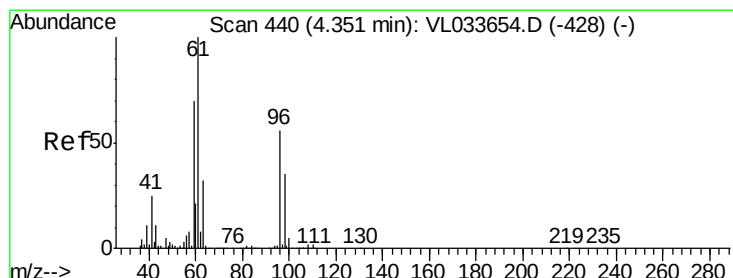
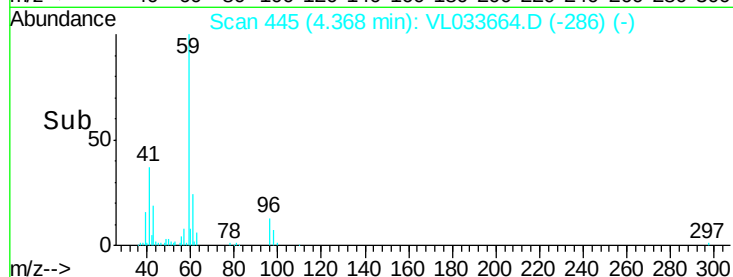
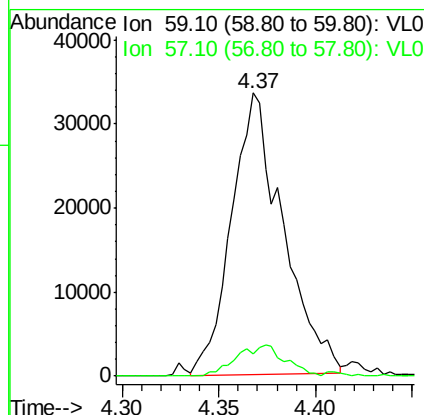
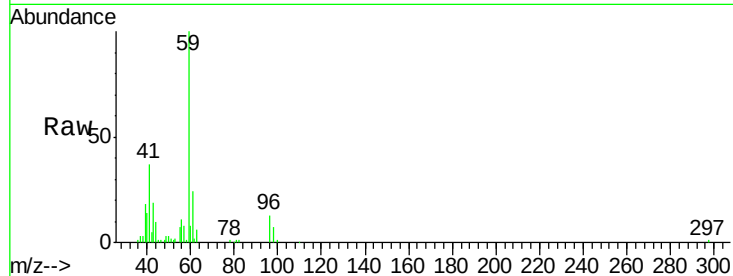
tert-Butyl alcohol
Concen: 0.584 ppbv
RT: 4.37 min Scan# 445
Delta R.T. 0.01 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion	59	Resp	61698
Ion	Ratio	Lower	Upper
59	100		
57	11.1	8.4	12.6

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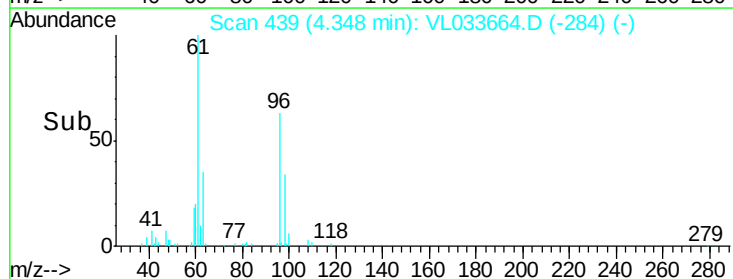
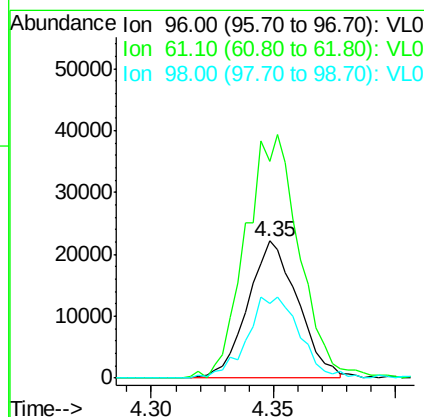
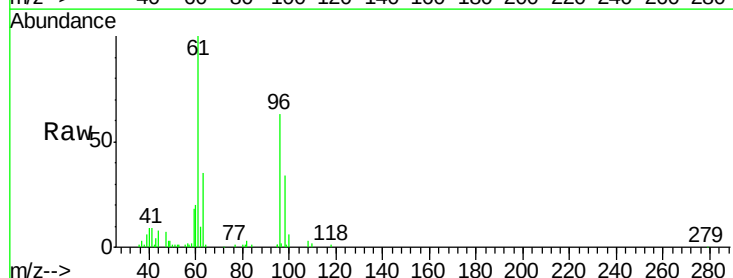
MMDadoda
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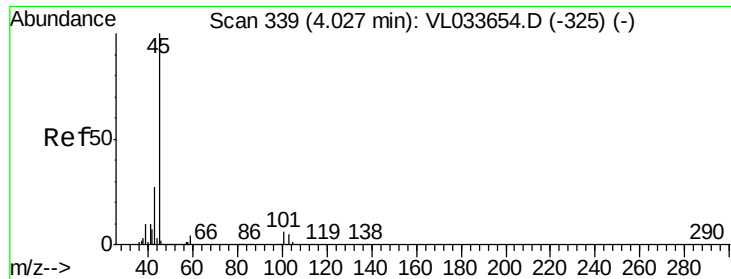


#18

1,1-Dichloroethene
Concen: 0.530 ppbv
RT: 4.35 min Scan# 439
Delta R.T. -0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion	96	Resp	31477
Ion	Ratio	Lower	Upper
96	100		
61	152.8	143.4	215.0
98	52.9	50.4	75.6





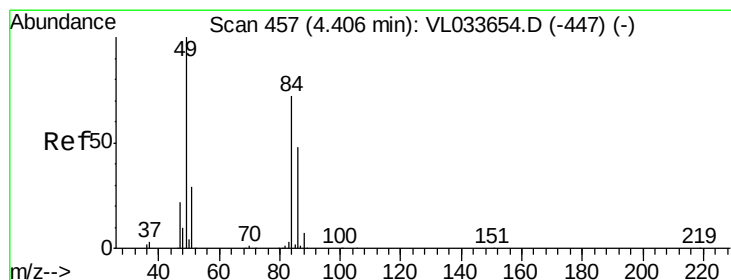
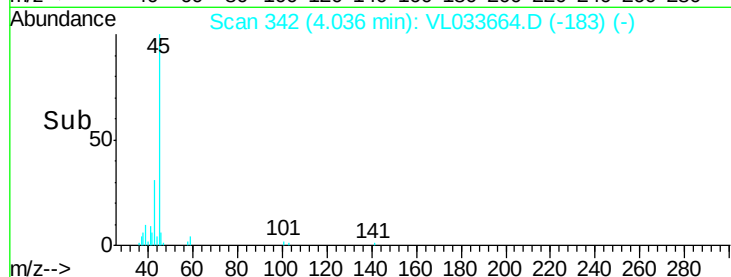
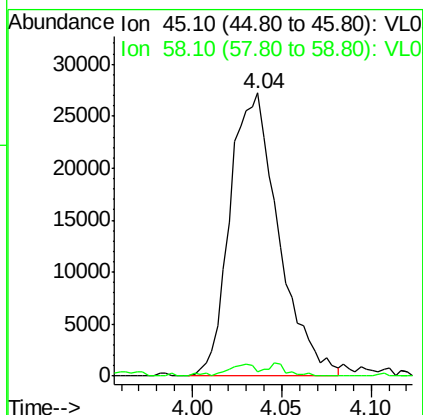
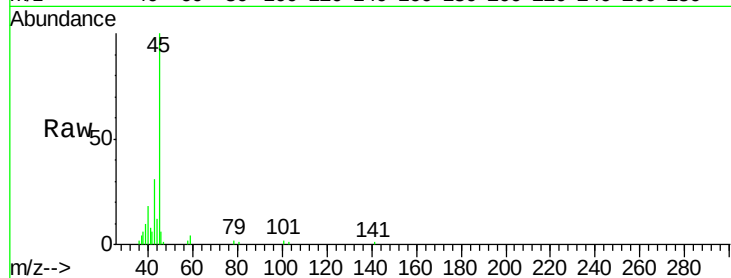
#19
Isopropyl Alcohol
Concen: 0.606 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.01 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion: 45 Resp: 51807
Ion Ratio Lower Upper
45 100
58 4.5 2.0 3.0#

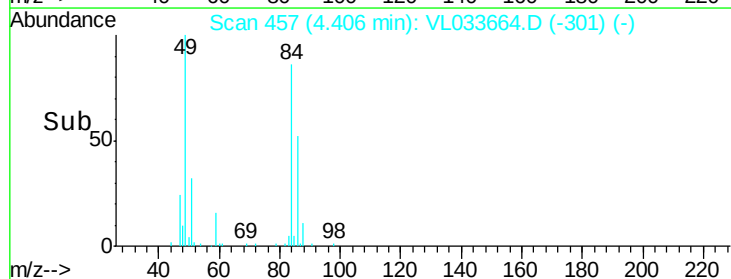
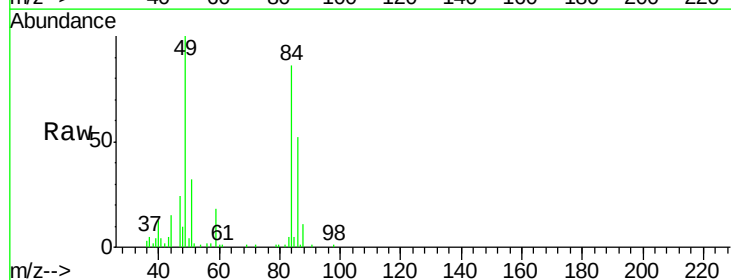
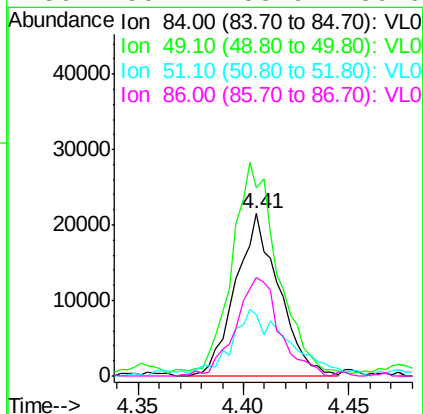
Manual Integrations
APPROVED

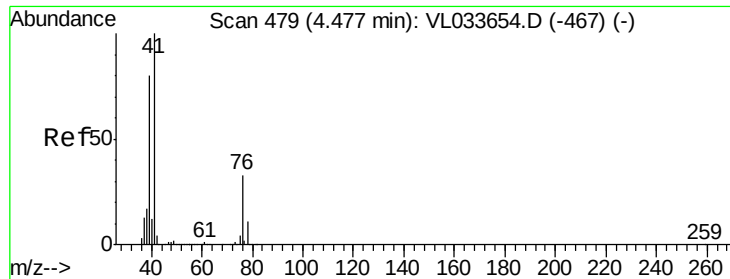
MMDadoda
5/8/2019 12:06:46 PM



#20
Methylene Chloride
Concen: 0.581 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion: 84 Resp: 30690
Ion Ratio Lower Upper
84 100
49 112.3 111.8 167.6
51 38.5 32.3 48.5
86 59.7 53.9 80.9





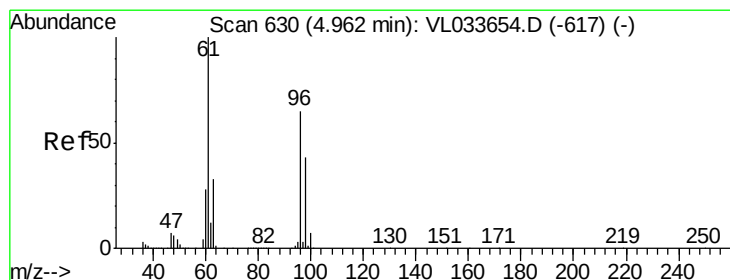
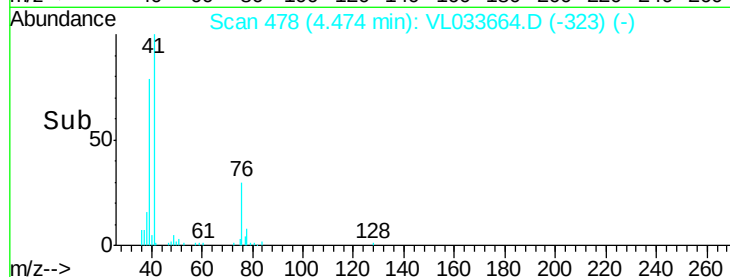
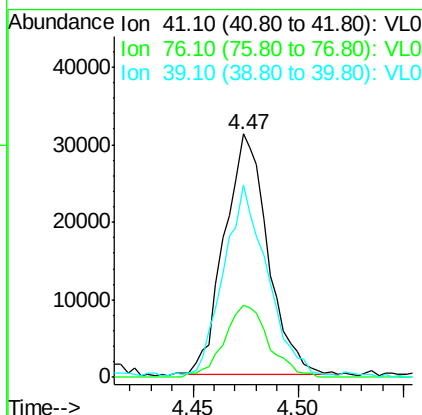
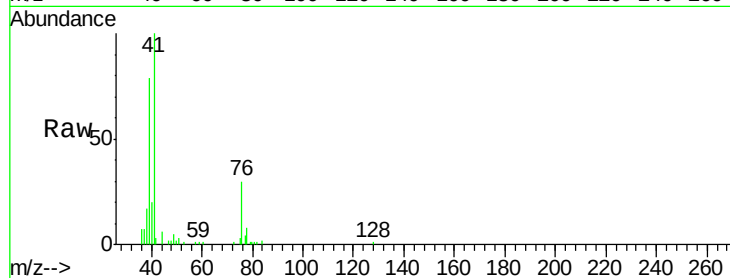
#21
Allvl Chloride
Concen: 0.522 ppbv
RT: 4.47 min Scan# 478
Delta R.T. -0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
41	100		
76	30.9	26.0	39.0
39	84.6	64.4	96.6

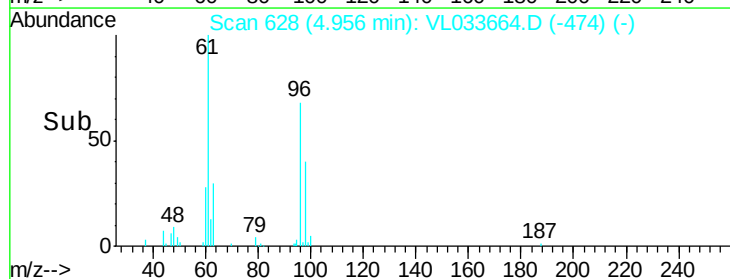
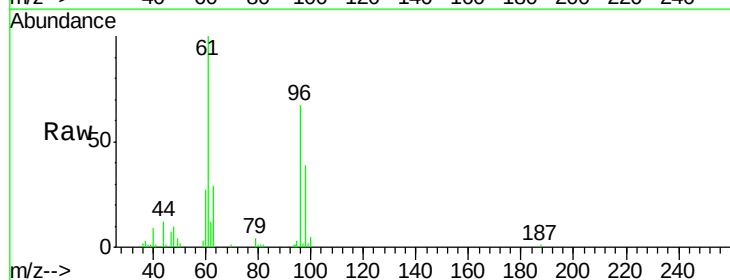
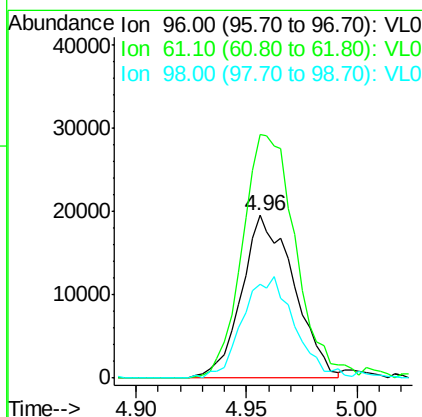
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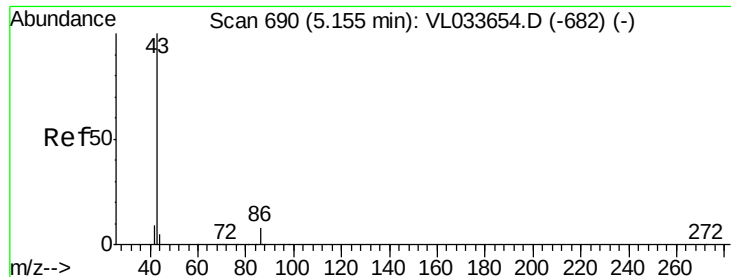
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#22
trans-1,2-Dichloroethene
Concen: 0.541 ppbv
RT: 4.96 min Scan# 628
Delta R.T. -0.01 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.8	123.1	184.7
98	60.6	52.6	79.0





#23

Vinyl Acetate

Concen: 0.451 ppbv

RT: 5.15 min Scan# 688

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

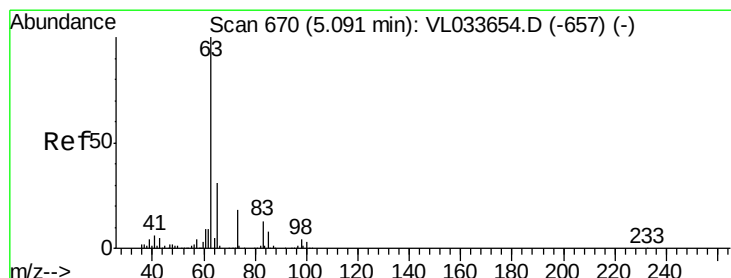
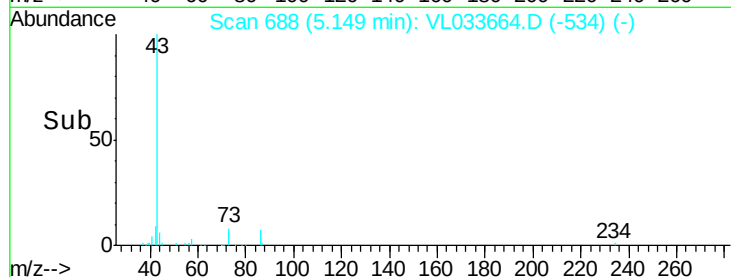
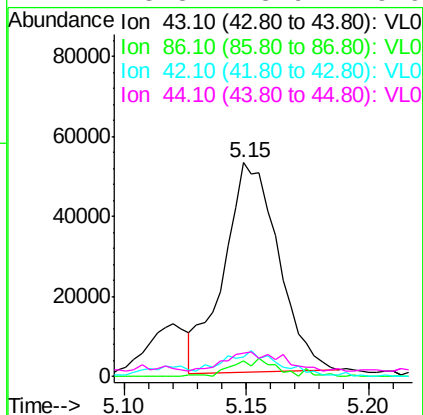
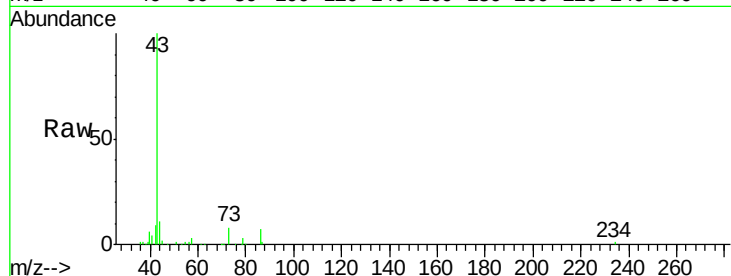
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	43	Resp:	81427
Ion	Ratio	Lower	Upper
43	100		
86	7.2	6.0	9.0
42	8.6	8.0	12.0
44	8.3	3.9	5.9

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 0.541 ppbv

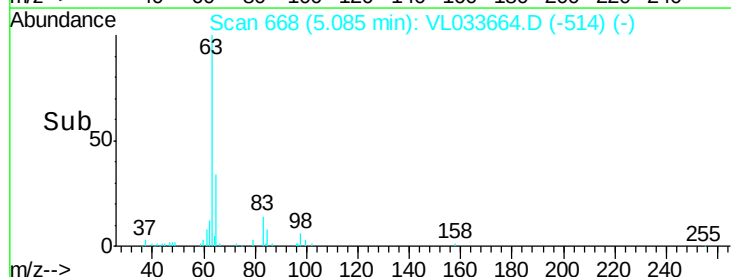
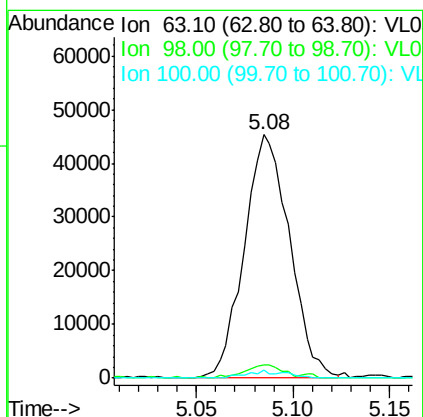
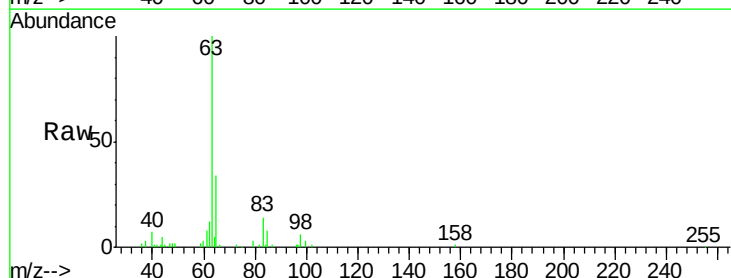
RT: 5.08 min Scan# 668

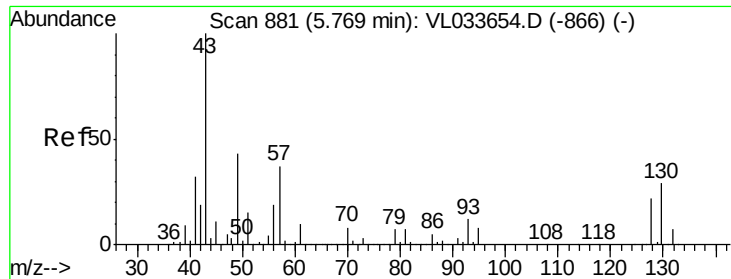
Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:	63	Resp:	73915
Ion	Ratio	Lower	Upper
63	100		
98	5.6	2.1	6.2
100	3.3	1.5	4.4





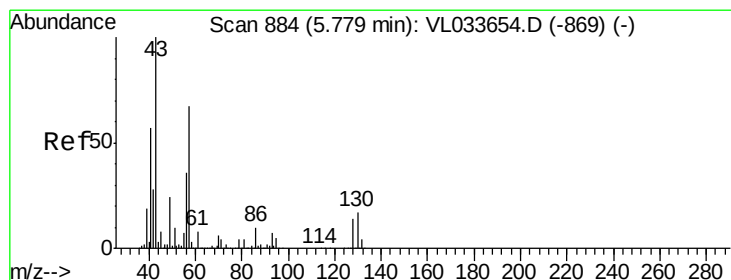
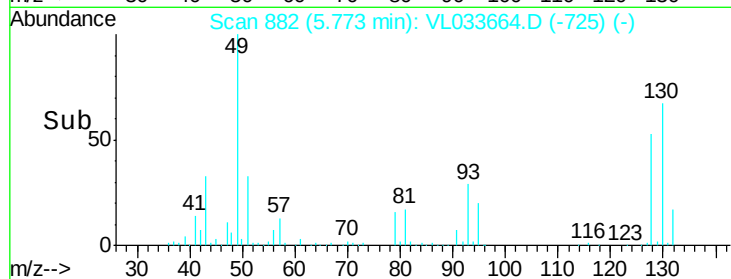
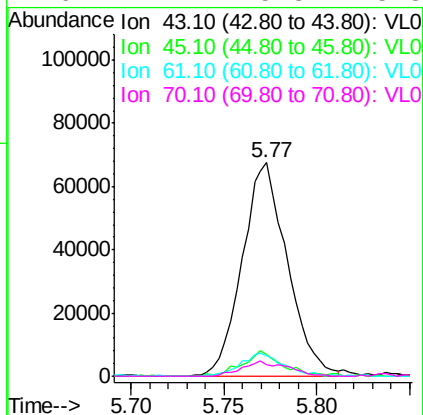
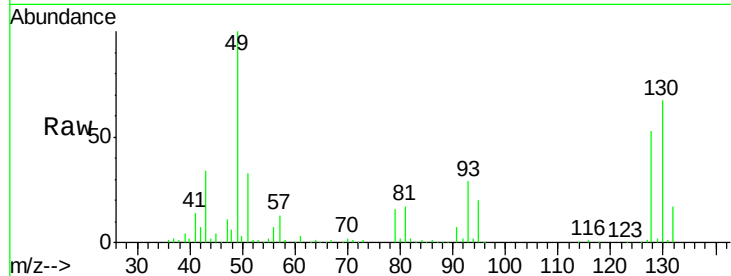
#25
Ethyl Acetate
Concen: 0.504 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	10.6	8.0	12.0		
61	10.3	7.5	11.3		
70	7.2	5.8	8.8		

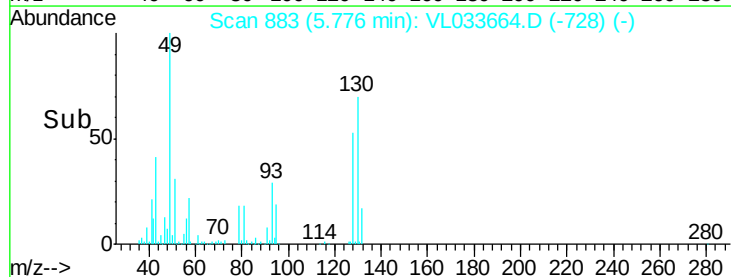
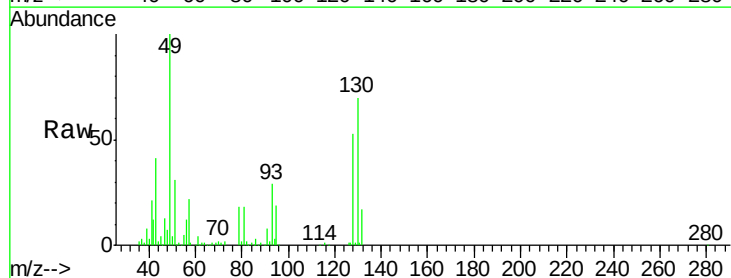
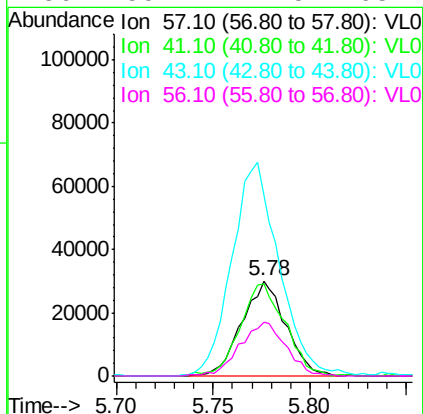
Manual Integrations
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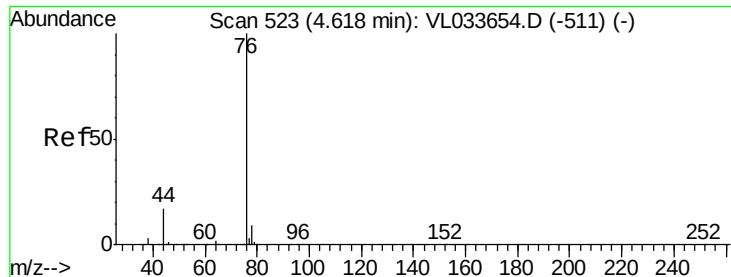
MMDadoda
5/8/2019 12:06:46 PM



#26
Hexane
Concen: 0.487 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	100.4	69.7	104.5		
43	244.0	181.9	272.9		
56	59.2	42.5	63.7		





#27

Carbon Disulfide

Concen: 0.460 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

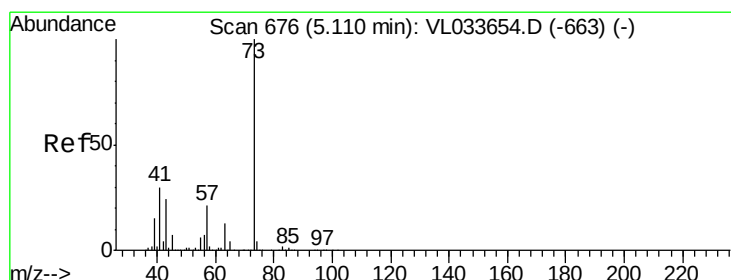
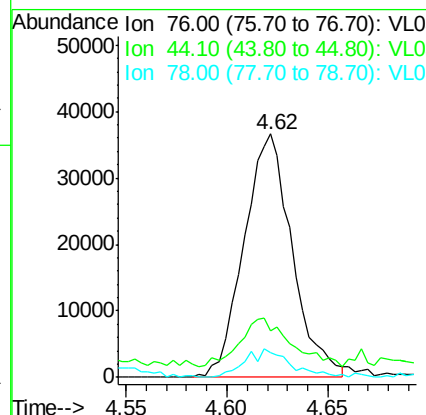
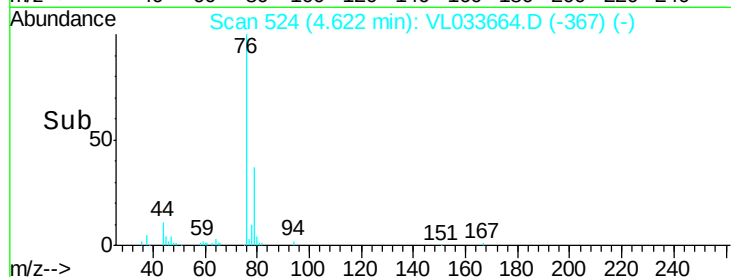
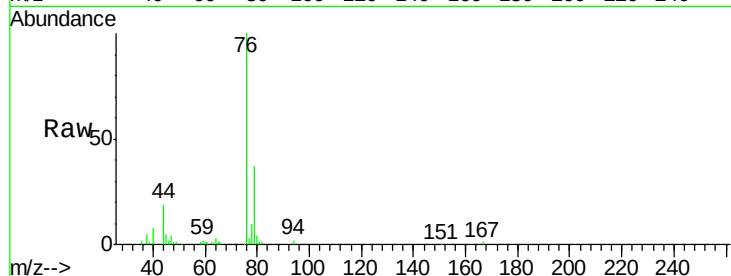
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	76	Resp:	61128
Ion	Ratio	Lower	Upper
76	100		
44	24.1	14.4	21.6#
78	11.7	7.4	11.2#

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.474 ppbv

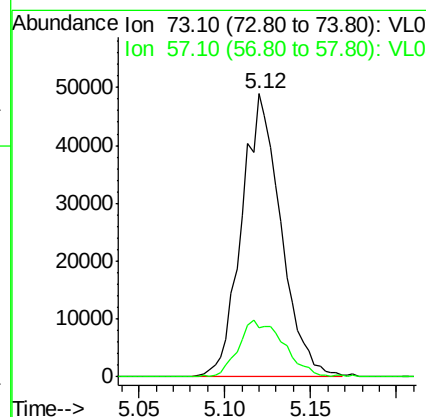
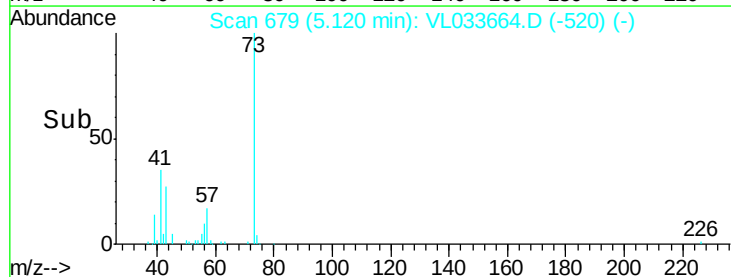
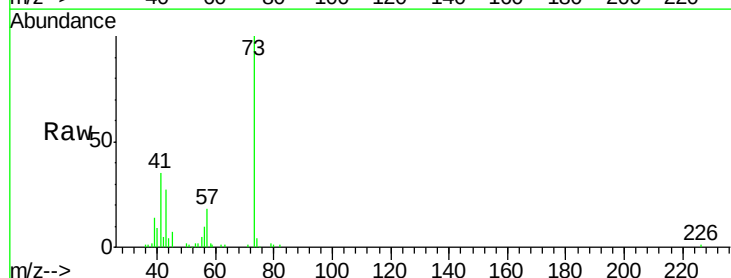
RT: 5.12 min Scan# 679

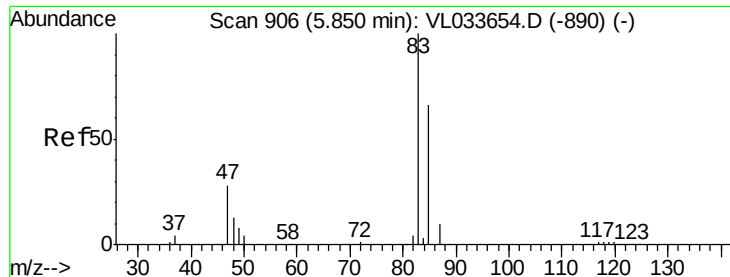
Delta R.T. 0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:	73	Resp:	77717
Ion	Ratio	Lower	Upper
73	100		
57	22.9	17.4	26.0





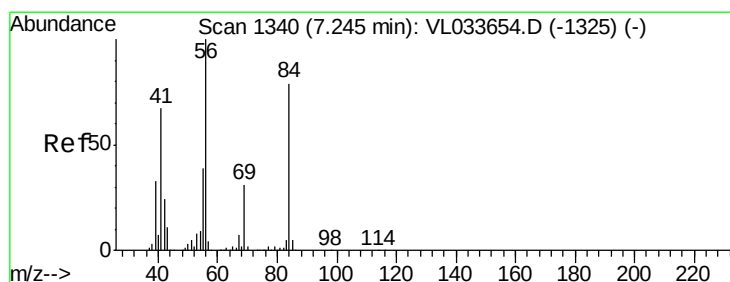
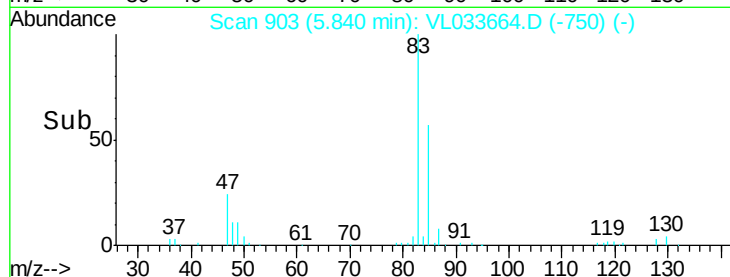
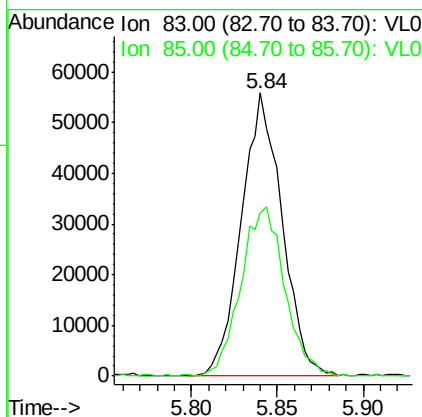
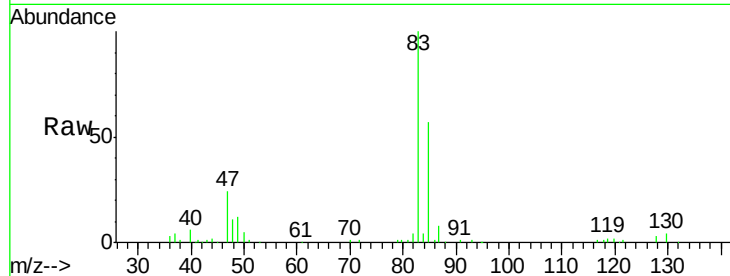
#29
Chloroform
Concen: 0.524 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion: 83 Resp: 91703
Ion Ratio Lower Upper
83 100
85 57.5 52.6 78.8

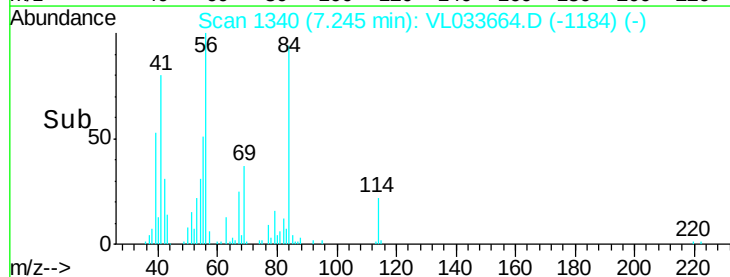
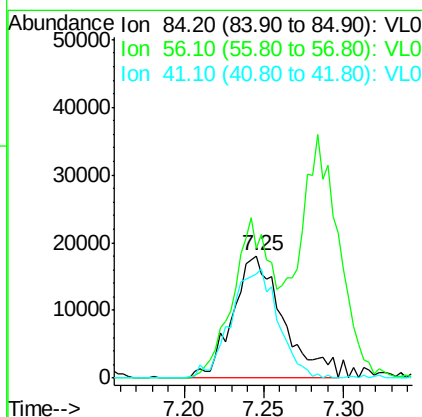
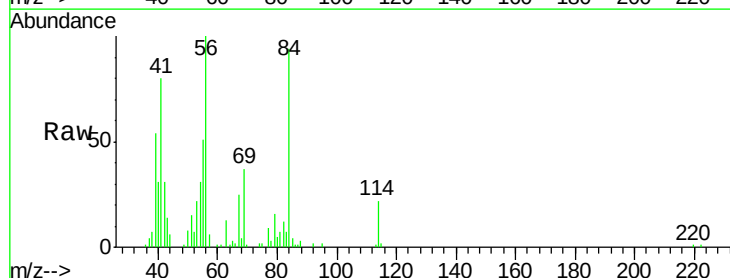
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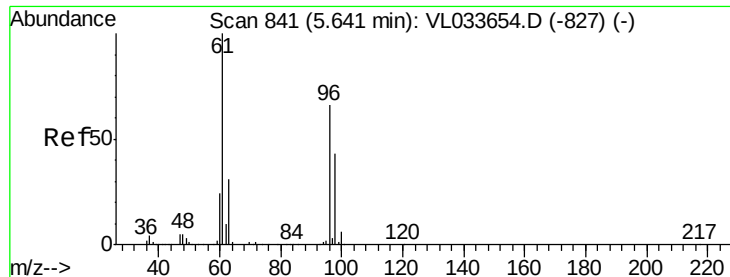
MMDadoda
5/8/2019 12:06:46 PM



#30
Cyclohexane
Concen: 0.486 ppbv m
RT: 7.25 min Scan# 1340
Delta R.T. 0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion: 84 Resp: 39668
Ion Ratio Lower Upper
84 100
56 97.2 107.0 160.4#
41 83.8 66.6 99.8





#31

cis-1,2-Dichloroethene

Concen: 0.481 ppbv

RT: 5.63 min Scan# 838

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

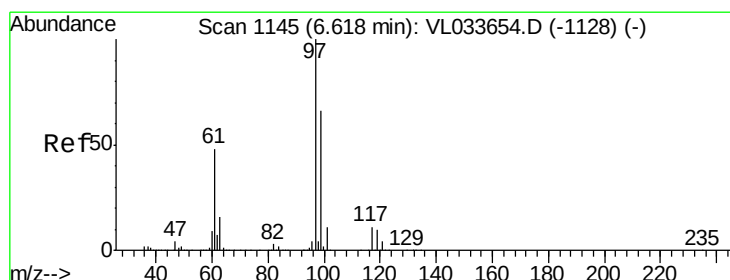
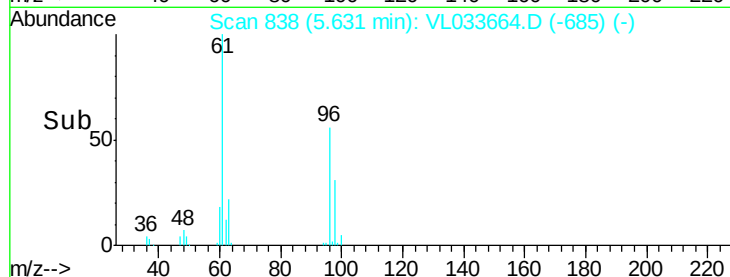
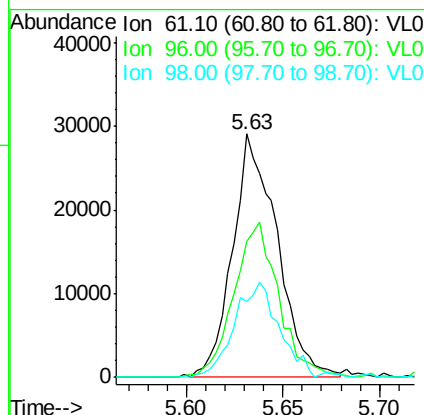
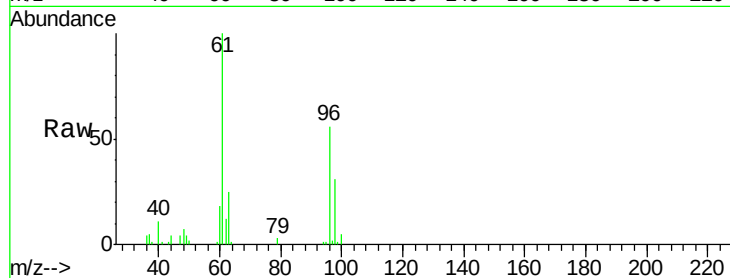
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	61	Resp:	46515
Ion	Ratio	Lower	Upper
61	100		
96	56.7	53.2	79.8
98	32.2	34.2	51.4#

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#32

1,1,1-Trichloroethane

Concen: 0.502 ppbv

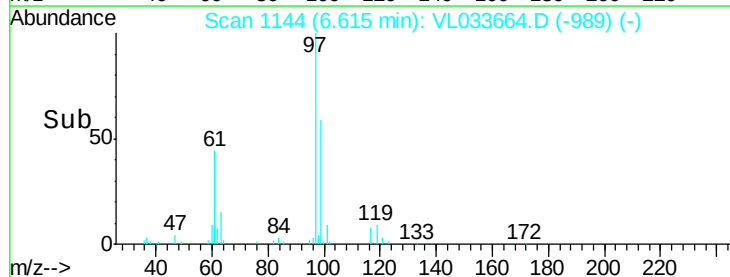
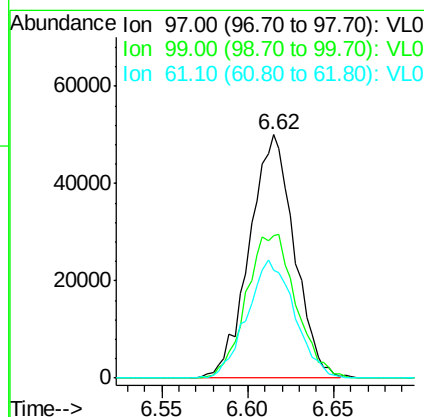
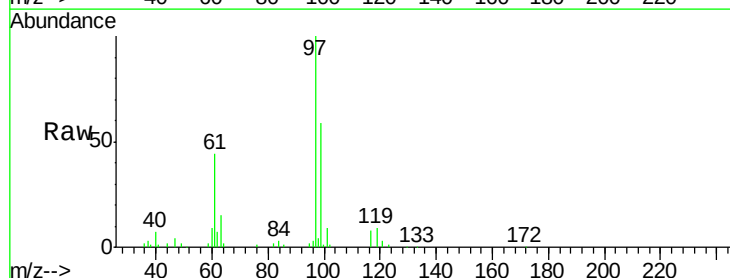
RT: 6.62 min Scan# 1144

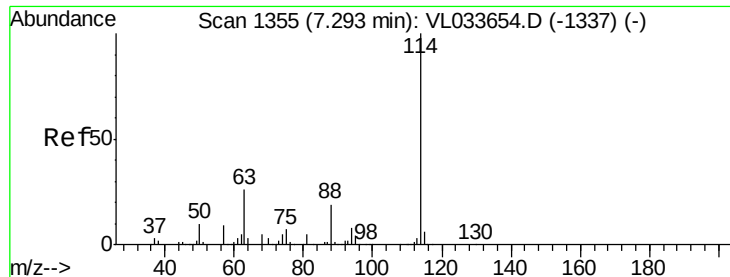
Delta R.T. -0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:	97	Resp:	90572
Ion	Ratio	Lower	Upper
97	100		
99	65.4	51.4	77.2
61	51.4	38.5	57.7





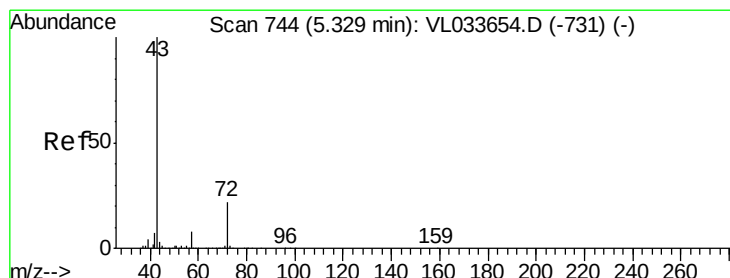
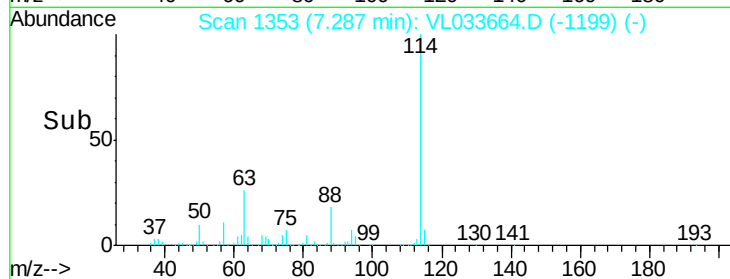
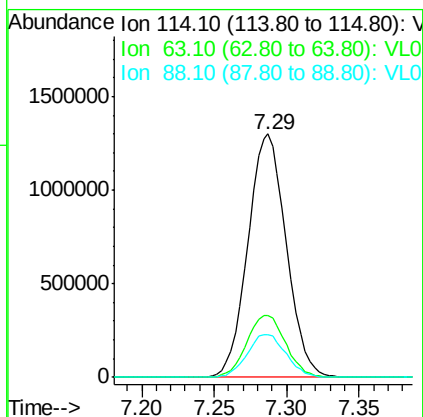
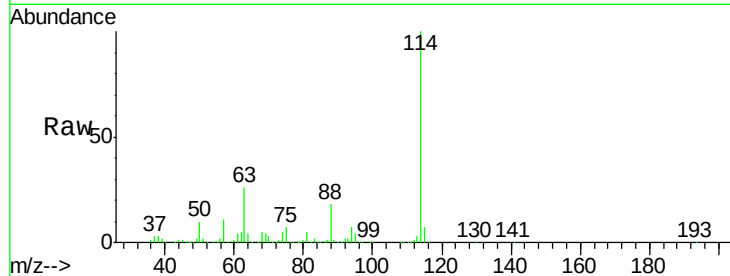
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.1	21.3	31.9
88	18.0	14.4	21.6

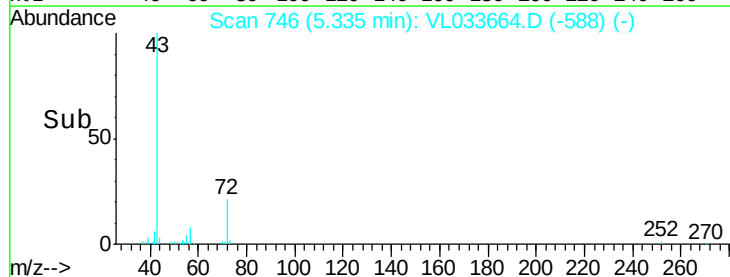
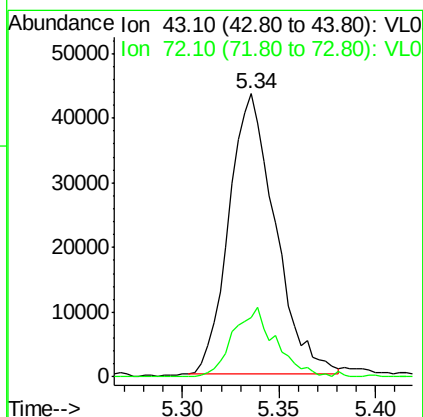
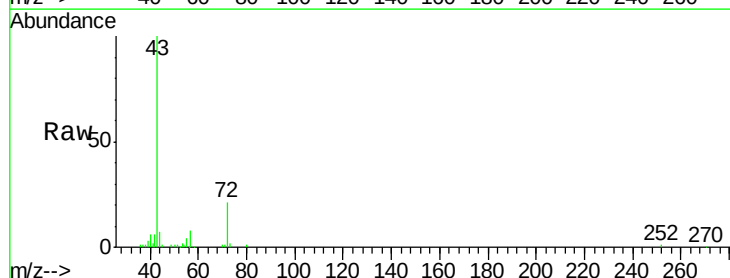
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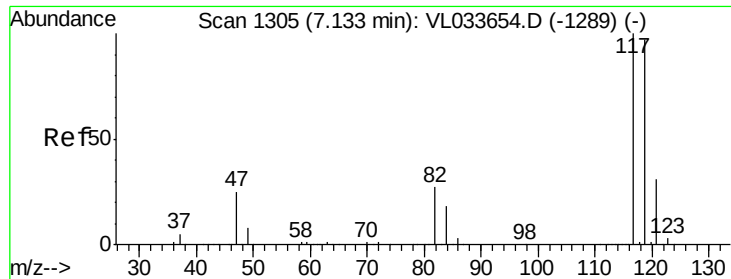
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#34
 2-Butanone
 Concen: 0.471 ppbv
 RT: 5.34 min Scan# 746
 Delta R.T. 0.01 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.2	17.5	26.3





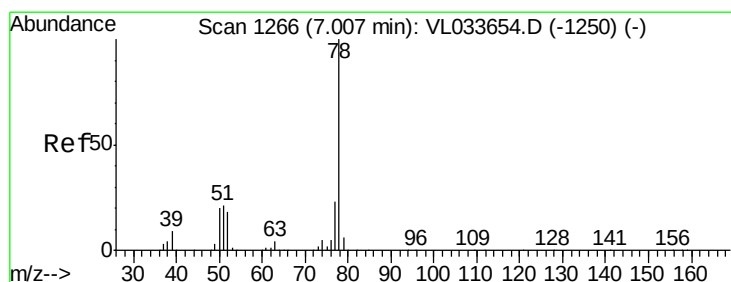
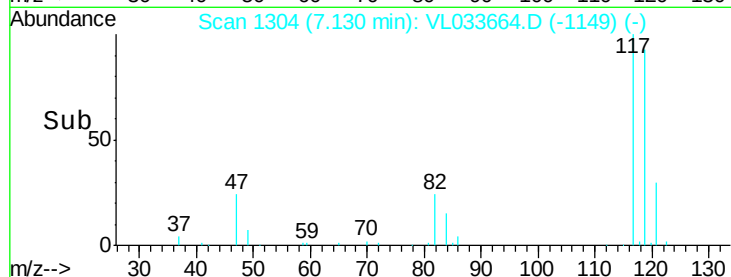
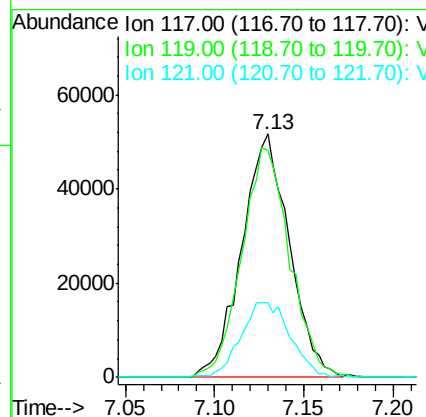
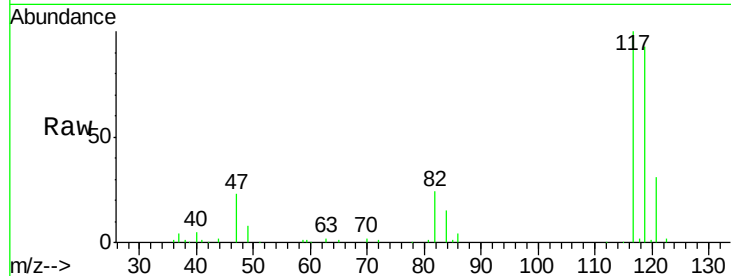
#35
Carbon Tetrachloride
Concen: 0.490 ppbv
RT: 7.13 min Scan# 1304
Delta R.T. -0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.1	77.9	116.9
121	30.2	25.0	37.6

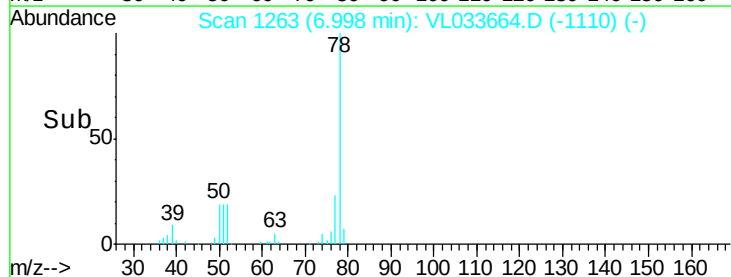
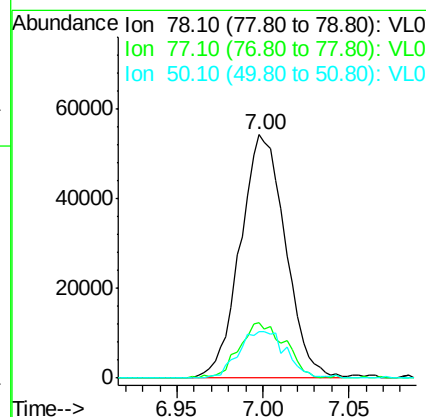
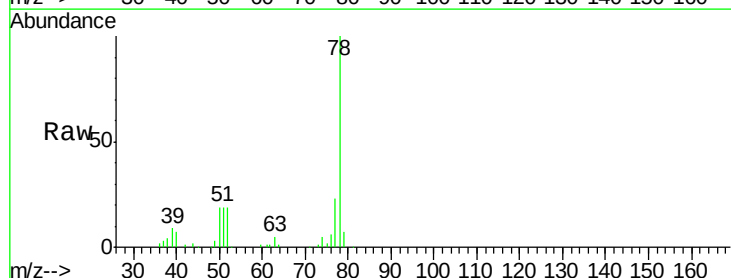
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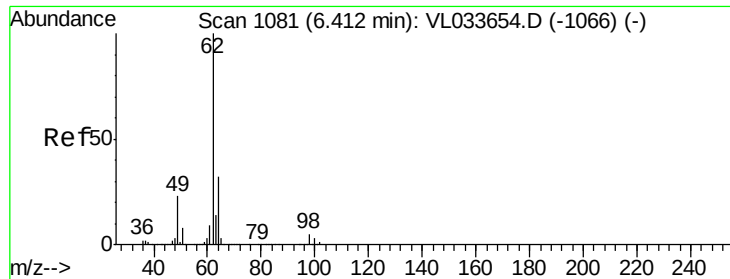
MMDadoda
5/8/2019 12:06:46 PM



#36
Benzene
Concen: 0.461 ppbv
RT: 7.00 min Scan# 1263
Delta R.T. -0.01 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.7	18.2	27.2
50	19.0	15.8	23.6





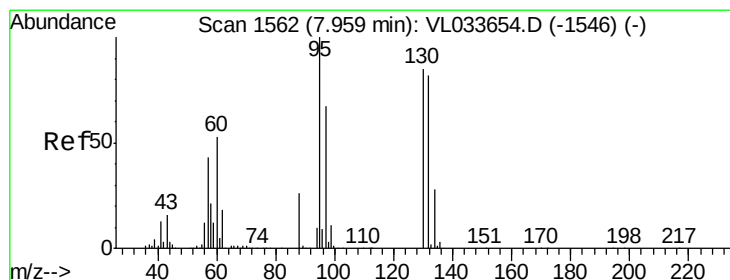
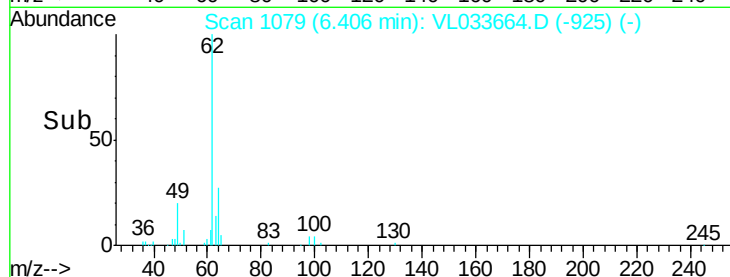
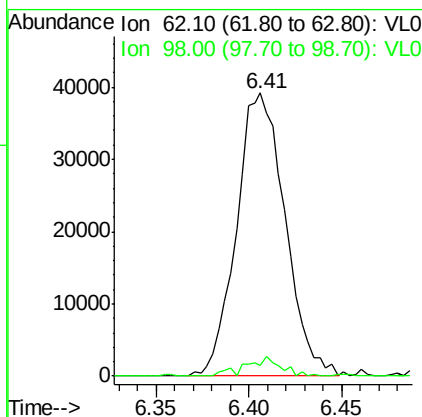
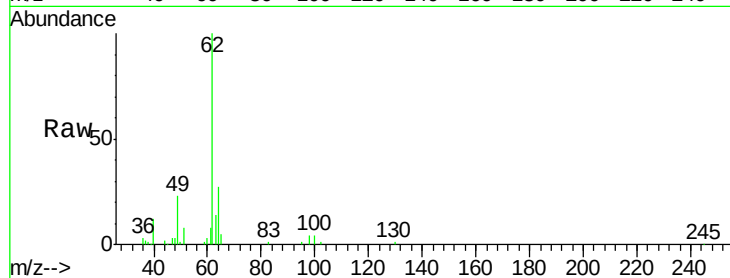
#37
 1,2-Dichloroethane
 Concen: 0.476 ppbv
 RT: 6.41 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
62	100		
98	5.1	4.5	6.7

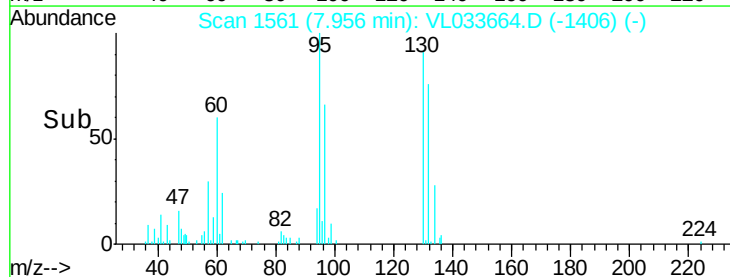
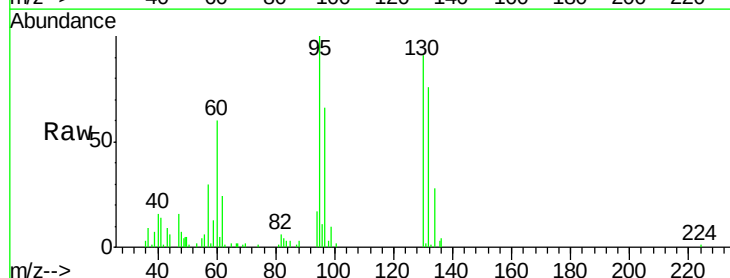
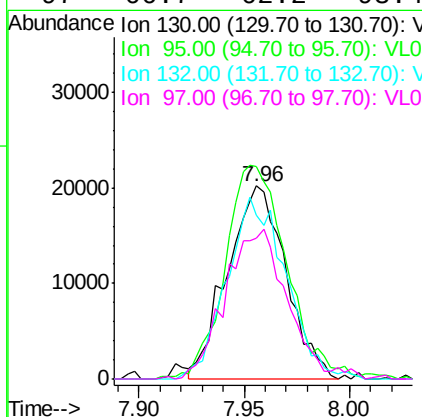
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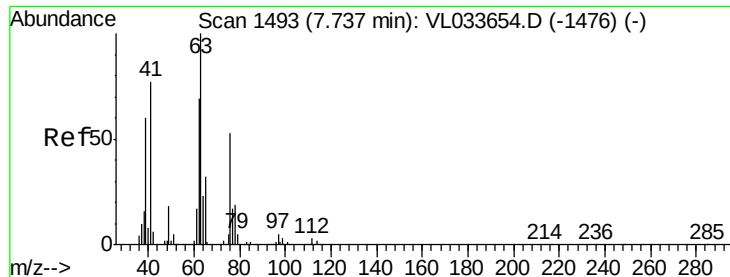
MMDadoda
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#38
 Trichloroethene
 Concen: 0.493 ppbv
 RT: 7.96 min Scan# 1561
 Delta R.T. -0.00 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
130	100		
95	105.1	93.4	140.0
132	80.1	76.2	114.4
97	66.7	62.2	93.4





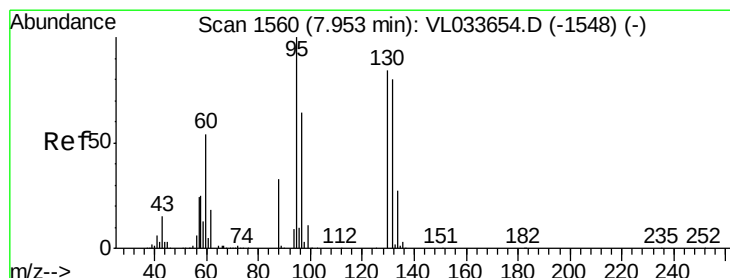
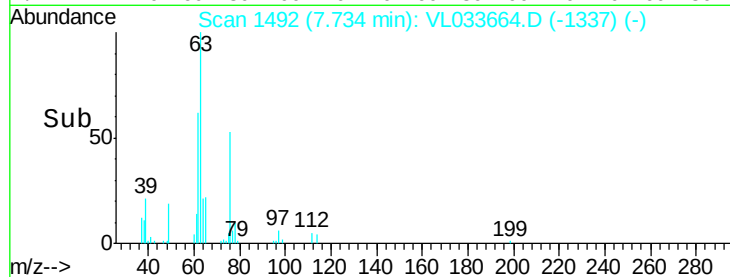
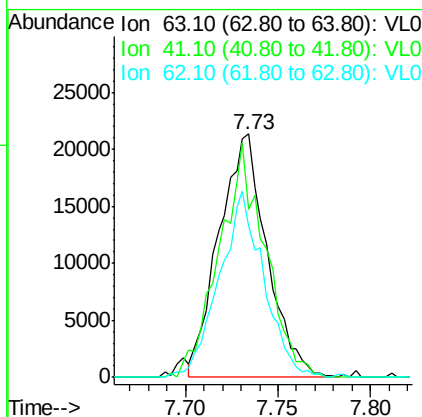
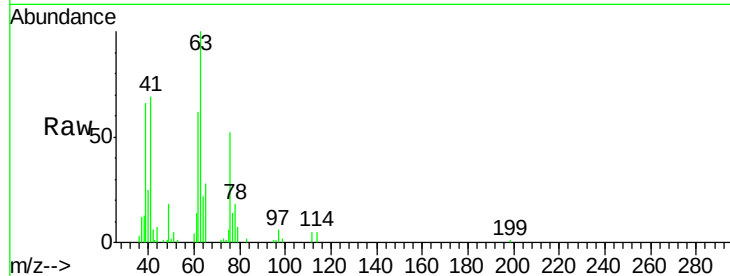
#39
 1,2-Dichloropropane
 Concen: 0.479 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.00 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion:	63	Resp:	38301
Ion Ratio	Lower	Upper	
63	100		
41	69.1	61.6	92.4
62	61.1	55.0	82.6

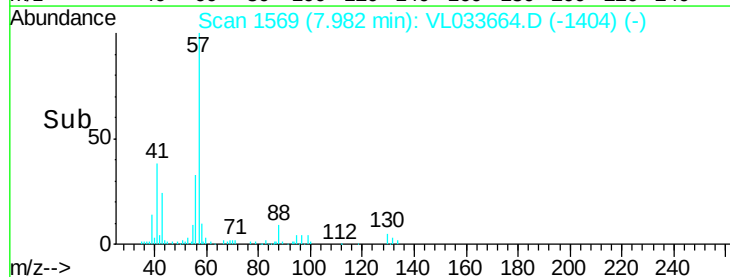
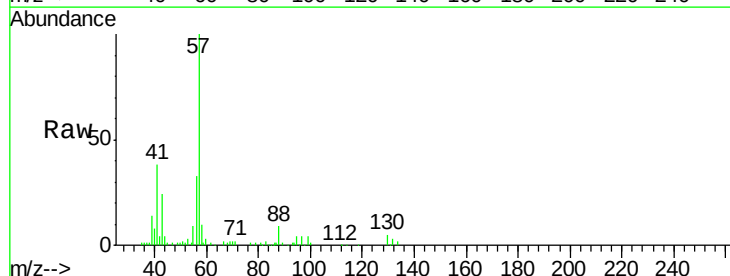
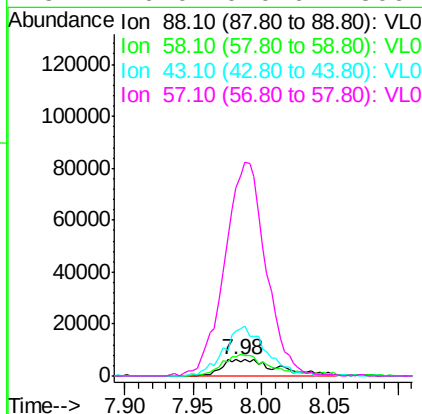
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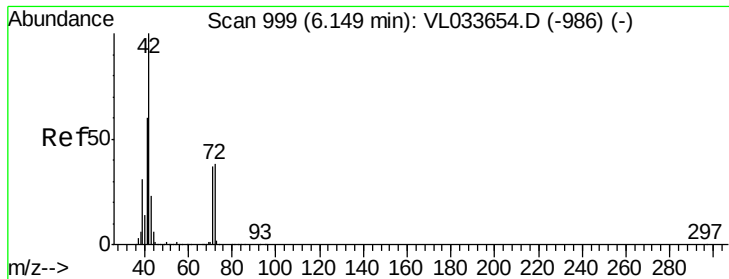
MMDadoda
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#40
 1,4-Dioxane
 Concen: 0.563 ppbv m
 RT: 7.98 min Scan# 1569
 Delta R.T. 0.03 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Tgt Ion:	88	Resp:	17997
Ion Ratio	Lower	Upper	
88	100		
58	0.0	102.3	153.5#
43	0.0	206.1	309.1#
57	0.0	910.6	1366.0#





#41

Tetrahydrofuran

Concen: 0.439 ppbv

RT: 6.16 min Scan# 1004

Delta R.T. 0.02 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

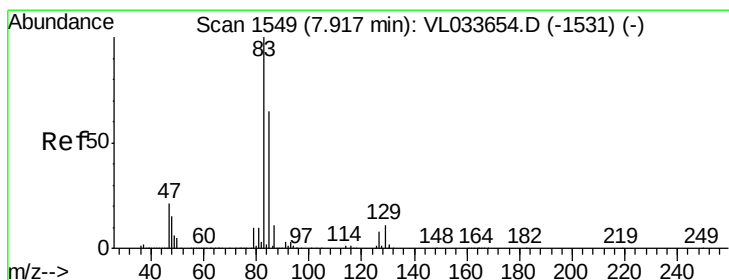
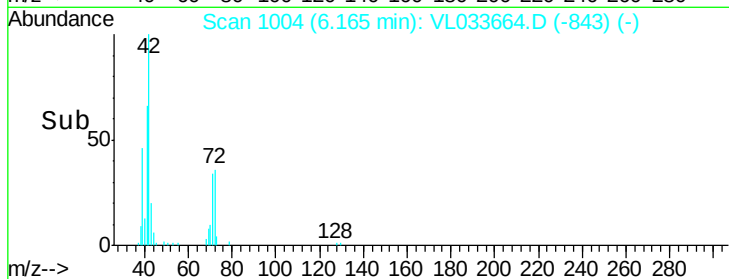
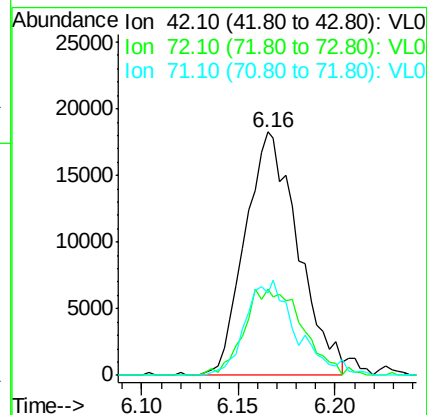
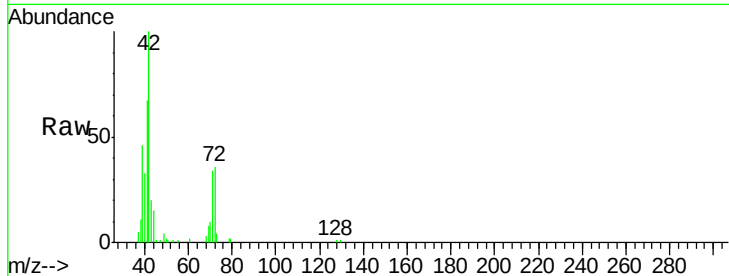
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	42	Resp:	34788
Ion	Ratio	Lower	Upper
42	100		
72	39.3	31.6	47.4
71	37.3	30.6	46.0

Manual Integrations
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#42

Bromodichloromethane

Concen: 0.475 ppbv

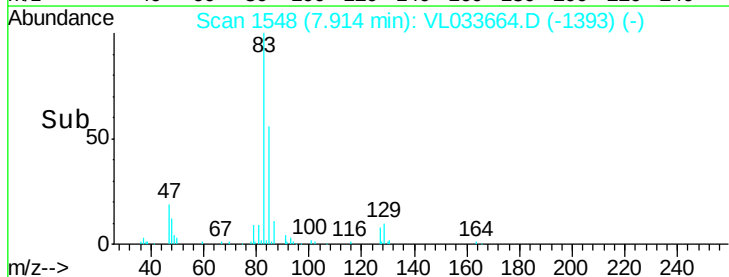
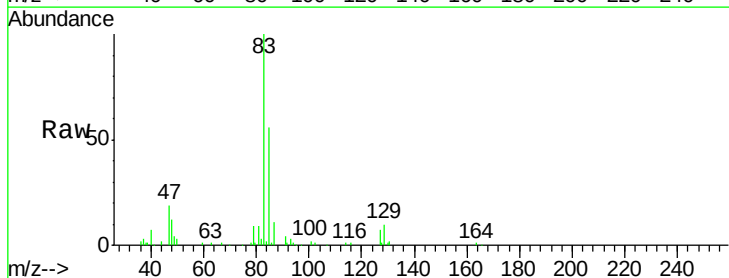
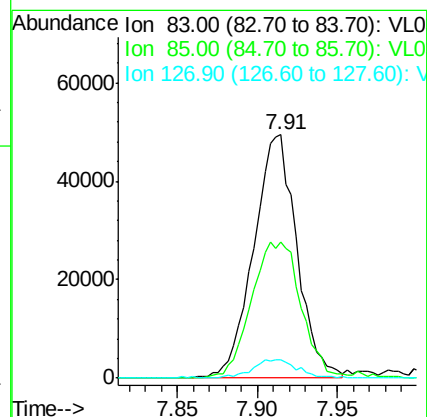
RT: 7.91 min Scan# 1548

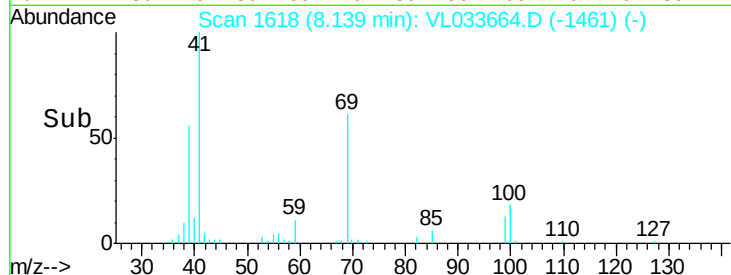
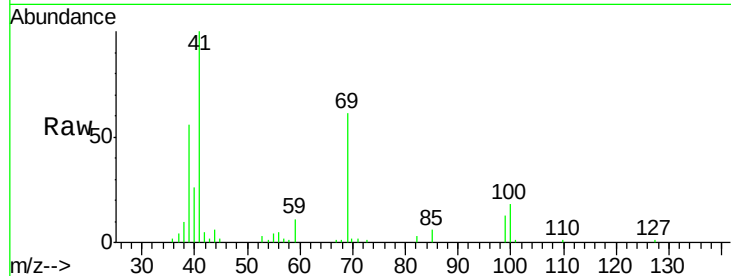
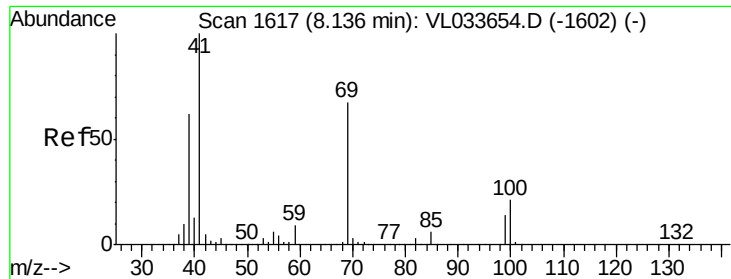
Delta R.T. -0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:	83	Resp:	91746
Ion	Ratio	Lower	Upper
83	100		
85	54.8	52.4	78.6
127	6.9	6.6	9.8





#43

Methyl Methacrylate

Concen: 0.415 ppbv

RT: 8.14 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

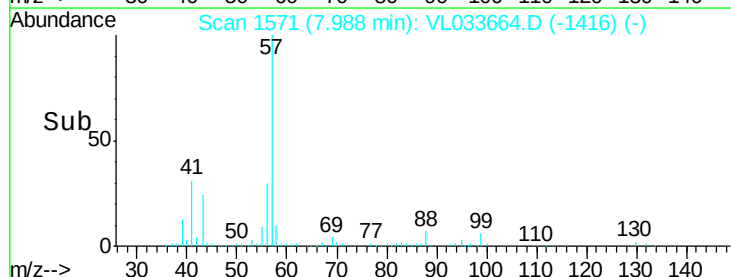
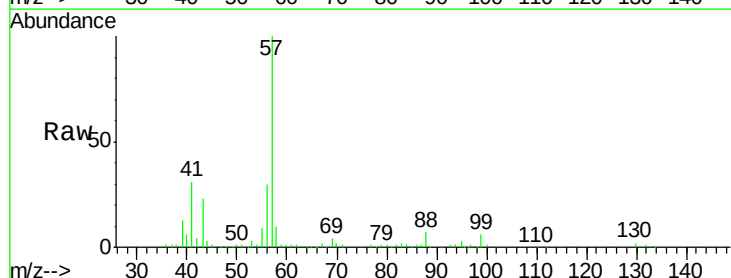
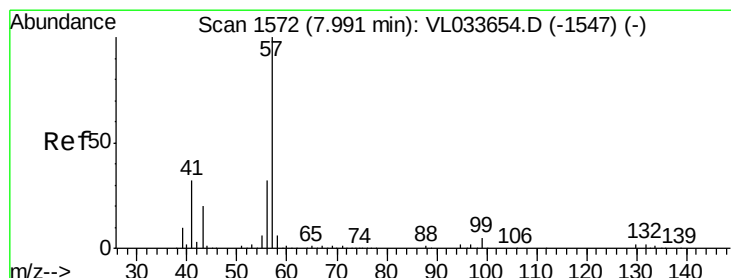
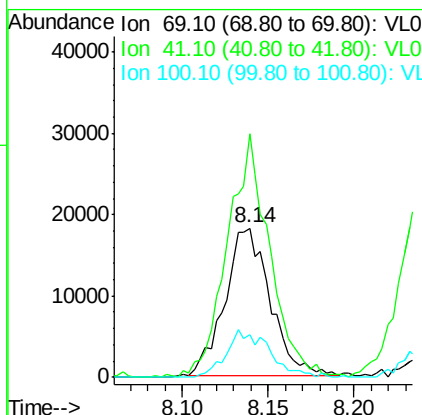
Tot Ion	Ratio	Lower	Upper
69	100		
41	153.3	116.6	175.0
100	30.4	24.6	37.0

Instrument :
MSVOA_L

ClientSampleId :
LOQ-AIR-02-QT2-2019

Manual Integrations
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#44

2,2,4-Trimethylpentane

Concen: 0.465 ppbv

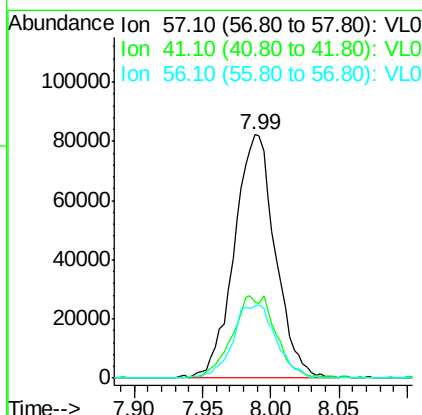
RT: 7.99 min Scan# 1571

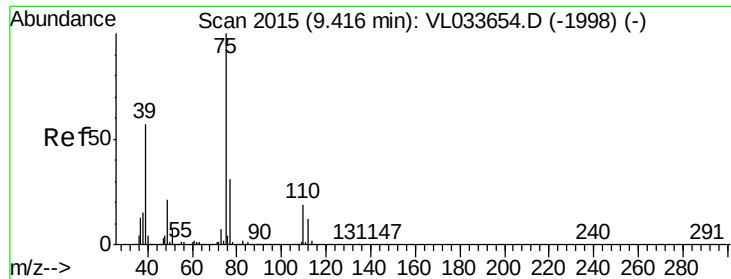
Delta R.T. -0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.6	25.7	38.5
56	32.0	25.0	37.6





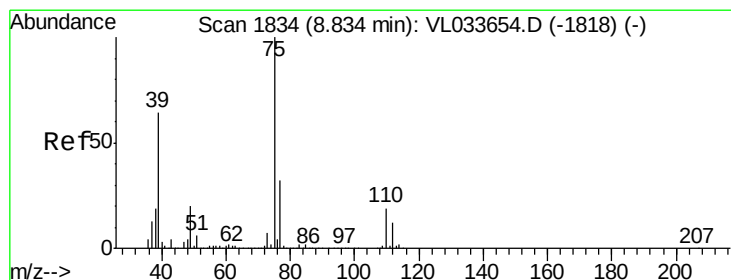
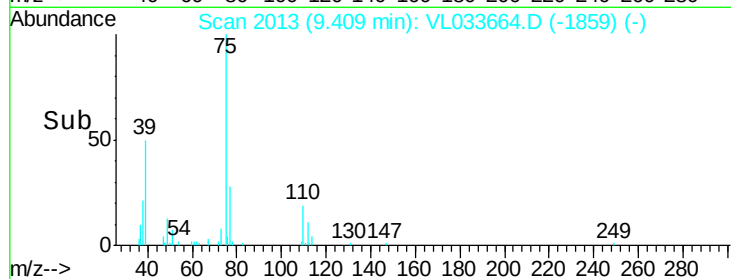
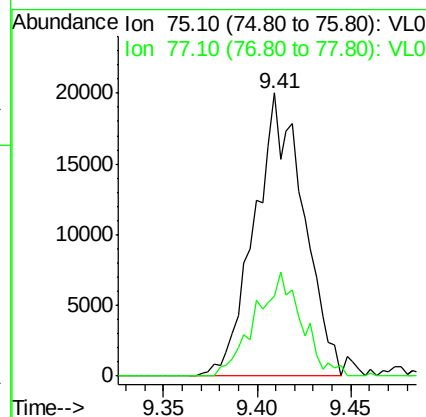
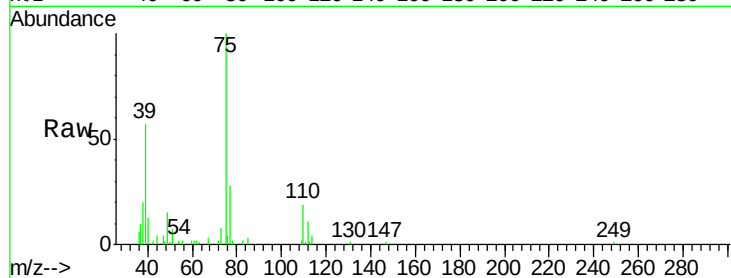
#45
 t-1,3-Dichloropropene
 Concen: 0.368 ppbv m
 RT: 9.41 min Scan# 2013
 Delta R.T. -0.01 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion: 75 Resp: 36422
 Ion Ratio Lower Upper
 75 100
 77 28.2 24.7 37.1

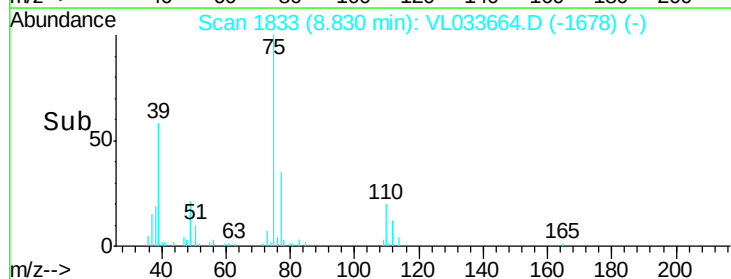
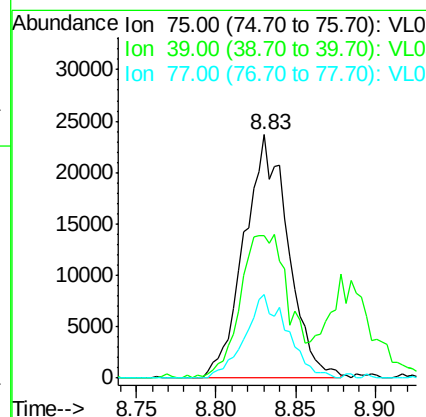
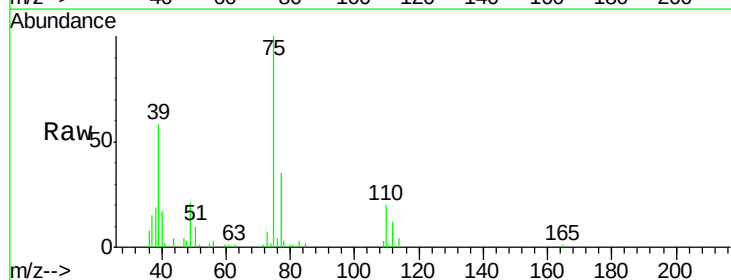
Manual Integrations
 APPROVED

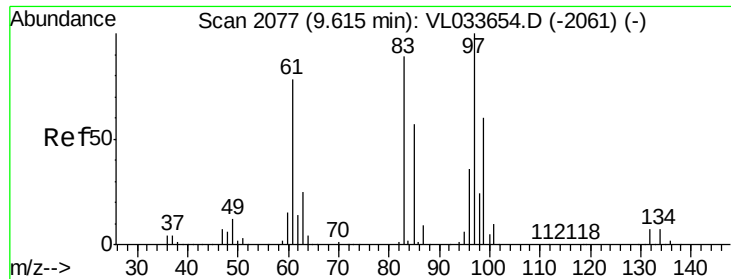
MMDadoda
 5/8/2019 12:06:46 PM



#46
 cis-1,3-Dichloropropene
 Concen: 0.368 ppbv m
 RT: 8.83 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Tgt Ion: 75 Resp: 45467
 Ion Ratio Lower Upper
 75 100
 39 58.4 51.5 77.3
 77 34.5 25.4 38.0





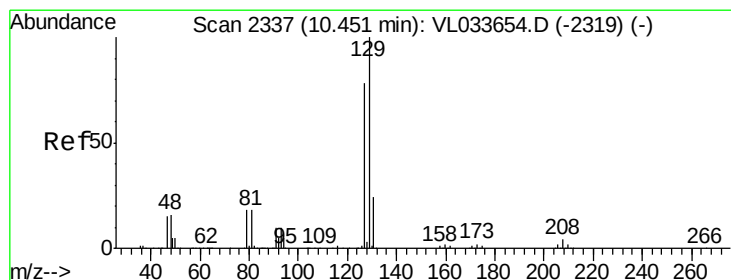
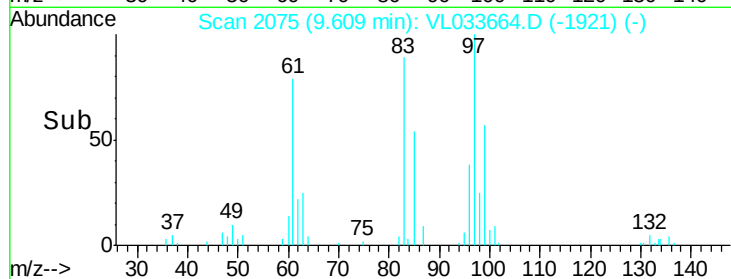
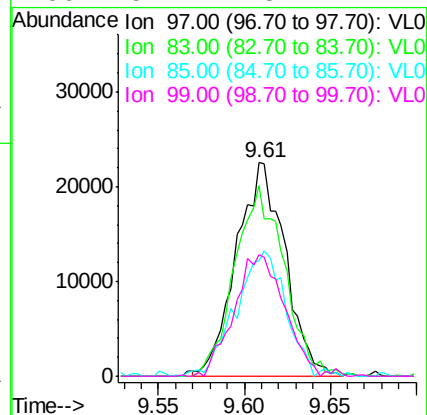
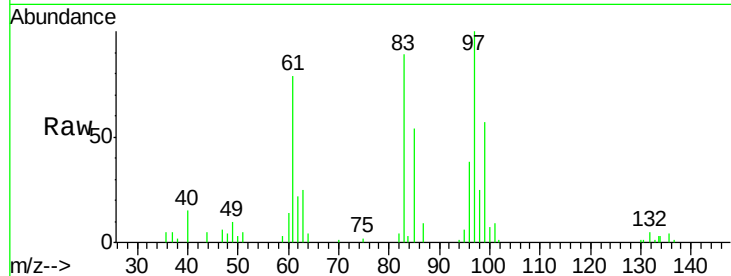
#47
 1,1,2-Trichloroethane
 Concen: 0.480 ppbv
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		44102		
83	92.1		70.9	106.3	
85	53.9		45.8	68.6	
99	57.1		48.2	72.4	

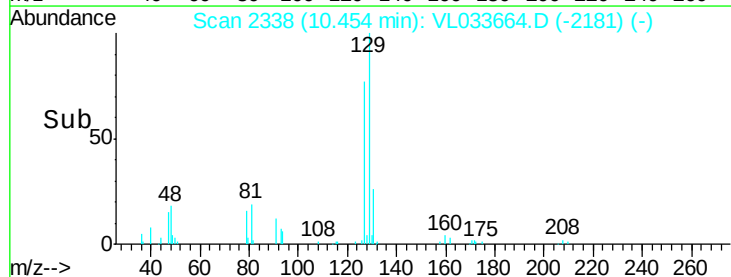
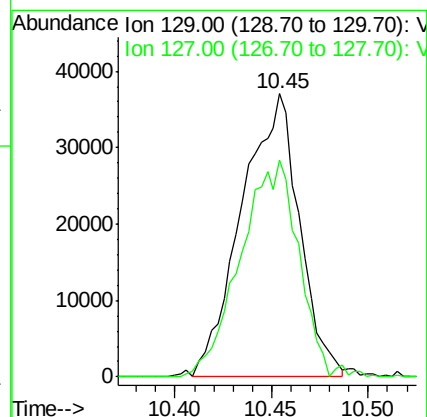
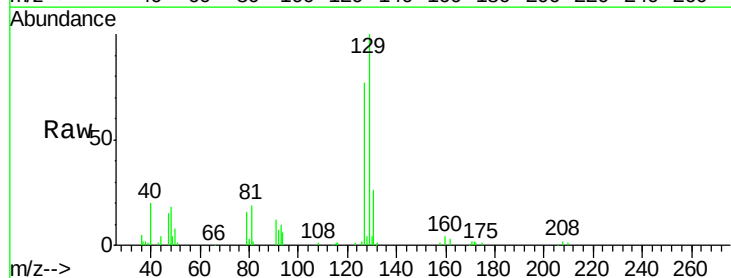
Manual Integrations
 APPROVED

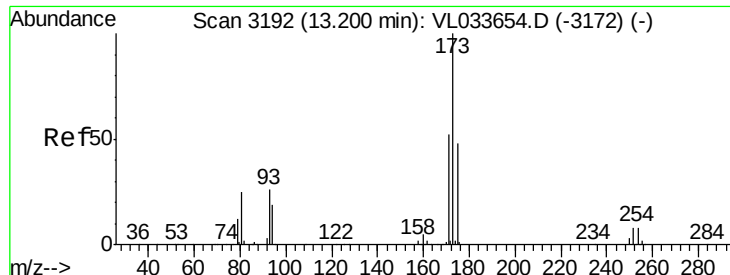
MMDadoda
 5/8/2019 12:06:46 PM



#48
 Dibromochloromethane
 Concen: 0.492 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. 0.00 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		76575		
127	77.8		39.1	117.2	





#49

Bromoform

Concen: 0.411 ppbv m

RT: 13.20 min Scan# 3192

Delta R.T. 0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:173 Resp: 55580

Ion Ratio Lower Upper

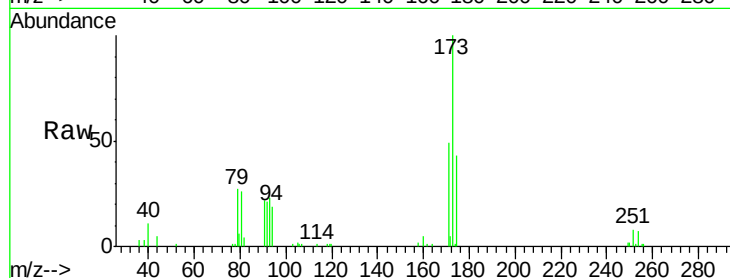
173 100

175 0.0 39.3 58.9#

171 53.8 41.5 62.3

Manual Integrations
APPROVED

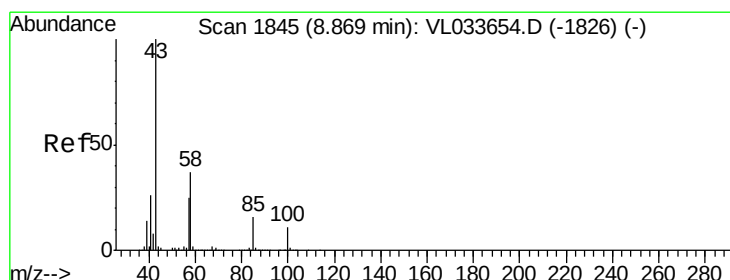
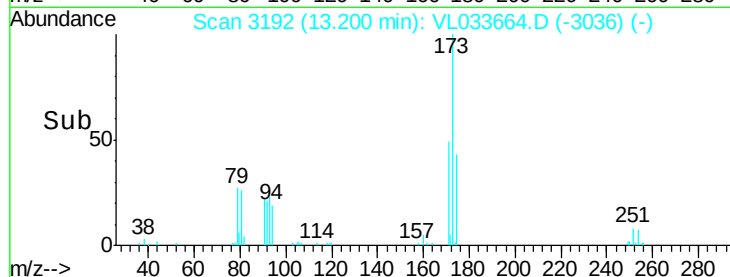
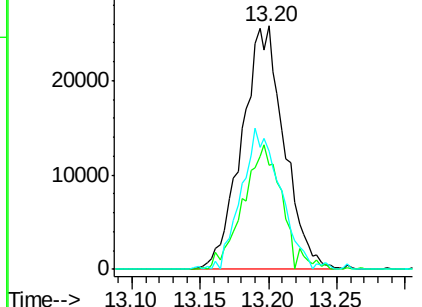
MMDadoda
5/8/2019 12:06:46 PM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.442 ppbv

RT: 8.89 min Scan# 1850

Delta R.T. 0.02 min

Lab File: VL033664.D

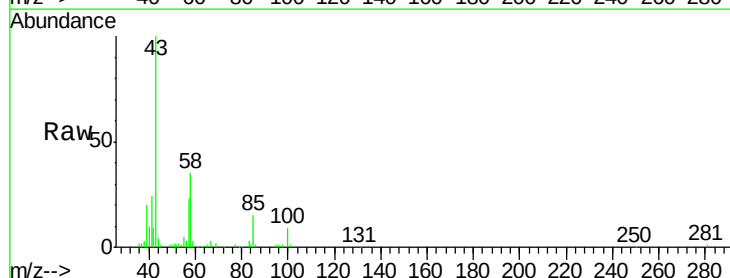
Acq: 6 May 2019 18:30

Tgt Ion: 43 Resp: 102500

Ion Ratio Lower Upper

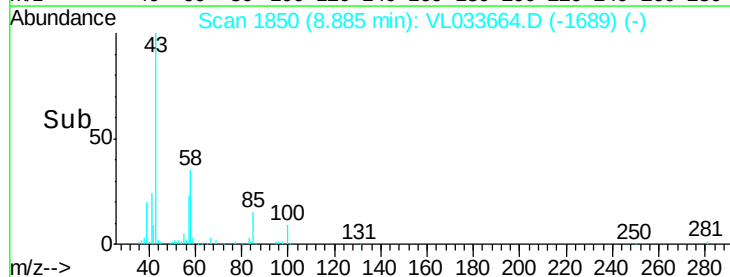
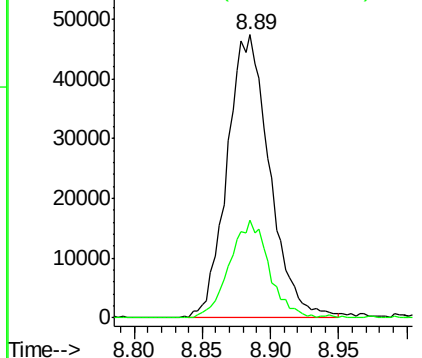
43 100

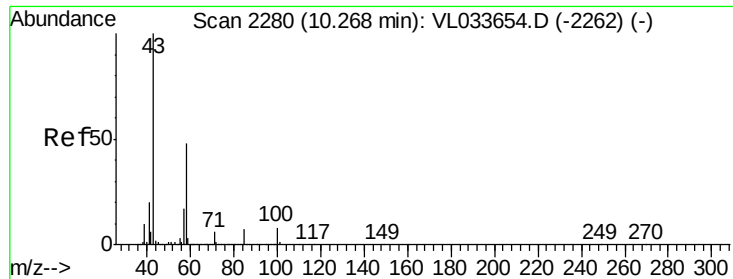
58 32.2 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





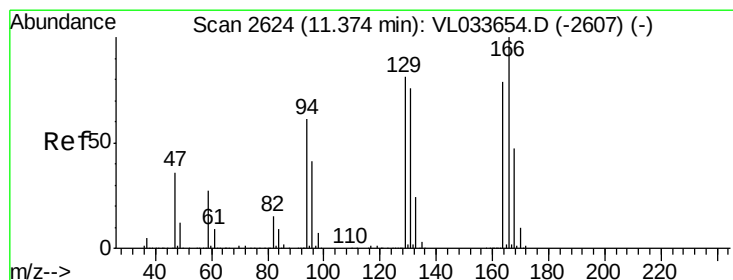
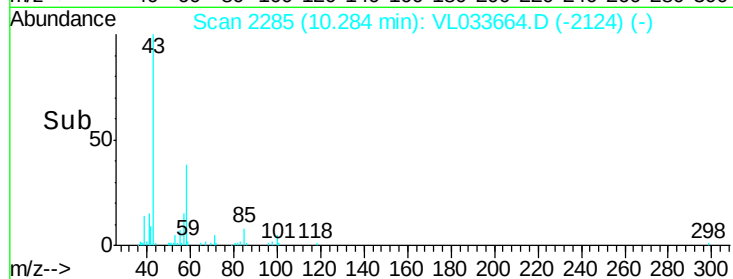
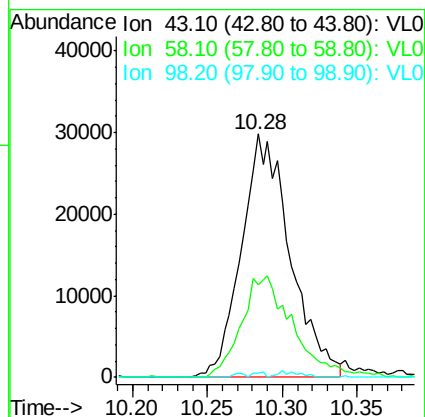
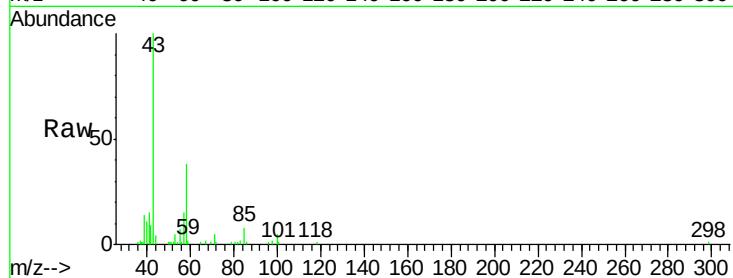
#51
2-Hexanone
Concen: 0.376 ppbv
RT: 10.28 min Scan# 2285
Delta R.T. 0.02 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	44.2	38.2	57.4
98	0.8	0.2	0.4

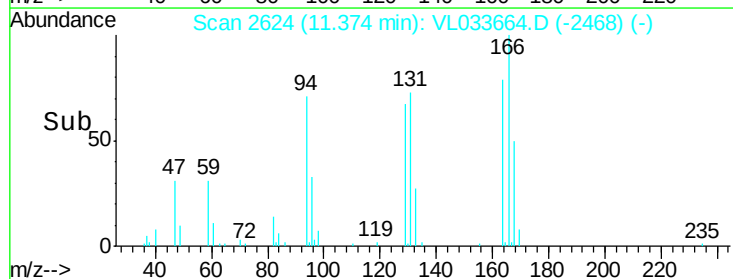
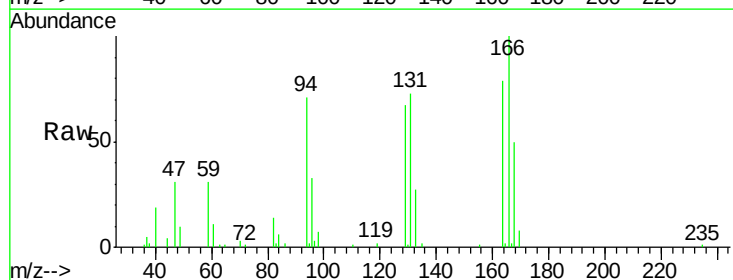
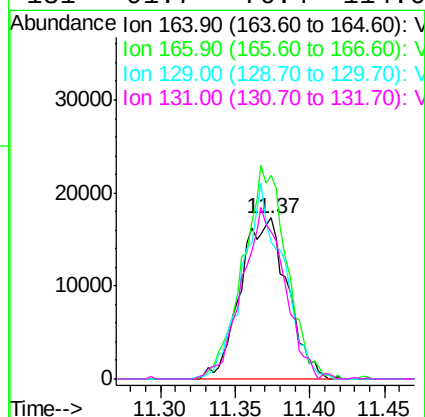
Manual Integrations
APPROVED

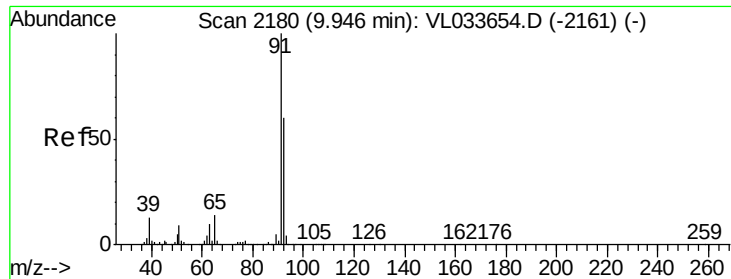
MMDadoda
5/8/2019 12:06:46 PM



#52
Tetrachloroethene
Concen: 0.496 ppbv m
RT: 11.37 min Scan# 2624
Delta R.T. 0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.2	100.6	151.0
129	84.7	81.0	121.6
131	91.7	76.4	114.6





#53

Toluene

Concen: 0.379 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion: 91 Resp: 87821

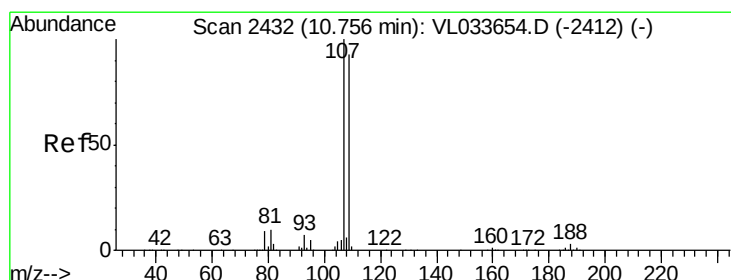
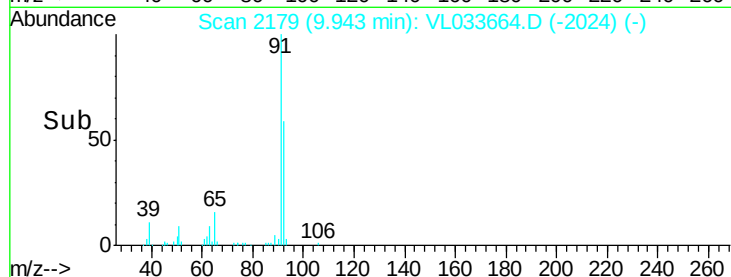
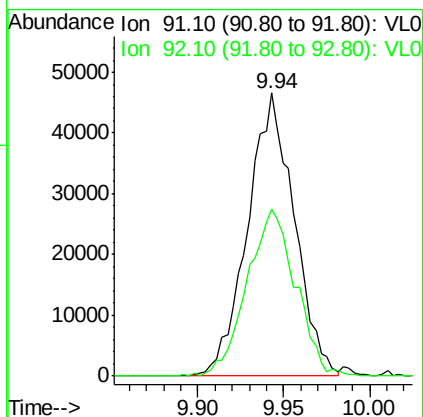
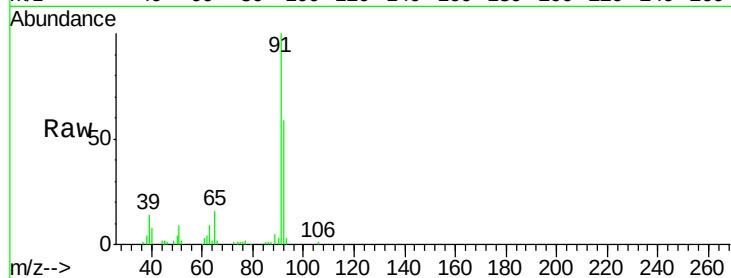
Ion Ratio Lower Upper

91 100

92 61.6 47.7 71.5

Manual Integrations
APPROVED

MMDadoda
5/8/2019 12:06:46 PM



#54

1,2-Dibromoethane

Concen: 0.458 ppbv

RT: 10.75 min Scan# 2431

Delta R.T. -0.00 min

Lab File: VL033664.D

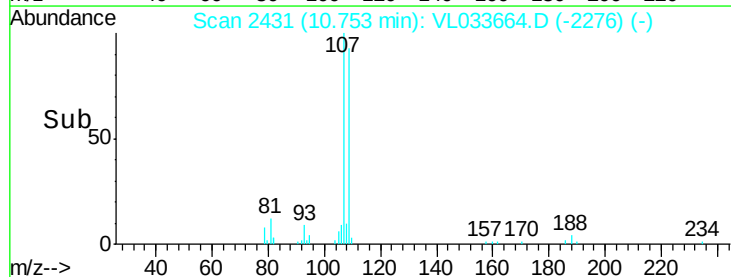
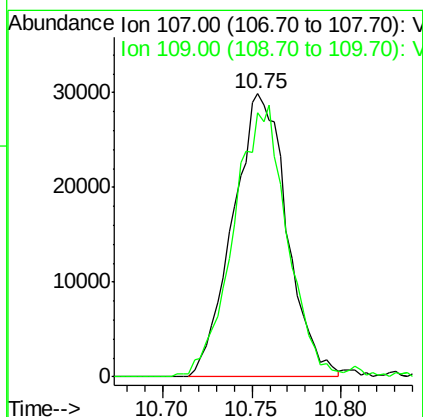
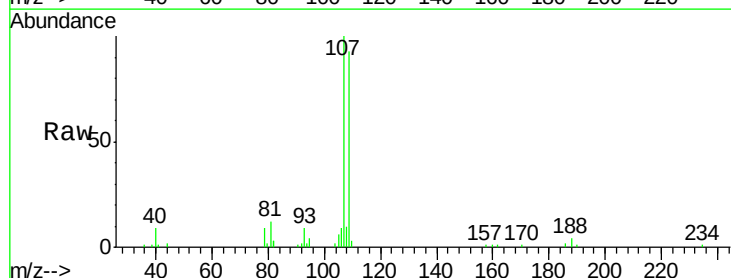
Acq: 6 May 2019 18:30

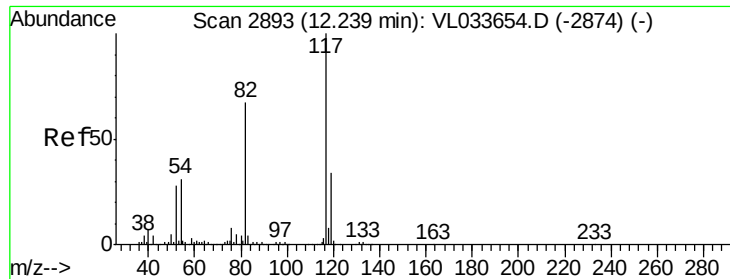
Tgt Ion: 107 Resp: 63324

Ion Ratio Lower Upper

107 100

109 92.0 74.6 111.8





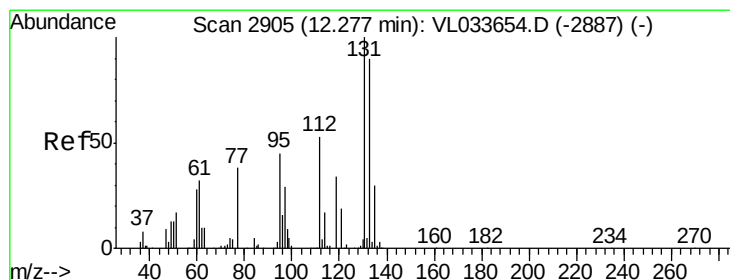
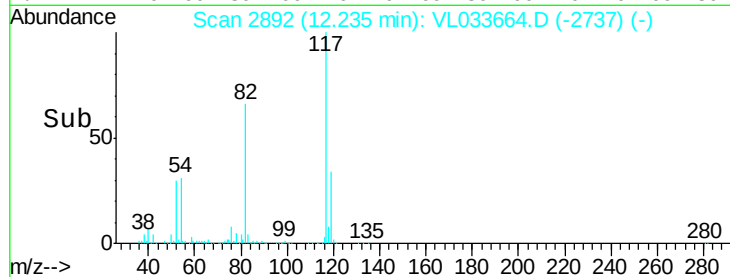
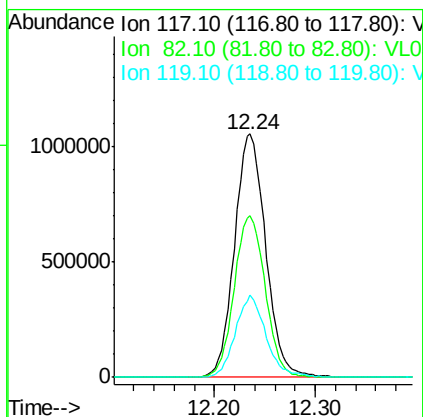
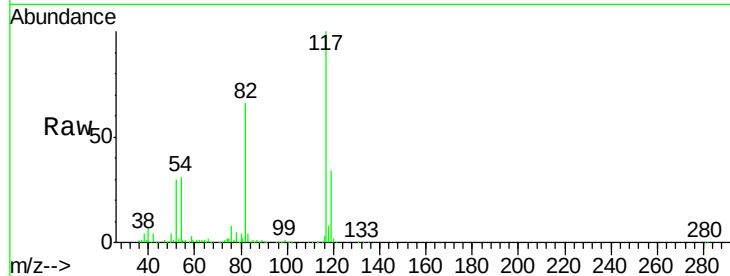
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion:117 Resp: 2271468
Ion Ratio Lower Upper
117 100
82 66.2 49.7 74.5
119 33.4 24.8 37.2

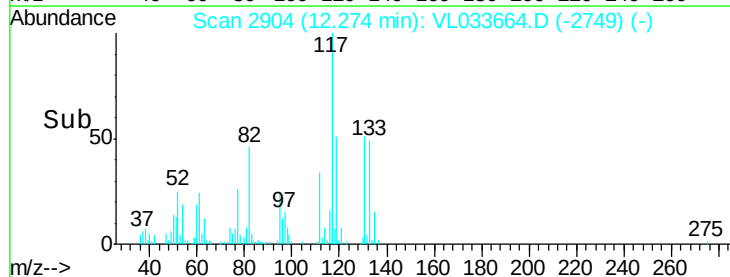
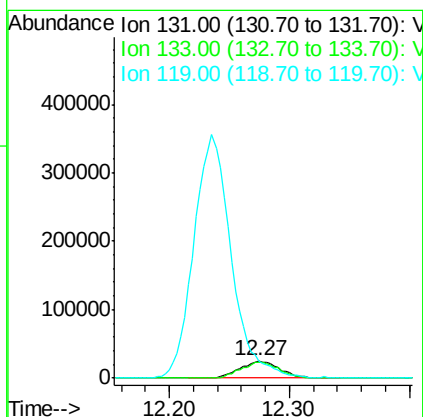
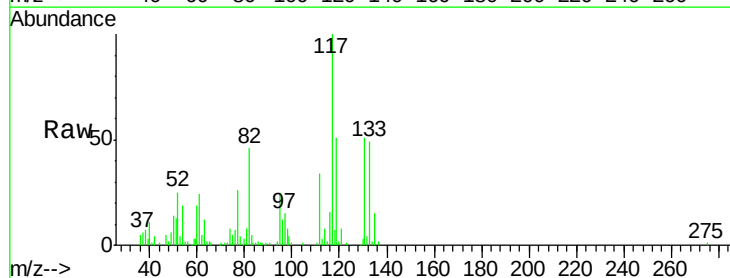
Manual Integrations
APPROVED

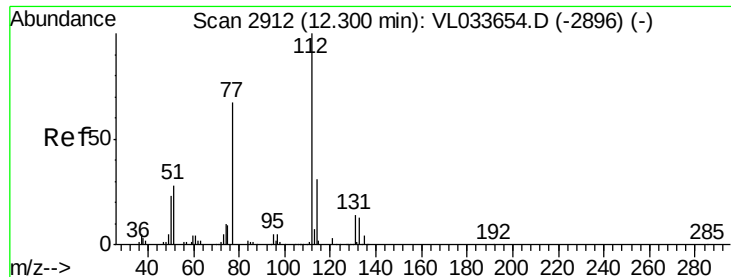
MMDadoda
5/8/2019 12:06:46 PM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.535 ppbv m
RT: 12.27 min Scan# 2904
Delta R.T. -0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion:131 Resp: 56022
Ion Ratio Lower Upper
131 100
133 94.3 76.0 114.0
119 1355.5 45.4 68.2#





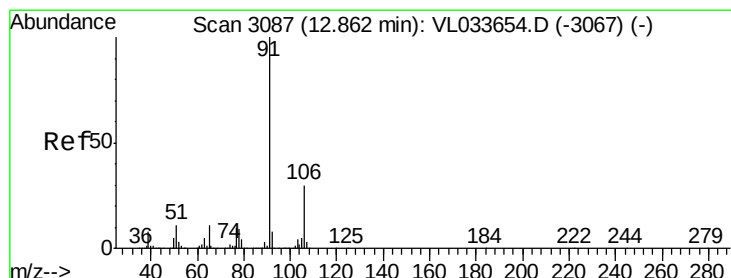
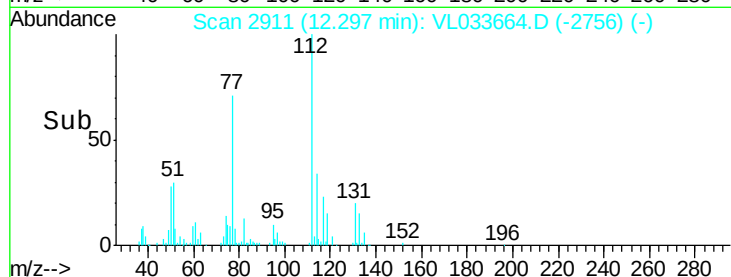
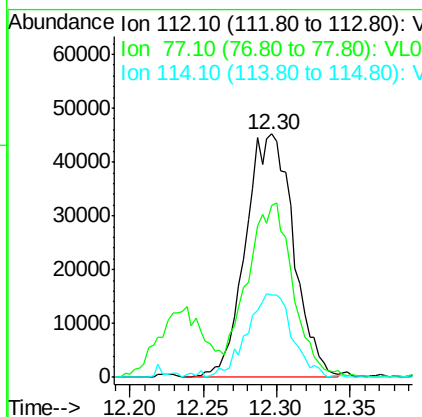
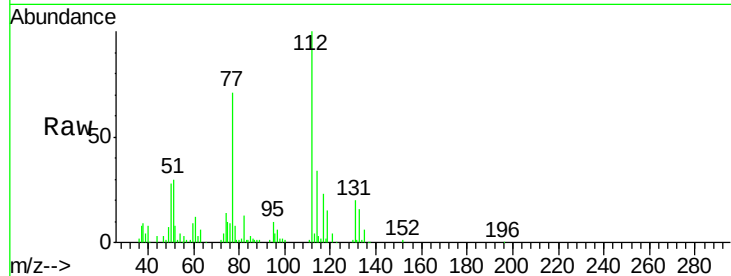
#57
Chlorobenzene
Concen: 0.549 ppbv m
RT: 12.30 min Scan# 2911
Delta R.T. -0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
112	100		
77	70.7	54.4	81.6
114	33.8	28.2	34.4

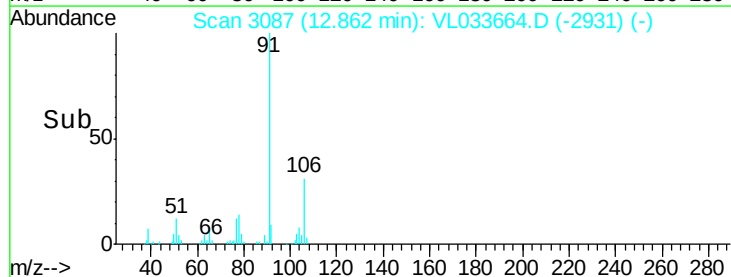
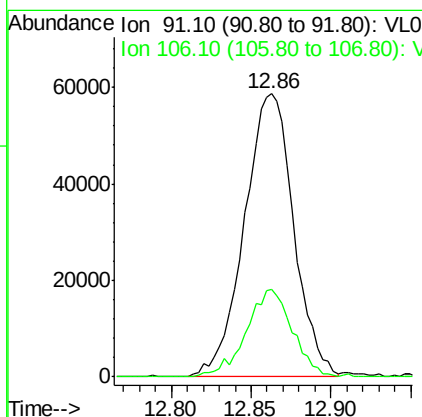
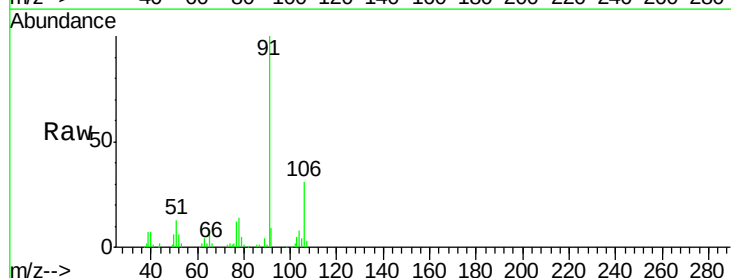
Manual Integrations
APPROVED

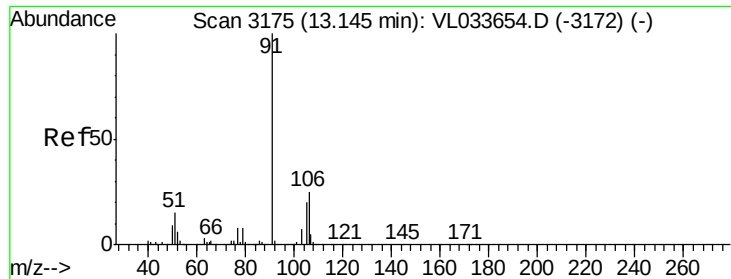
MMDadoda
5/8/2019 12:06:46 PM



#58
Ethyl Benzene
Concen: 0.419 ppbv
RT: 12.86 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.7	23.7	35.5





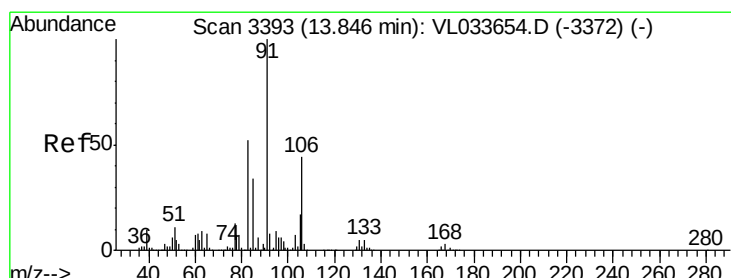
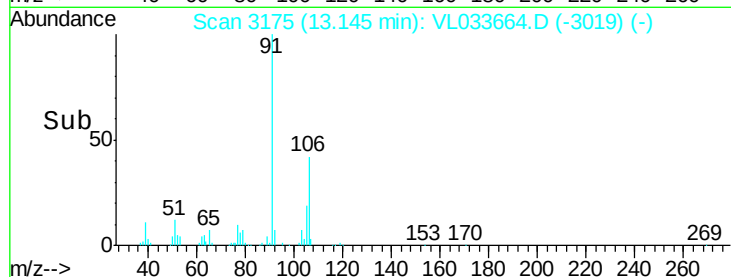
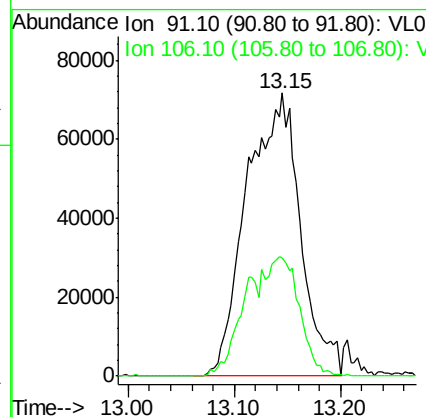
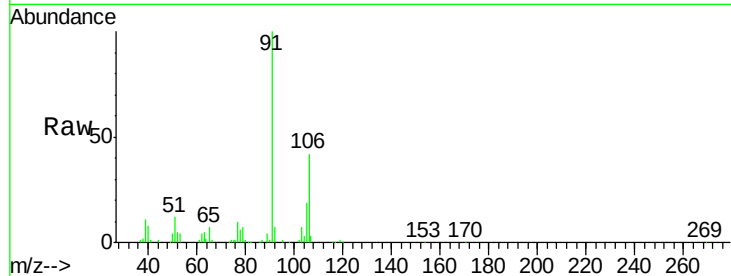
#59
m/p-Xylene
Concen: 0.960 ppbv m
RT: 13.15 min Scan# 3175
Delta R.T. 0.00 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT2-2019

Tot Ion: 91 Resp: 250583
Ion Ratio Lower Upper
91 100
106 41.9 36.2 54.2

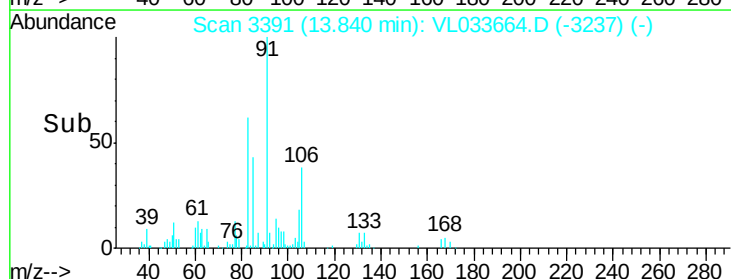
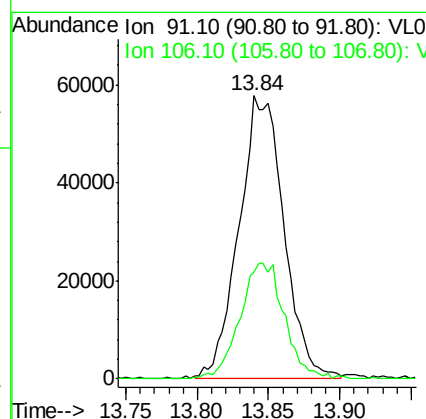
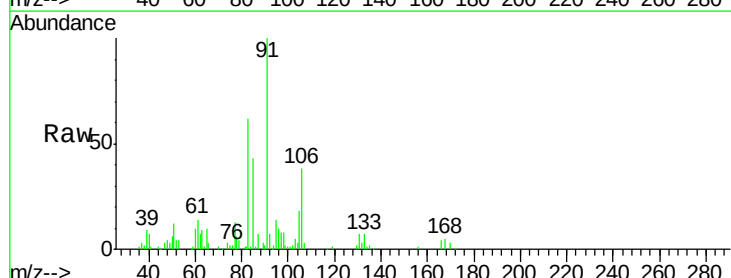
Manual Integrations
APPROVED

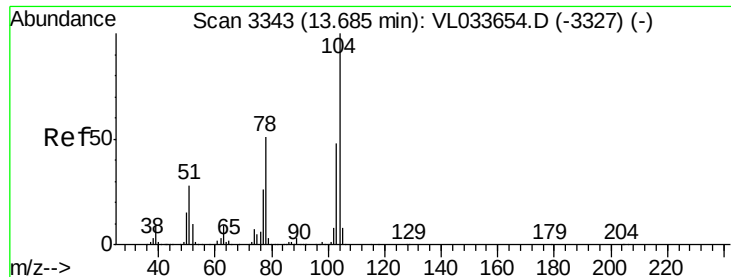
MMDadoda
5/8/2019 12:06:46 PM



#60
o-Xylene
Concen: 0.480 ppbv m
RT: 13.84 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL033664.D
Acq: 6 May 2019 18:30

Tgt Ion: 91 Resp: 126744
Ion Ratio Lower Upper
91 100
106 0.0 21.7 65.1#





#61

Stvrene

Concen: 0.383 ppbv

RT: 13.69 min Scan# 3343

Delta R.T. 0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

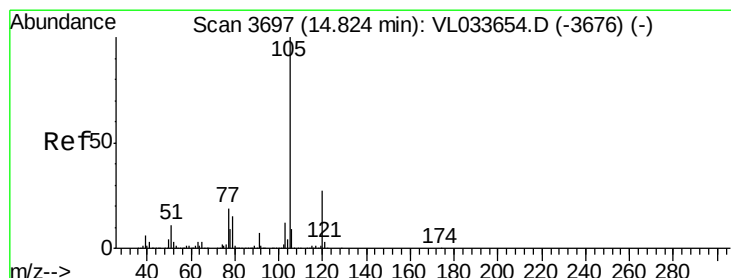
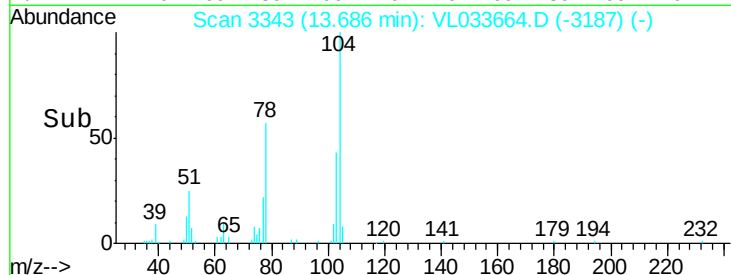
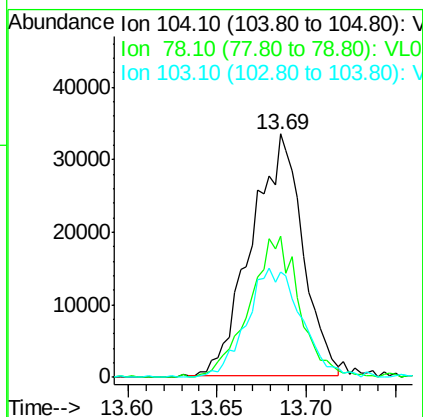
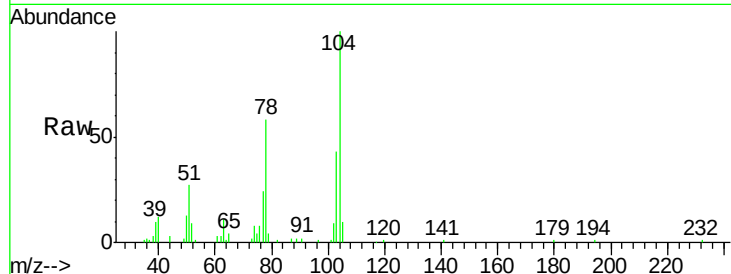
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	104	Resp:	67283
Ion	Ratio	Lower	Upper
104	100		
78	56.5	43.0	64.6
103	47.8	38.1	57.1

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#62

Isopropylbenzene

Concen: 0.462 ppbv

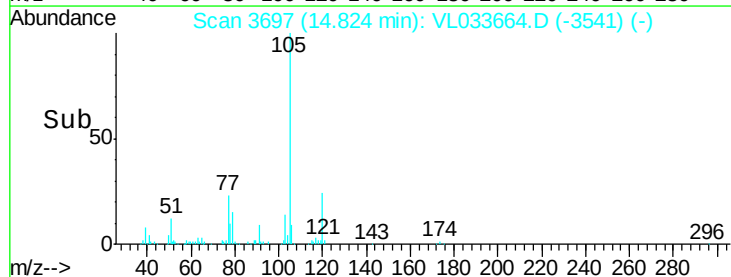
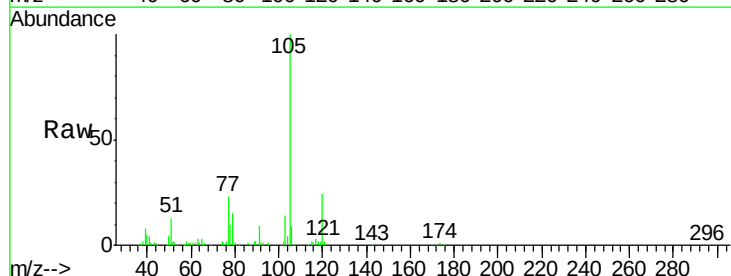
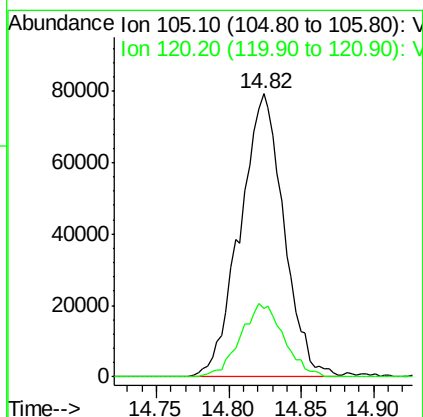
RT: 14.82 min Scan# 3697

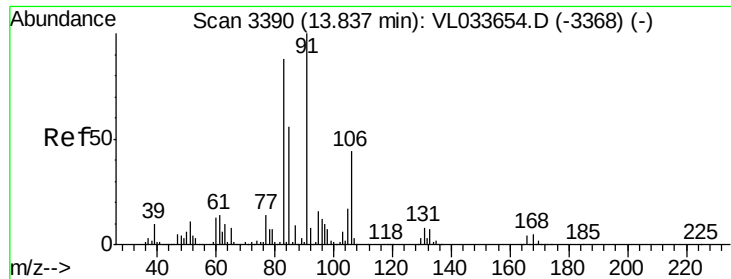
Delta R.T. 0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:	105	Resp:	166546
Ion	Ratio	Lower	Upper
105	100		
120	25.6	20.5	30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.544 ppbv

RT: 13.83 min Scan# 3388

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

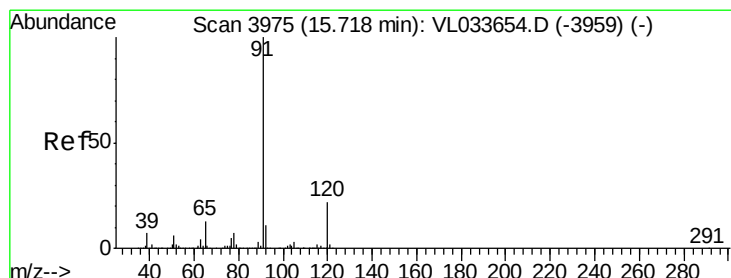
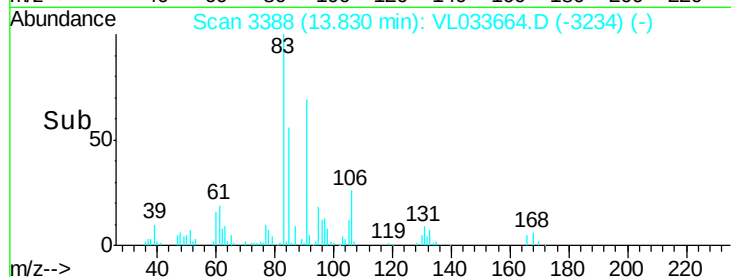
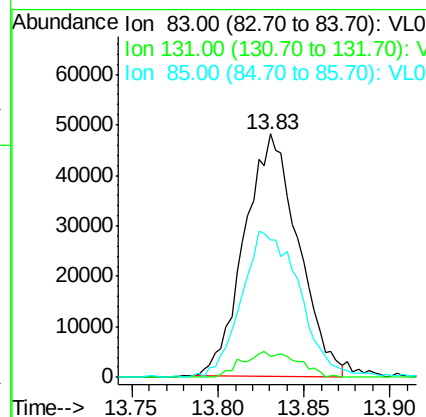
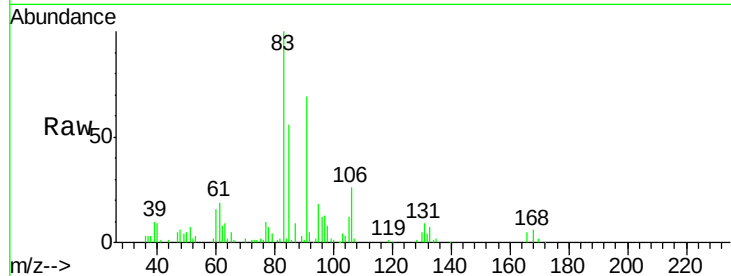
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	83	Resp:	104558
Ion	Ratio	Lower	Upper
83	100		
131	11.0	4.8	14.3
85	66.0	32.5	97.4

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#64

n-propylbenzene

Concen: 0.448 ppbv m

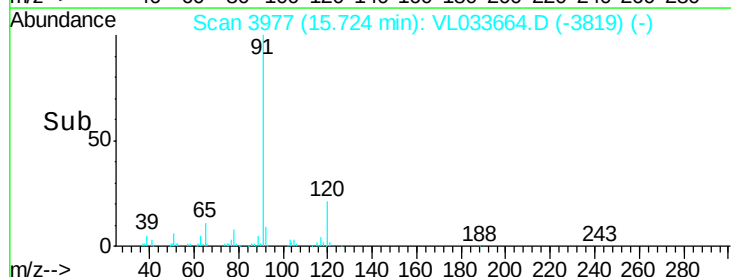
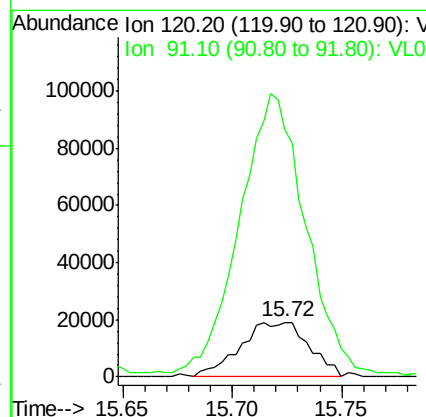
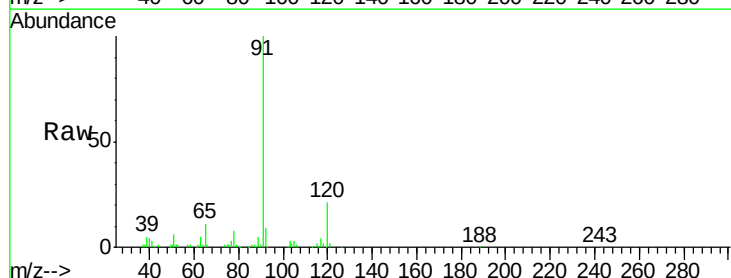
RT: 15.72 min Scan# 3977

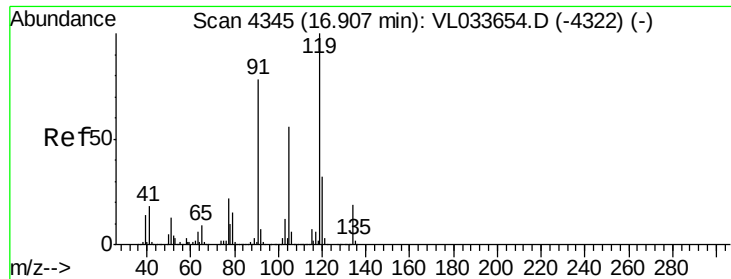
Delta R.T. 0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:	120	Resp:	41754
Ion	Ratio	Lower	Upper
120	100		
91	509.8	379.0	568.6





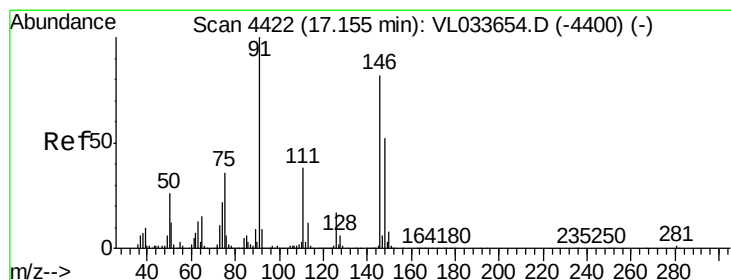
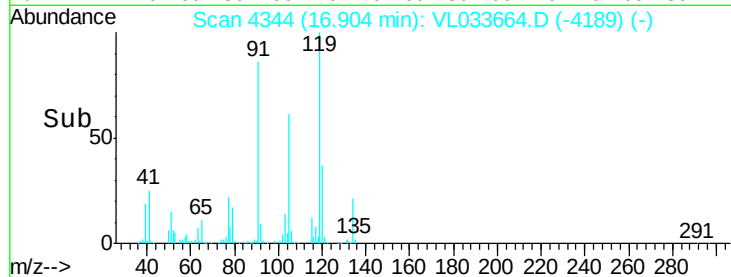
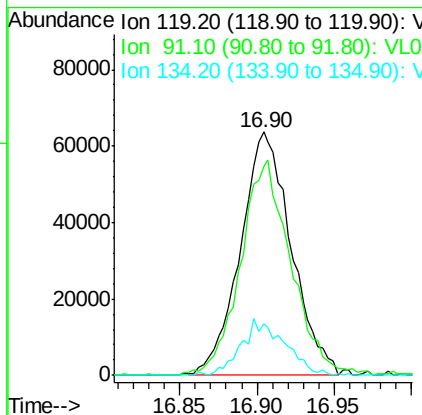
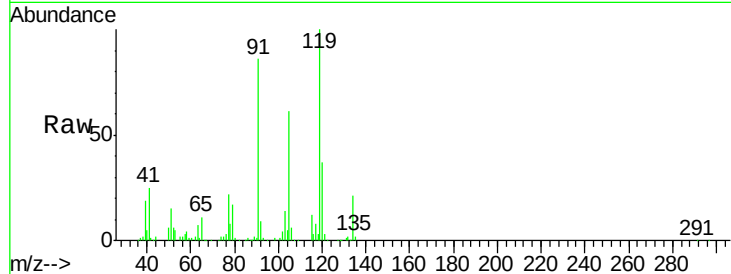
#65
 tert-Butylbenzene
 Concen: 0.439 ppbv
 RT: 16.90 min Scan# 4344
 Delta R.T. -0.00 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	145301		
91	89.1	65.9	98.9	
134	19.9	15.5	23.3	

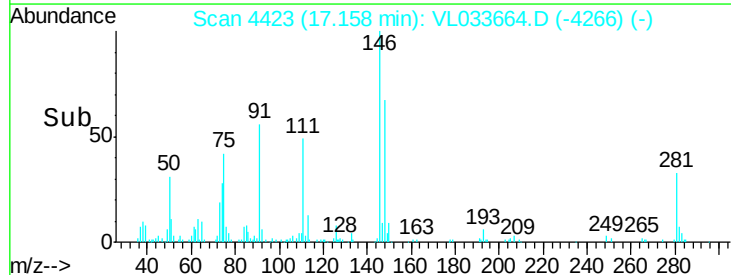
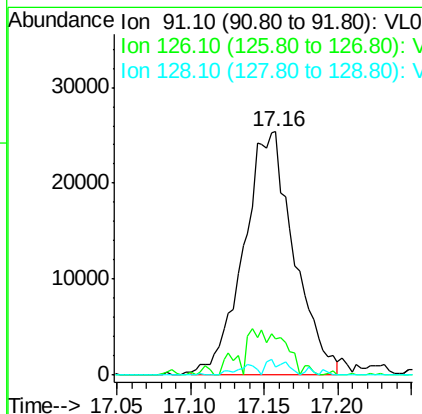
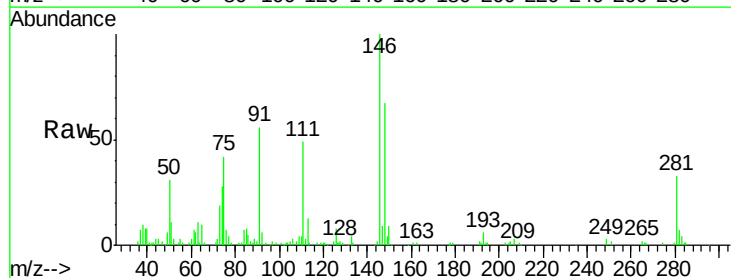
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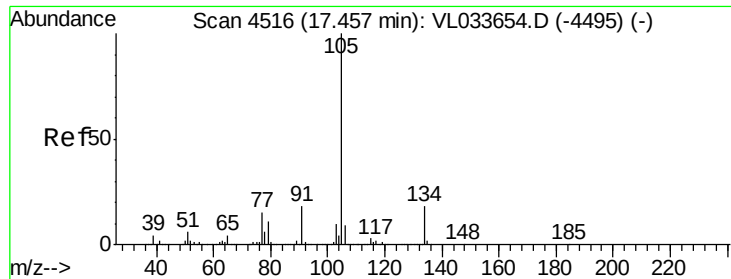
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#66
 Benzyl Chloride
 Concen: 0.402 ppbv m
 RT: 17.16 min Scan# 4423
 Delta R.T. 0.00 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	60518		
126	0.0	13.4	20.2	#
128	4.9	4.4	6.6	





#67

sec-Butylbenzene

Concen: 0.459 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion: 105 Resp: 211789

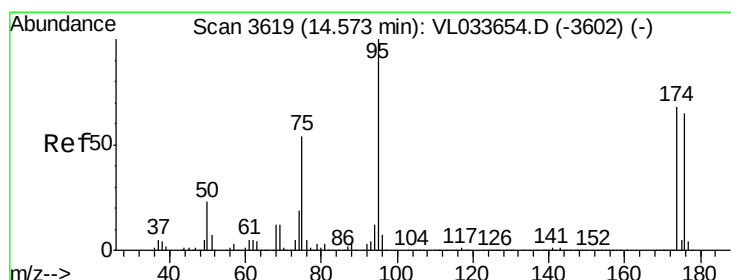
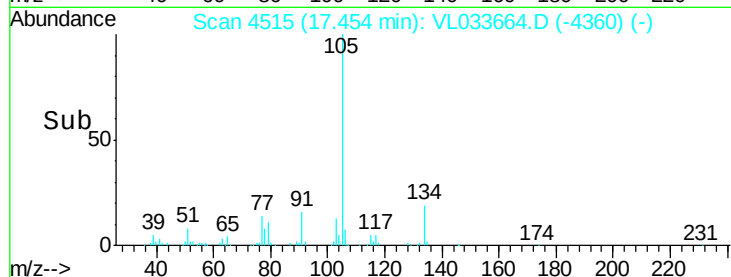
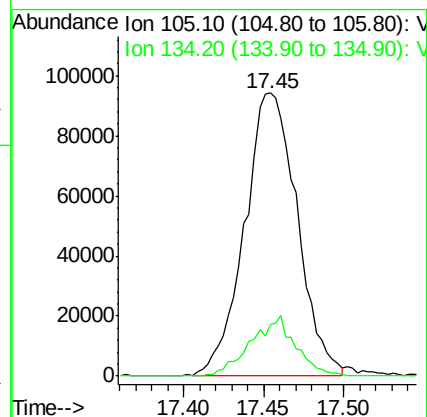
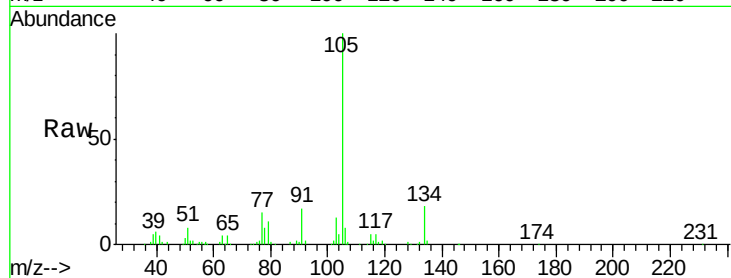
Ion Ratio Lower Upper

105 100

134 18.3 14.6 22.0

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5/8/2019 12:06:46 PM



#68

1-Bromo-4-Fluorobenzene

Concen: 10.298 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. 0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

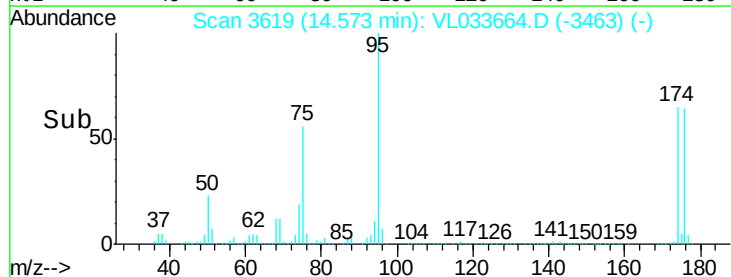
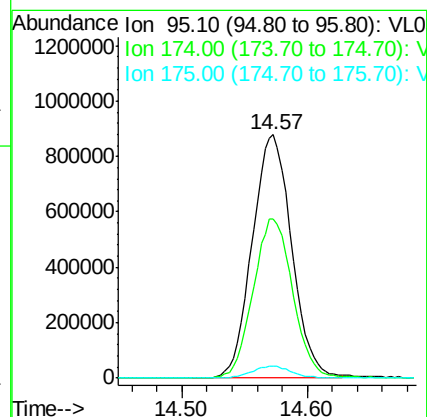
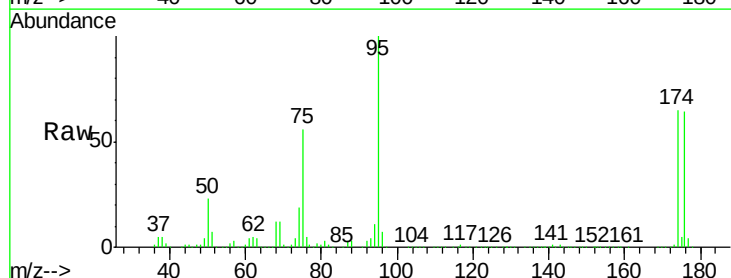
Tgt Ion: 95 Resp: 1917474

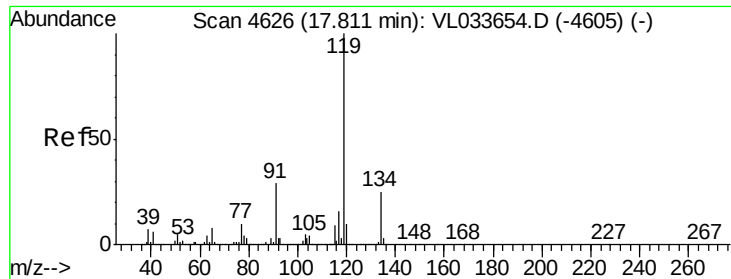
Ion Ratio Lower Upper

95 100

174 66.3 54.0 81.0

175 4.9 3.8 5.8





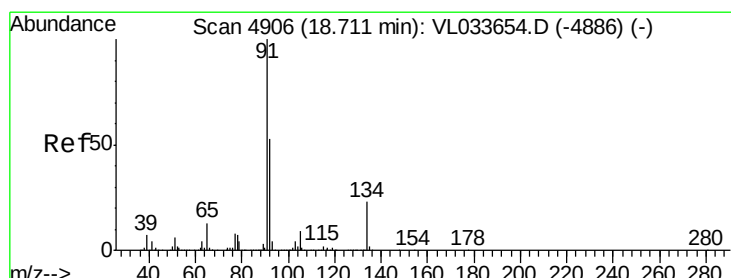
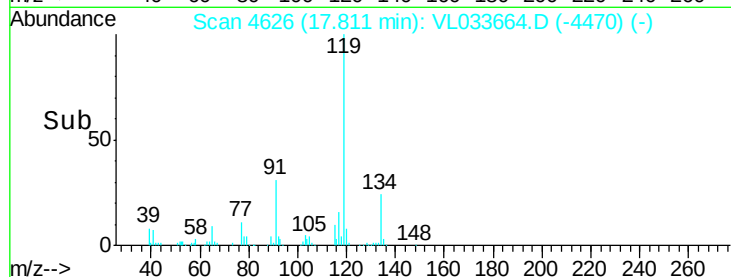
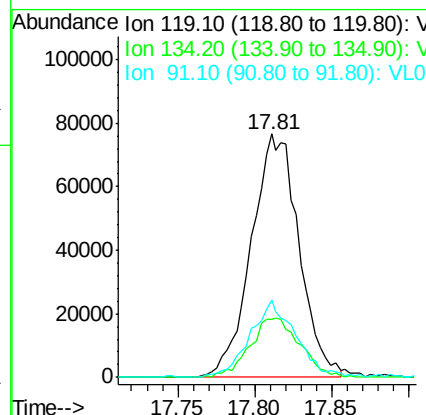
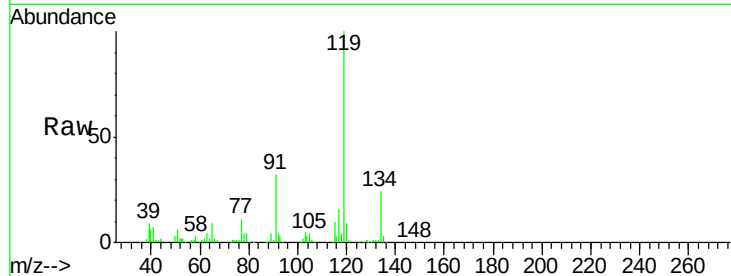
#69
 p-Isopropyltoluene
 Concen: 0.432 ppbv m
 RT: 17.81 min Scan# 4626
 Delta R.T. 0.00 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
119	100		
134	0.0	20.2	30.2#
91	31.5	23.4	35.2

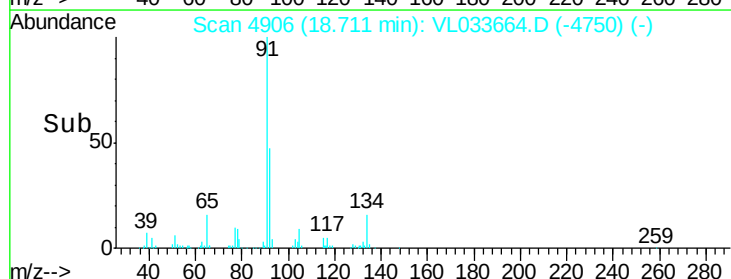
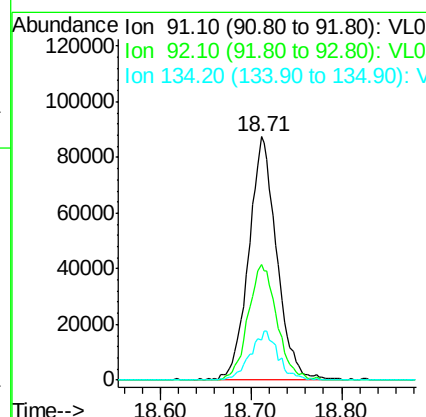
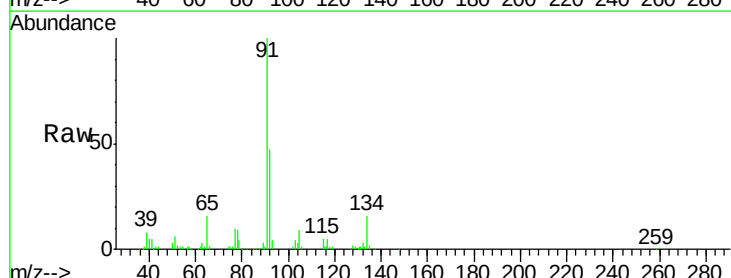
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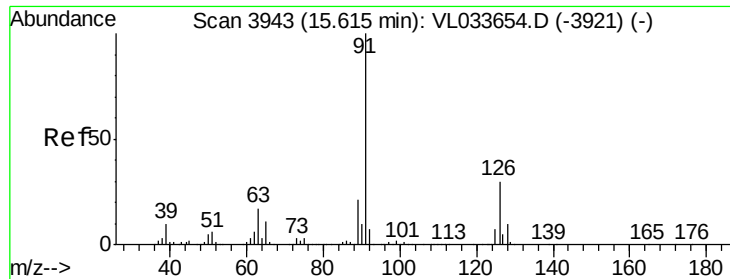
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#70
 n-Butylbenzene
 Concen: 0.466 ppbv m
 RT: 18.71 min Scan# 4906
 Delta R.T. 0.00 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Tgt Ion	Ratio	Lower	Upper
91	100		
92	48.8	42.5	63.7
134	20.0	18.0	27.0





#71

2-Chlorotoluene

Concen: 0.438 ppbv m

RT: 15.61 min Scan# 3941

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion: 91 Resp: 116596

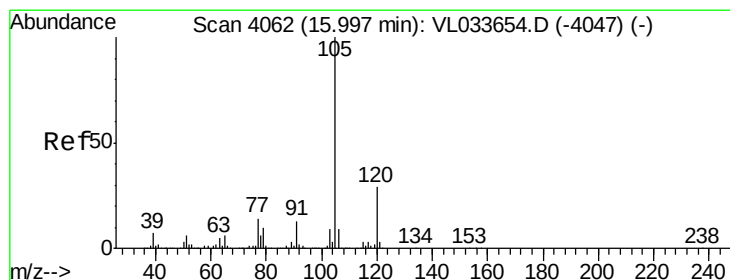
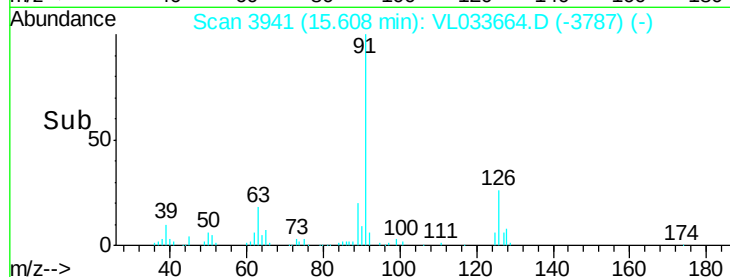
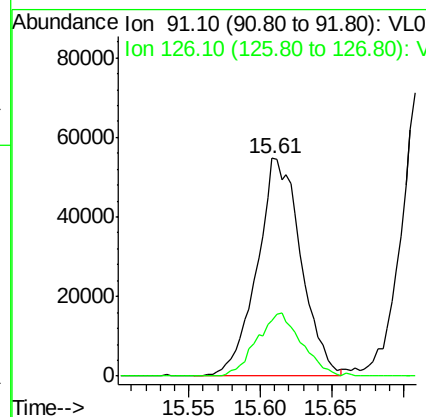
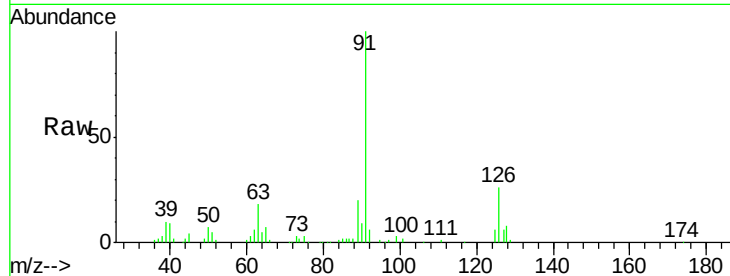
Ion Ratio Lower Upper

91 100

126 0.0 12.0 47.8#

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#72

4-Ethyltoluene

Concen: 0.405 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. 0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:105 Resp: 125694

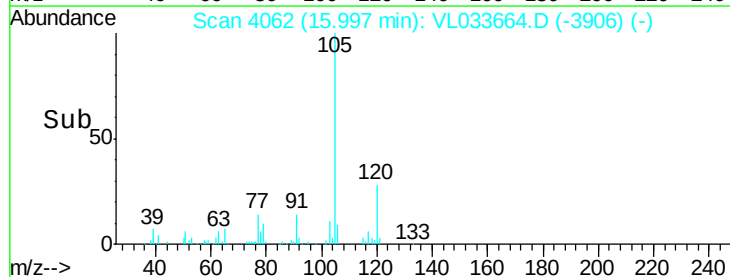
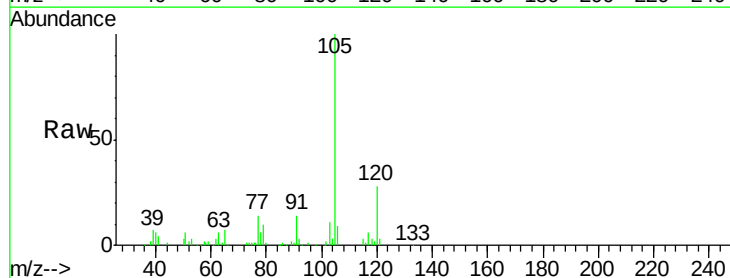
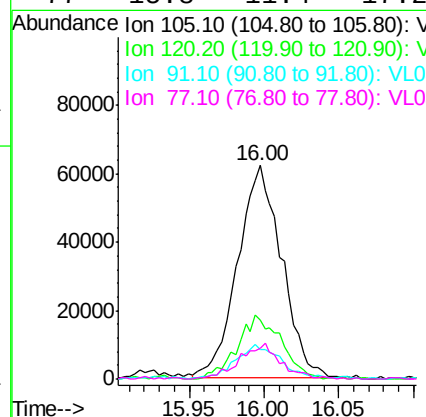
Ion Ratio Lower Upper

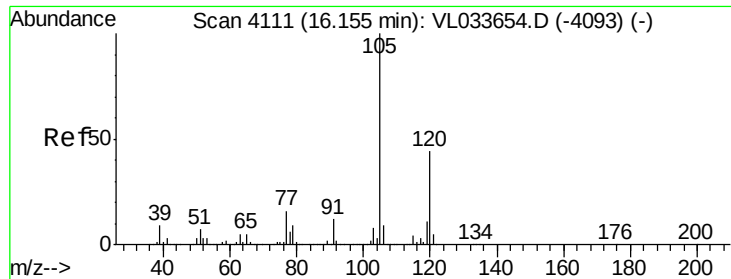
105 100

120 30.7 23.0 34.6

91 17.5 10.5 15.7#

77 15.8 11.4 17.2





#73

1,3,5-Trimethylbenzene

Concen: 0.448 ppbv m

RT: 16.15 min Scan# 4110

Delta R.T. -0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:105 Resp: 134530

Ion Ratio Lower Upper

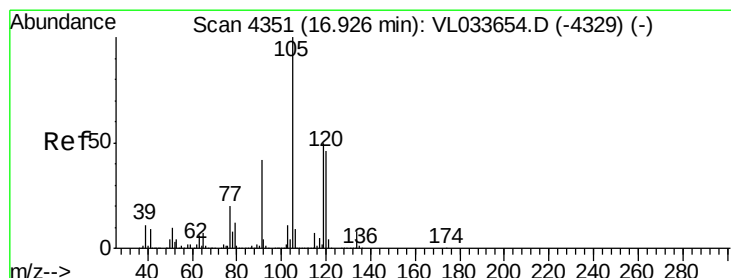
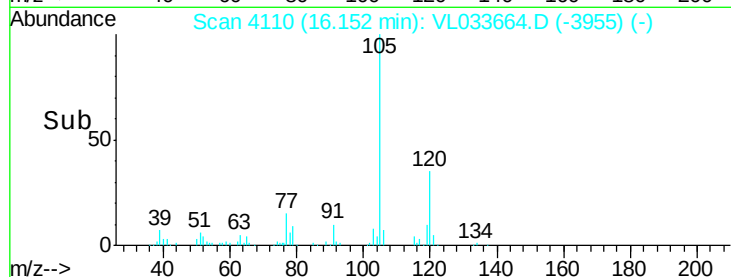
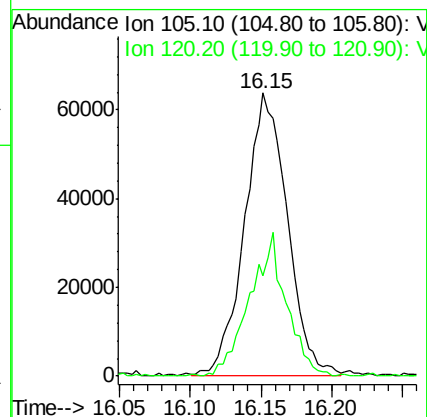
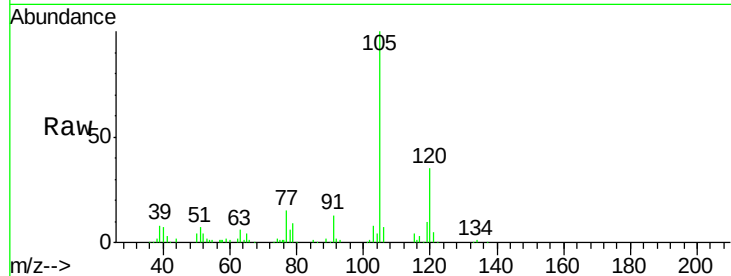
105 100

120 35.4 35.5 53.3#

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5/8/2019 12:06:46 PM



#74

1,2,4-Trimethylbenzene

Concen: 0.468 ppbv

RT: 16.92 min Scan# 4349

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:105 Resp: 155966

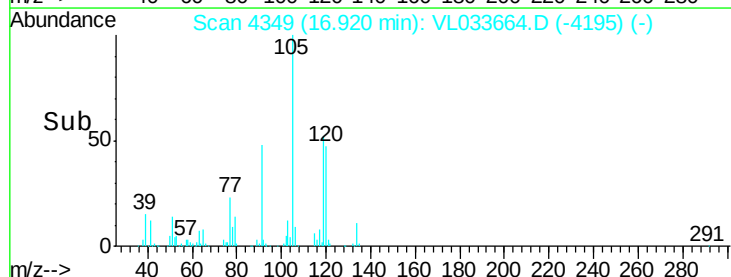
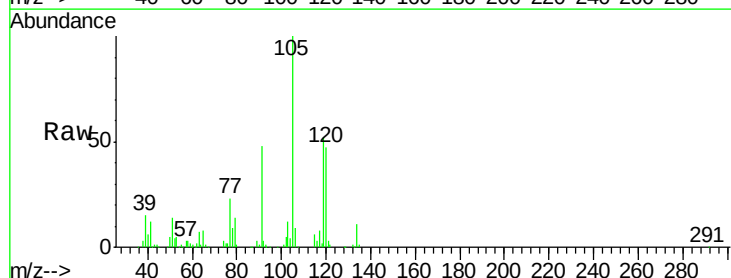
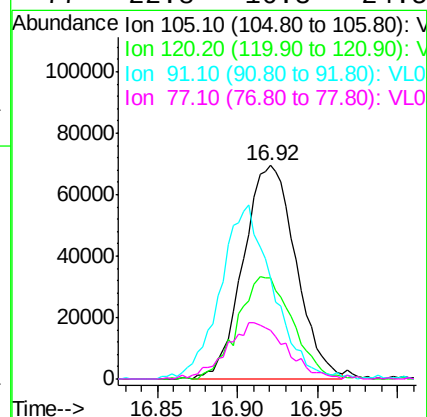
Ion Ratio Lower Upper

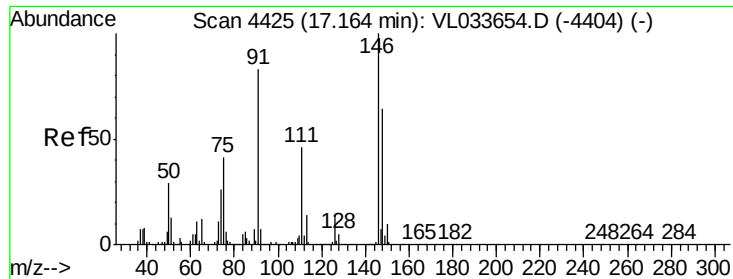
105 100

120 50.4 36.5 54.7

91 49.8 33.7 50.5

77 22.8 16.3 24.5





#75

1,3-Dichlorobenzene

Concen: 0.550 ppbv m

RT: 17.15 min Scan# 4422

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

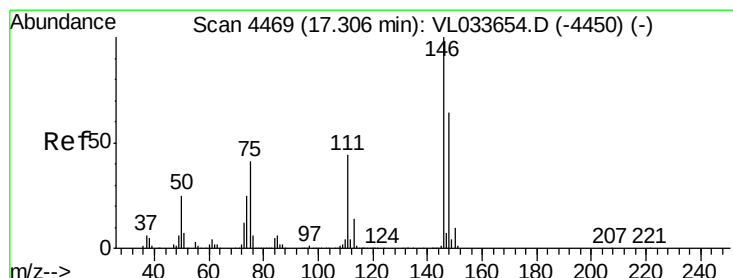
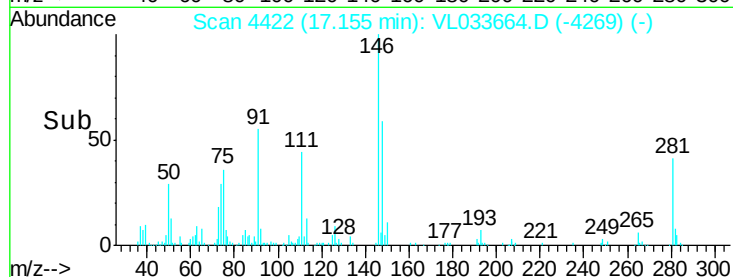
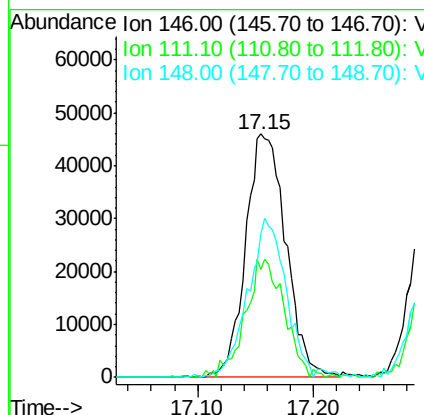
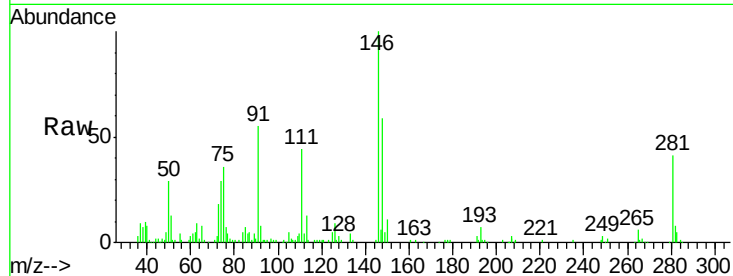
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	146	Resp:	110866
Ion Ratio	Lower	Upper	
146	100		
111	47.8	22.6	67.7
148	62.9	31.8	95.4

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#76

1,4-Dichlorobenzene

Concen: 0.486 ppbv m

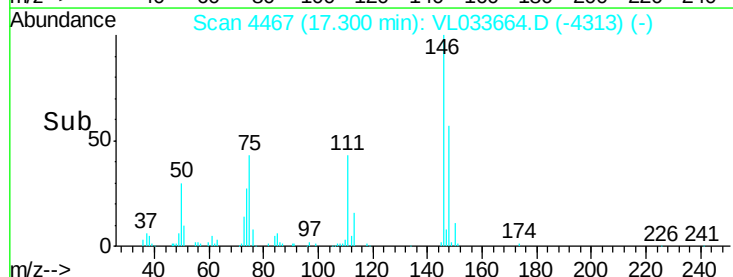
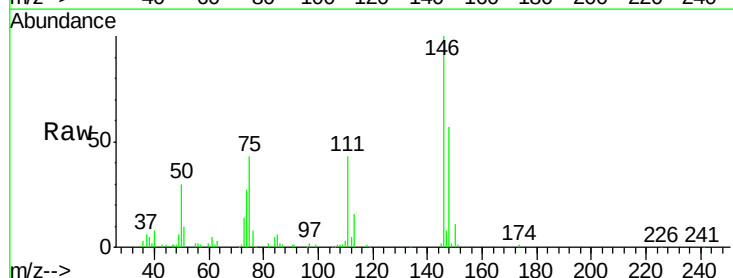
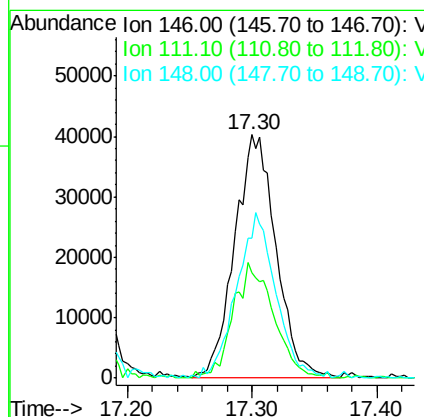
RT: 17.30 min Scan# 4467

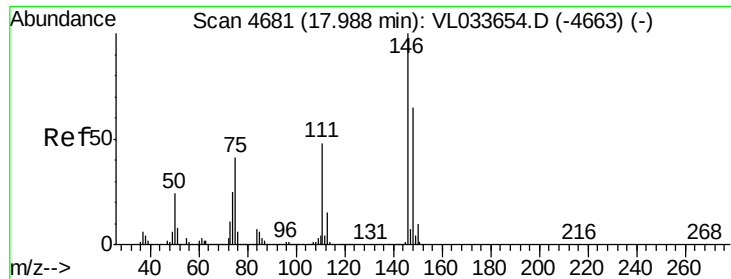
Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:	146	Resp:	92968
Ion Ratio	Lower	Upper	
146	100		
111	46.5	22.0	66.0
148	64.8	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 0.493 ppbv m

RT: 17.98 min Scan# 4678

Delta R.T. -0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

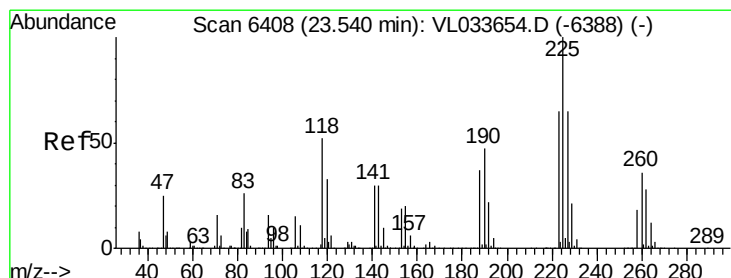
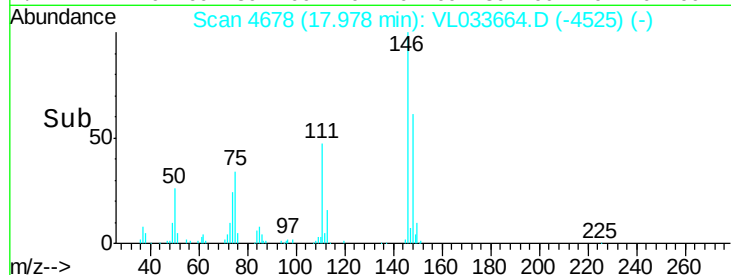
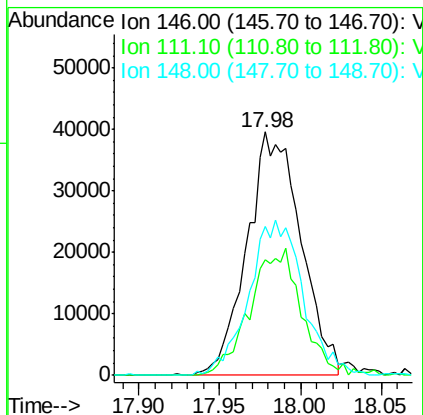
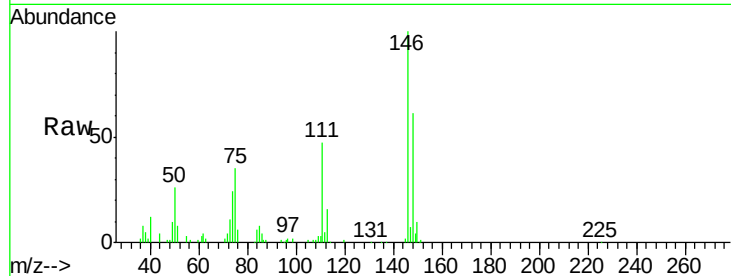
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	146	Resp:	91945
Ion Ratio	Lower	Upper	
146	100		
111	50.6	23.4	70.0
148	64.8	31.9	95.9

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 0.564 ppbv m

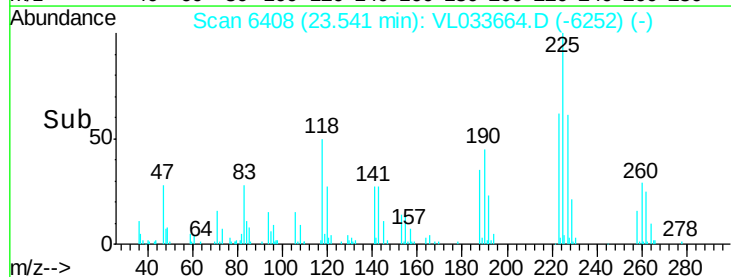
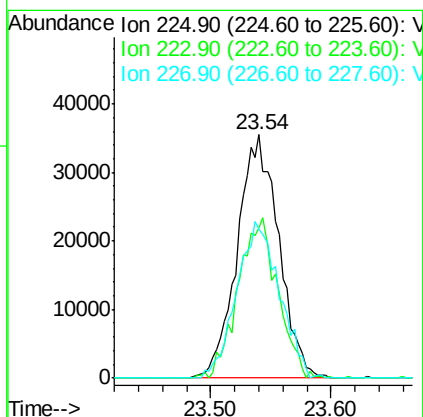
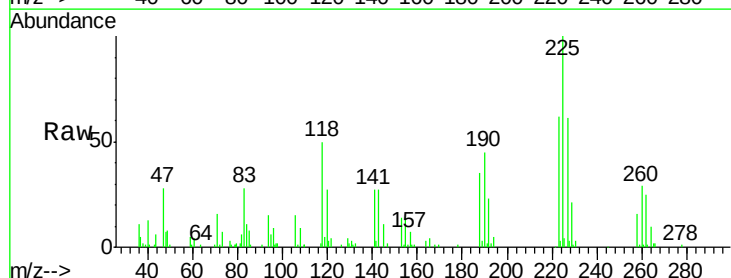
RT: 23.54 min Scan# 6408

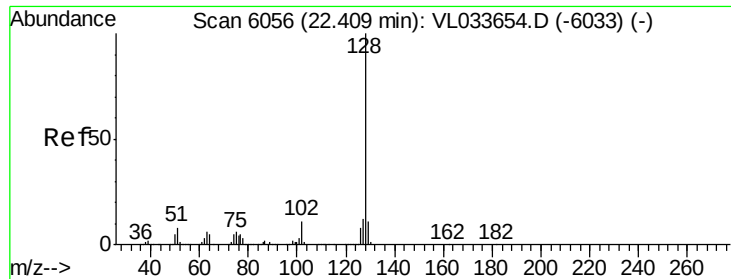
Delta R.T. 0.00 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:	225	Resp:	83406
Ion Ratio	Lower	Upper	
225	100		
223	63.2	50.7	76.1
227	66.6	51.4	77.2





#79

Naphthalene

Concen: 0.443 ppbv

RT: 22.42 min Scan# 6058

Delta R.T. 0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Instrument :

MSVOA_L

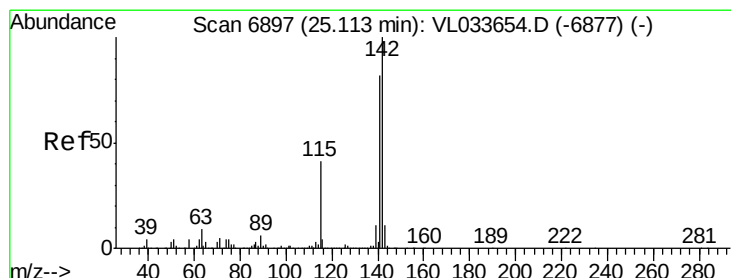
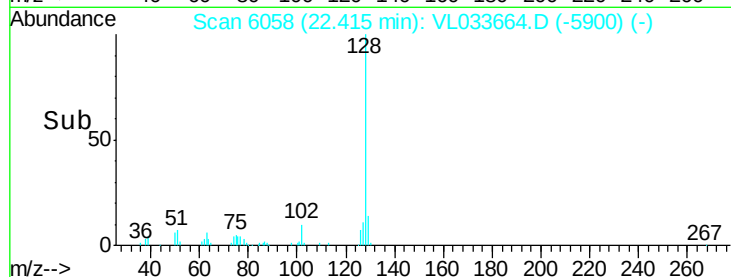
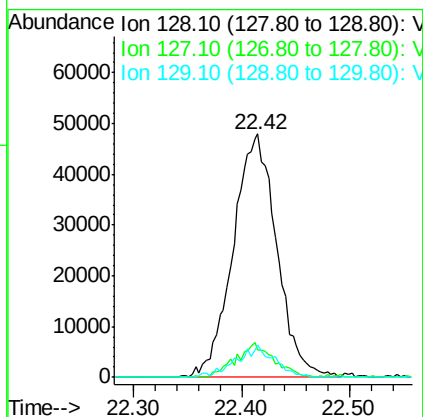
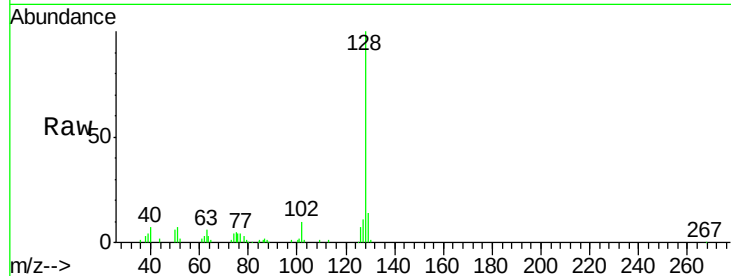
ClientSampleId :

LOQ-AIR-02-QT2-2019

Tot Ion:	128	Resp:	134808
Ion Ratio		Lower	Upper
128	100		
127	11.0	9.8	14.8
129	13.5	8.8	13.2#

Manual Integrations
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5/8/2019 12:06:46 PM



#80

Naphthalene, 2-methyl-

Concen: 0.436 ppbv

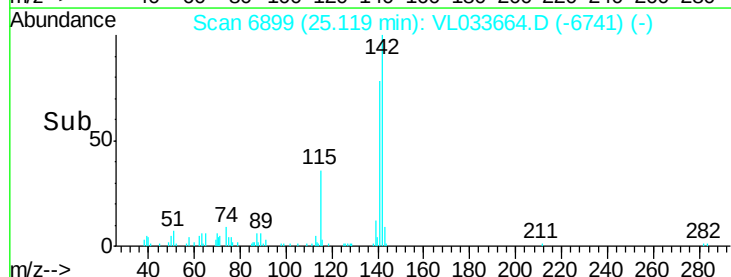
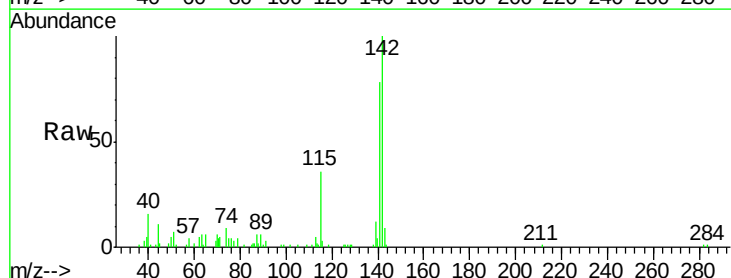
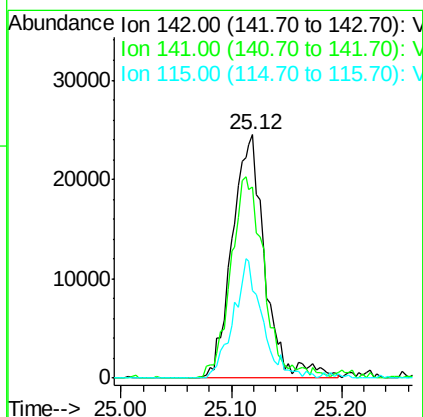
RT: 25.12 min Scan# 6899

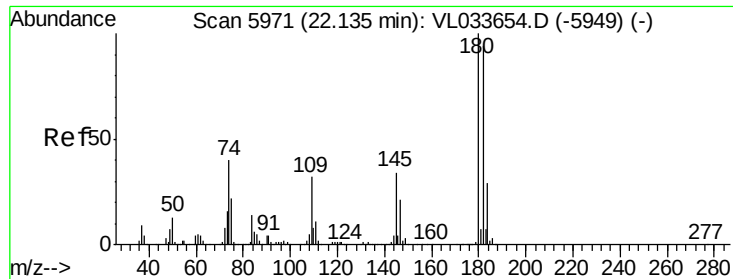
Delta R.T. 0.01 min

Lab File: VL033664.D

Acq: 6 May 2019 18:30

Tgt Ion:	142	Resp:	50181
Ion Ratio		Lower	Upper
142	100		
141	84.5	67.9	101.9
115	43.9	34.2	51.4





#81
 1,2,4-Trichlorobenzene
 Concen: 0.483 ppbv m
 RT: 22.14 min Scan# 5972
 Delta R.T. 0.00 min
 Lab File: VL033664.D
 Acq: 6 May 2019 18:30

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT2-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.4	116.0#
184	0.0	24.6	36.8#

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:46 PM

