

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101619\
 Data File : VL034309.D
 Acq On : 16 Oct 2019 22:44
 Operator : SY/AP
 Sample : K5111-14 0.5 PPB LOQ
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 3:04:43 PM

Quant Time: Oct 17 14:40:03 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 14:40:03 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	5.71	49	1076399	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.23	114	2073910	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.17	117	2065576	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1808208	10.34	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.04	85	120706	0.650 ppbv	97
3) Chlorodifluoromethane	2.98	51	67422	0.534 ppbv	99
4) Chloromethane	3.14	50	40071m	0.537 ppbv	
5) Vinyl Chloride	3.25	62	34900	0.490 ppbv	92
6) Bromomethane	3.47	94	18772	0.539 ppbv	91
7) Chloroethane	3.56	64	13578m	0.542 ppbv	
8) Dichlorotetrafluoroethane	3.18	85	90731	0.564 ppbv	97
9) Propene	3.00	41	27459m	0.491 ppbv	
10) Heptane	8.18	43	62402	0.435 ppbv	97
11) Trichlorofluoromethane	3.96	101	100376	0.570 ppbv #	83
12) 1,1,2-Trichlorotrifluoroet	4.50	101	64144	0.556 ppbv	95
13) Ethanol	3.61	45	7619m	0.608 ppbv	
14) Bromoethene	3.75	108	23111	0.509 ppbv #	89
15) Acetone	3.87	43	99154	0.644 ppbv	100
16) 1,3-Butadiene	3.32	39	29652	0.474 ppbv	94
17) tert-Butyl alcohol	4.32	59	60029m	0.611 ppbv	
18) 1,1-Dichloroethene	4.30	96	24222	0.479 ppbv	93
19) Isopropyl Alcohol	3.99	45	50430	0.587 ppbv #	91
20) Methylene Chloride	4.36	84	35528	0.638 ppbv #	93
21) Allyl Chloride	4.43	41	44368	0.521 ppbv	98
22) trans-1,2-Dichloroethene	4.91	96	27132m	0.538 ppbv	
23) Vinyl Acetate	5.10	43	82466	0.429 ppbv #	95
24) 1,1-Dichloroethane	5.04	63	73671	0.516 ppbv #	92
25) Ethyl Acetate	5.72	43	131456	0.506 ppbv	98
26) Hexane	5.72	57	55122	0.498 ppbv	94
27) Carbon Disulfide	4.57	76	52226	0.454 ppbv #	83
28) Methyl tert-Butyl Ether	5.07	73	77077	0.460 ppbv	95
29) Chloroform	5.79	83	91922	0.525 ppbv	99
30) Cyclohexane	7.19	84	37366m	0.459 ppbv	
31) cis-1,2-Dichloroethene	5.59	61	48595	0.432 ppbv #	87
32) 1,1,1-Trichloroethane	6.56	97	83368	0.489 ppbv	98
34) 2-Butanone	5.29	43	76060	0.449 ppbv	95
35) Carbon Tetrachloride	7.07	117	89281m	0.494 ppbv	
36) Benzene	6.94	78	92226	0.463 ppbv	96
37) 1,2-Dichloroethane	6.35	62	78596	0.530 ppbv	99
38) Trichloroethene	7.90	130	35658	0.447 ppbv	99
39) 1,2-Dichloropropane	7.67	63	42746m	0.499 ppbv	
40) 1,4-Dioxane	7.92	88	16654m	0.553 ppbv	
41) Tetrahydrofuran	6.11	42	39730	0.422 ppbv	98
42) Bromodichloromethane	7.85	83	87812	0.483 ppbv	89
43) Methyl Methacrylate	8.08	69	33002	0.401 ppbv	88

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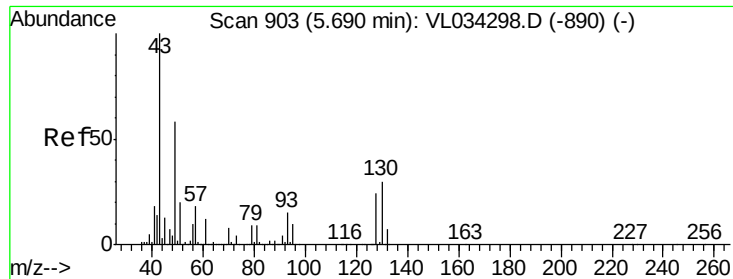
Manual Integrations
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MMDadoda
 10/18/2019 3:04:43 PM

Quant Time: Oct 17 14:40:03 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
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.93	57	183869m	0.499	ppbv	
45) t-1,3-Dichloropropene	9.35	75	33059m	0.330	ppbv	
46) cis-1,3-Dichloropropene	8.78	75	45759	0.397	ppbv #	79
47) 1,1,2-Trichloroethane	9.55	97	43070m	0.496	ppbv	
48) Dibromochloromethane	10.38	129	66324	0.466	ppbv	98
49) Bromoform	13.13	173	52591m	0.417	ppbv	
50) 4-Methyl-2-Pentanone	8.82	43	110530	0.455	ppbv	99
51) 2-Hexanone	10.23	43	75635	0.380	ppbv #	95
52) Tetrachloroethene	11.30	164	36456m	0.467	ppbv	
53) Toluene	9.88	91	89611	0.408	ppbv	99
54) 1,2-Dibromoethane	10.69	107	58604	0.456	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.21	131	52459	0.551	ppbv #	1
57) Chlorobenzene	12.23	112	90821	0.527	ppbv	97
58) Ethyl Benzene	12.80	91	136762	0.474	ppbv	96
59) m/p-Xylene	13.07	91	251021m	1.003	ppbv	
60) o-Xylene	13.78	91	124673m	0.500	ppbv	
61) Styrene	13.62	104	71529m	0.408	ppbv	
62) Isopropylbenzene	14.76	105	165464m	0.503	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	104592m	0.522	ppbv	
64) n-propylbenzene	15.66	120	41646m	0.493	ppbv	
65) tert-Butylbenzene	16.84	119	142065m	0.487	ppbv	
66) Benzyl Chloride	17.09	91	39982m	0.347	ppbv	
67) sec-Butylbenzene	17.39	105	208455	0.508	ppbv	95
69) p-Isopropyltoluene	17.75	119	148554	0.444	ppbv	98
70) n-Butylbenzene	18.65	91	178262	0.490	ppbv	96
71) 2-Chlorotoluene	15.55	91	123836m	0.486	ppbv	
72) 4-Ethyltoluene	15.93	105	130404	0.466	ppbv	97
73) 1,3,5-Trimethylbenzene	16.09	105	133027m	0.479	ppbv	
74) 1,2,4-Trimethylbenzene	16.86	105	142803	0.494	ppbv	94
75) 1,3-Dichlorobenzene	17.09	146	94870m	0.546	ppbv	
76) 1,4-Dichlorobenzene	17.24	146	83643	0.493	ppbv	98
77) 1,2-Dichlorobenzene	17.92	146	85674	0.503	ppbv	97
78) Hexachloro-1,3-Butadiene	23.48	225	68136m	0.484	ppbv	
79) Naphthalene	22.34	128	76685m	0.363	ppbv	
80) Naphthalene, 2-methyl-	25.07	142	13191	0.216	ppbv	93
81) 1,2,4-Trichlorobenzene	22.06	180	59593m	0.432	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 908

Delta R.T. 0.02 min

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Tot Ion: 49 Resp: 1076399

Ion Ratio Lower Upper

49 100

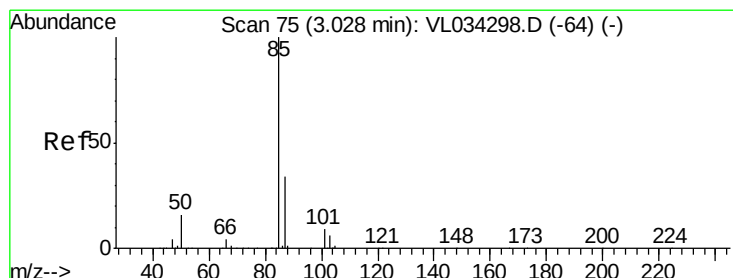
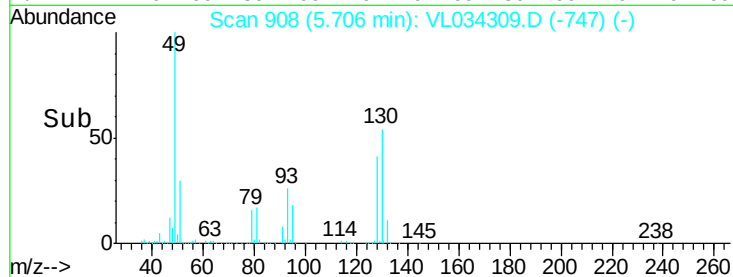
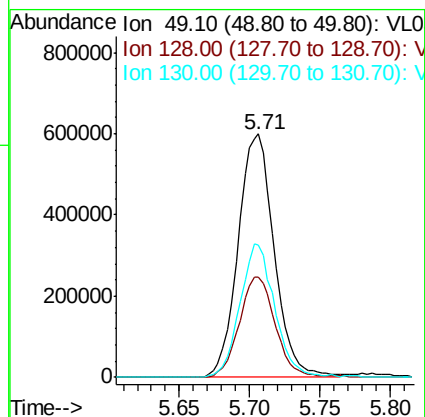
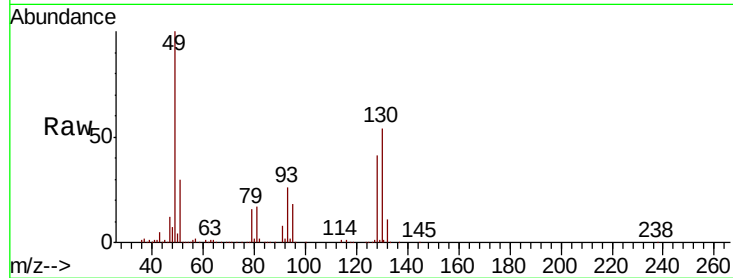
128 41.8 20.6 61.8

130 53.3 26.2 78.5

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#2

Dichlorodifluoromethane

Concen: 0.650 ppbv

RT: 3.04 min Scan# 78

Delta R.T. 0.01 min

Lab File: VL034309.D

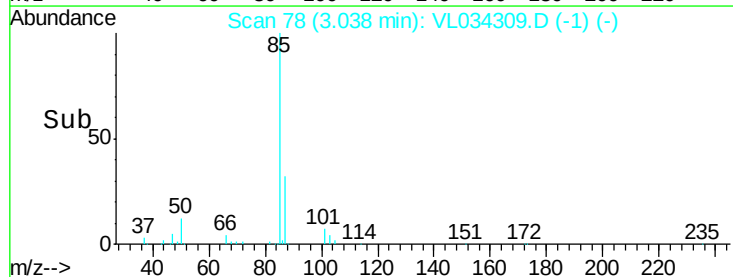
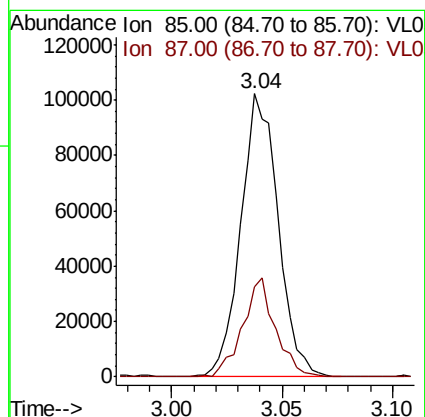
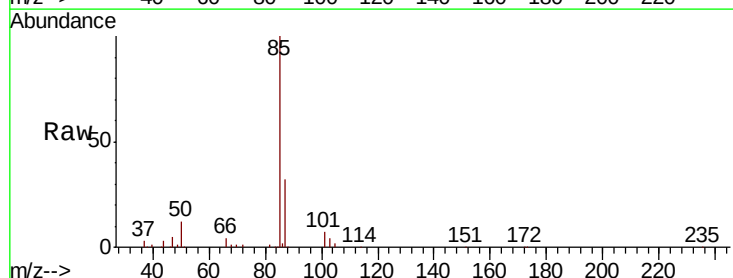
Acq: 16 Oct 2019 22:44

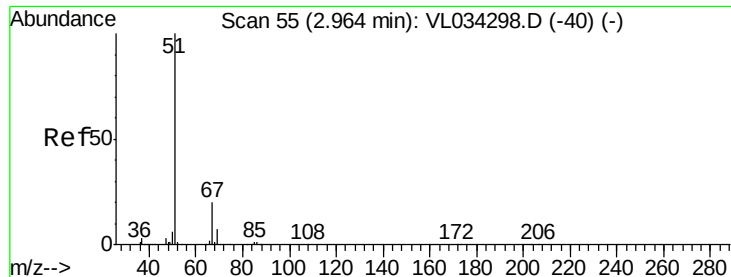
Tgt Ion: 85 Resp: 120706

Ion Ratio Lower Upper

85 100

87 31.9 27.0 40.6





#3

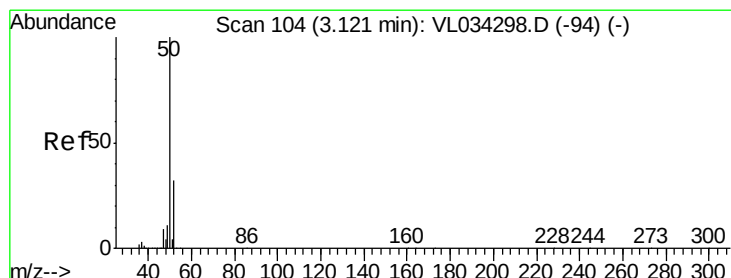
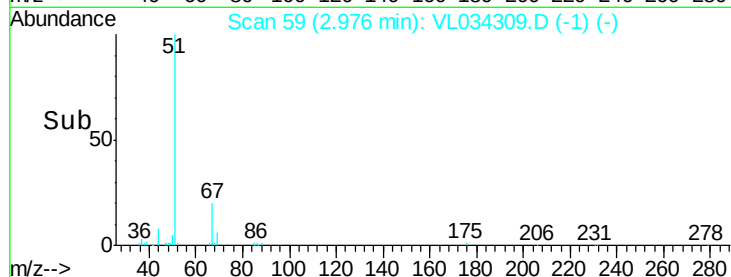
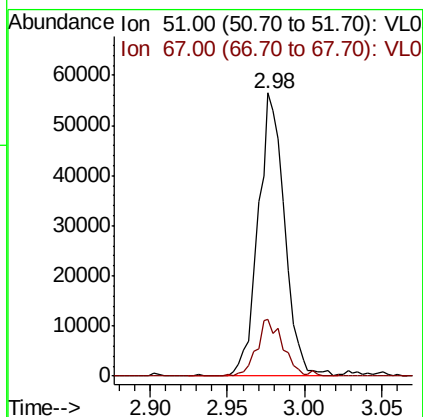
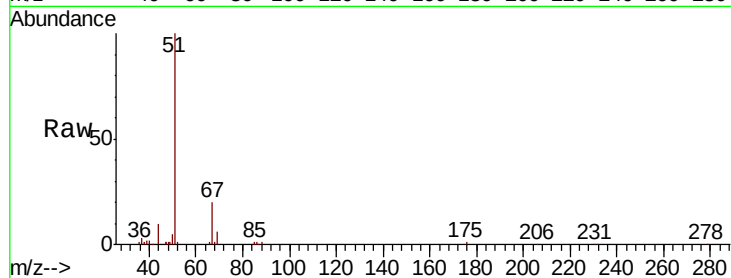
Chlorodifluoromethane
 Concen: 0.534 ppbv
 RT: 2.98 min Scan# 59
 Delta R.T. 0.01 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
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 LOQ-AIR-02-QT4-2019

Tot Ion	51	Resp	67422
Ion Ratio	100	Lower	Upper
51	100		
67	20.4	15.8	23.8

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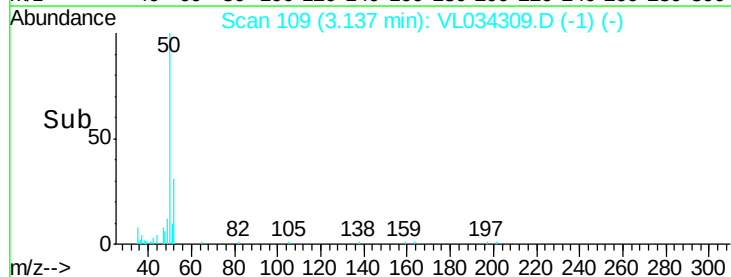
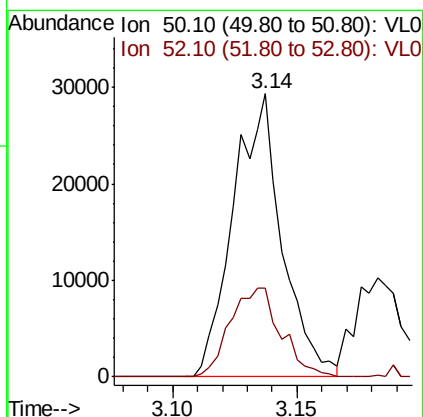
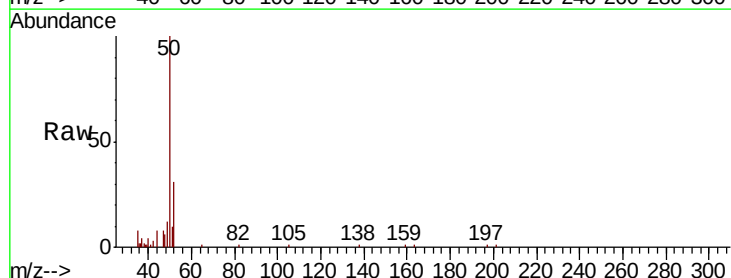
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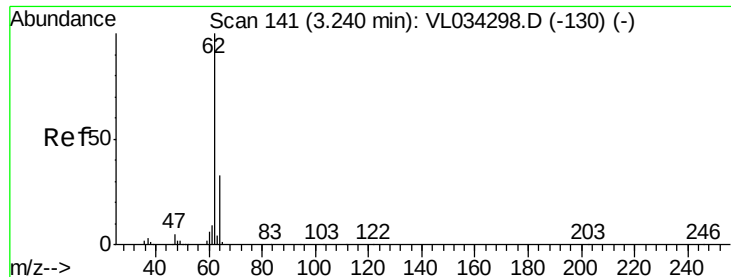


#4

Chloromethane
 Concen: 0.537 ppbv m
 RT: 3.14 min Scan# 109
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Tgt Ion	50	Resp	40071
Ion Ratio	100	Lower	Upper
50	100		
52	31.3	25.4	38.2





#5

Vinyl Chloride

Concen: 0.490 ppbv

RT: 3.25 min Scan# 145

Delta R.T. 0.01 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion: 62 Resp: 34900

Ion Ratio Lower Upper

62 100

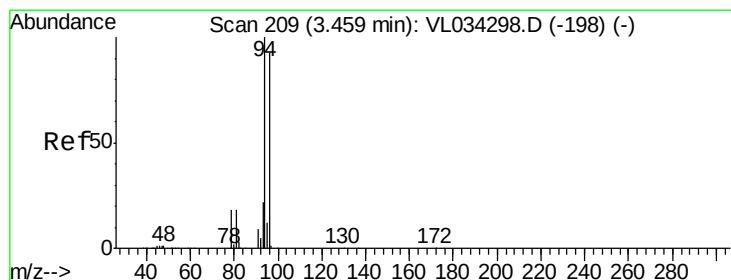
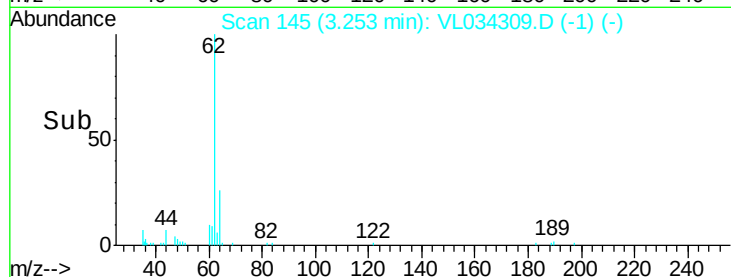
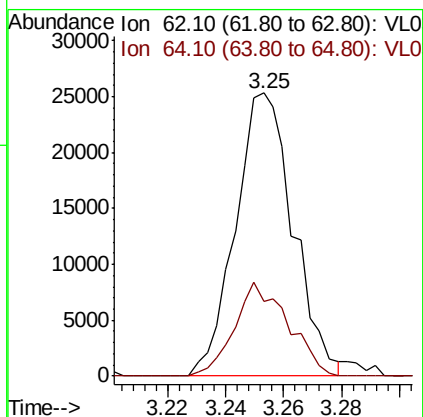
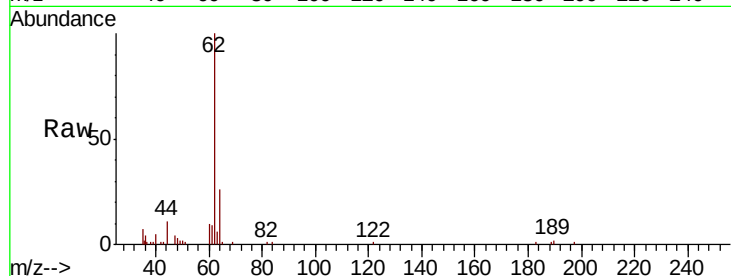
64 27.8 26.0 39.0

Manual Integrations

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#6

Bromomethane

Concen: 0.539 ppbv

RT: 3.47 min Scan# 213

Delta R.T. 0.01 min

Lab File: VL034309.D

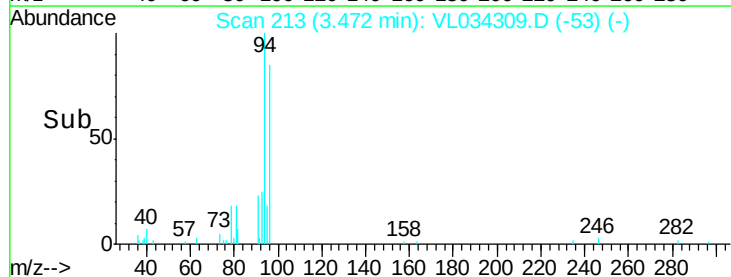
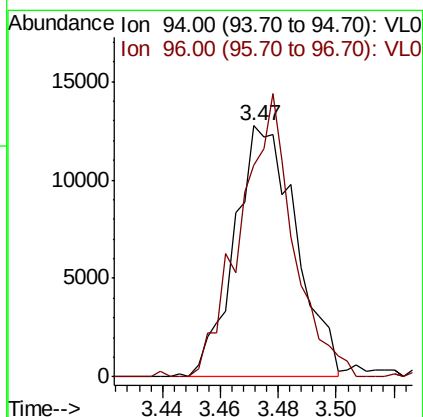
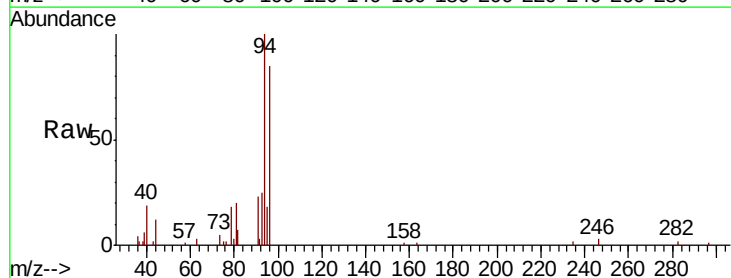
Acq: 16 Oct 2019 22:44

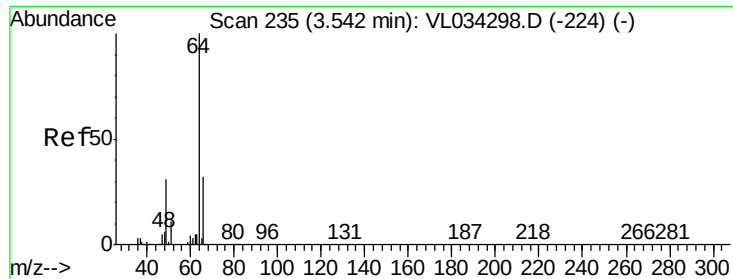
Tgt Ion: 94 Resp: 18772

Ion Ratio Lower Upper

94 100

96 84.5 74.6 112.0





#7

Chloroethane

Concen: 0.542 ppbv m

RT: 3.56 min Scan# 239

Delta R.T. 0.01 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 64 Resp: 13578

Ion Ratio Lower Upper

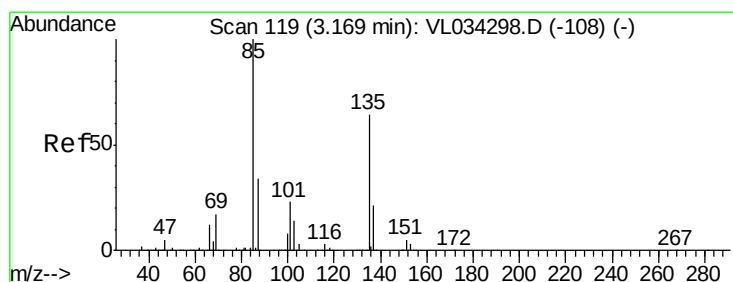
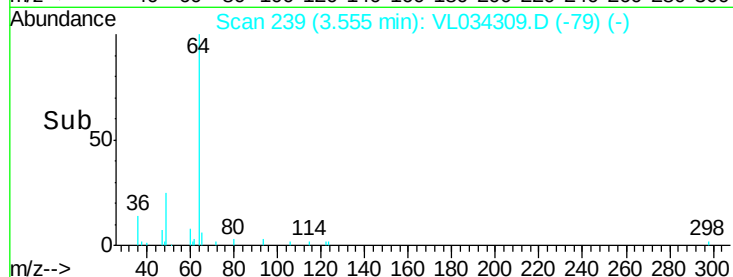
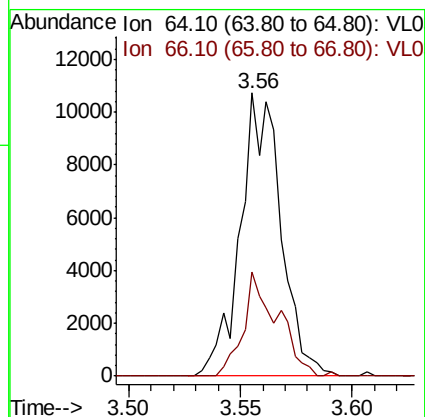
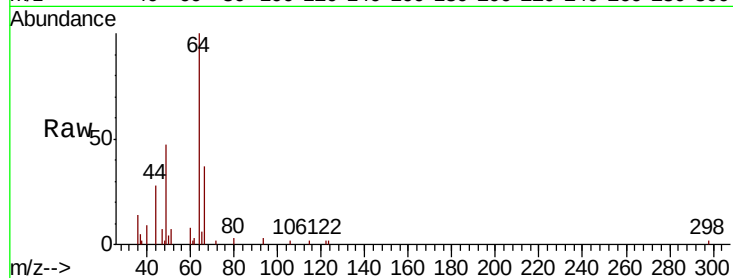
64 100

66 36.8 25.4 38.0

Manual Integrations
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#8

Dichlorotetrafluoroethane

Concen: 0.564 ppbv

RT: 3.18 min Scan# 122

Delta R.T. 0.01 min

Lab File: VL034309.D

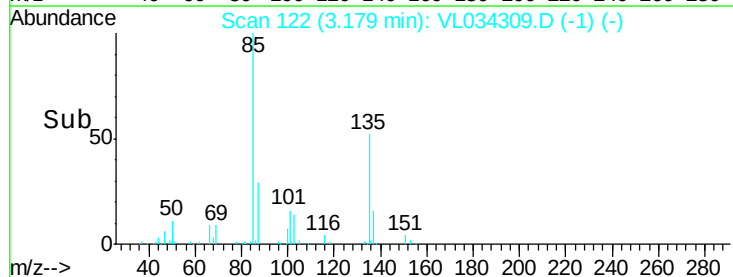
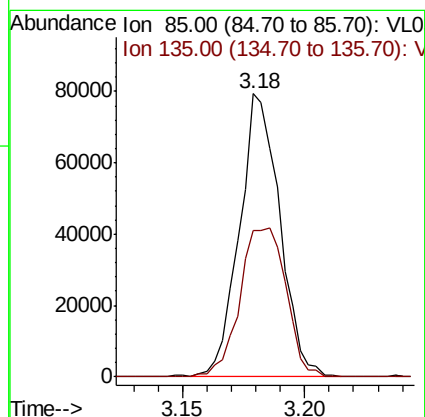
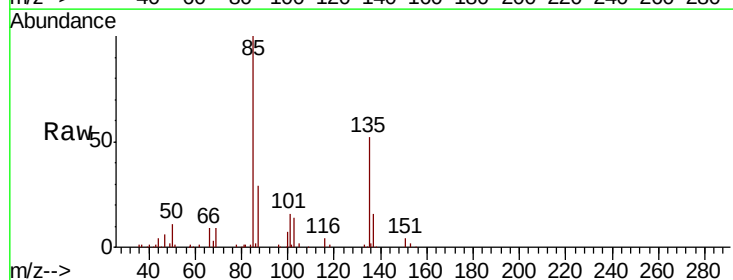
Acq: 16 Oct 2019 22:44

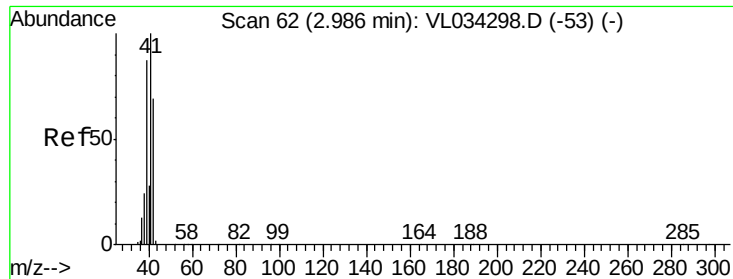
Tgt Ion: 85 Resp: 90731

Ion Ratio Lower Upper

85 100

135 60.1 50.2 75.2





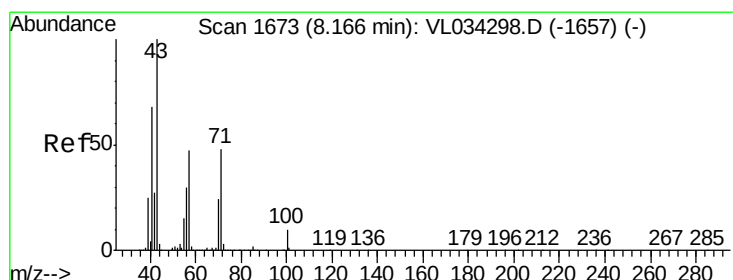
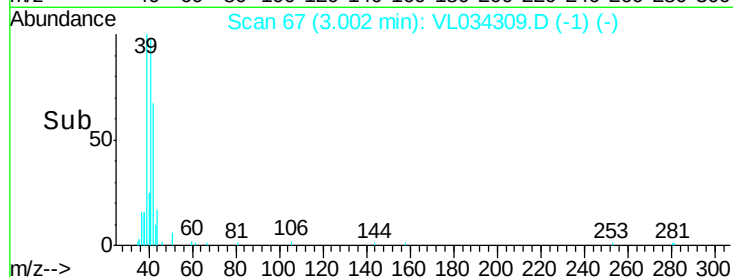
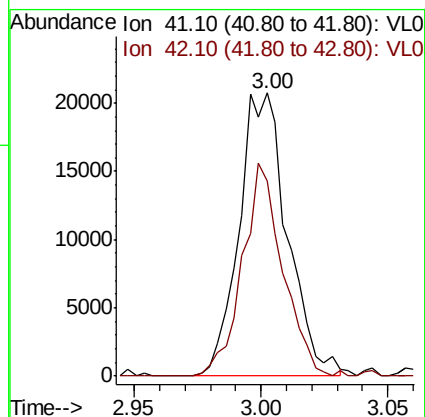
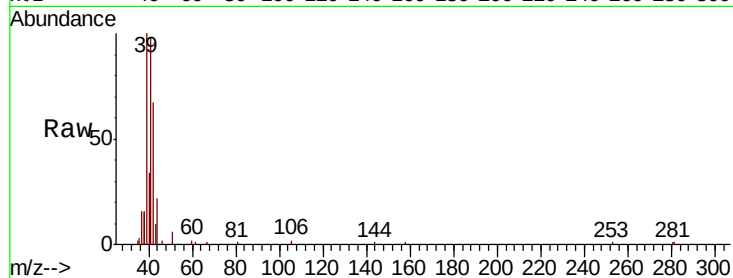
#9
Propene
Concen: 0.491 ppbv m
RT: 3.00 min Scan# 67
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion: 41 Resp: 27459
Ion Ratio Lower Upper
41 100
42 0.0 53.9 80.9#

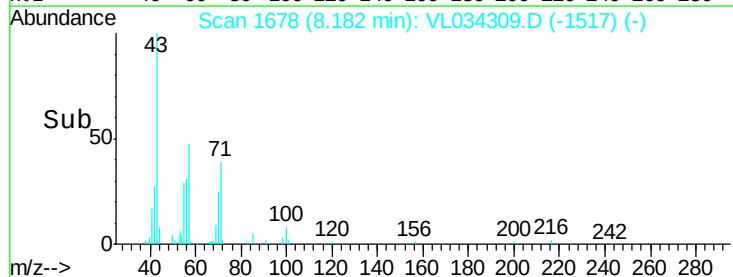
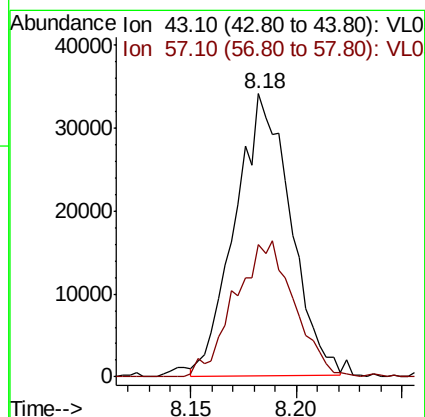
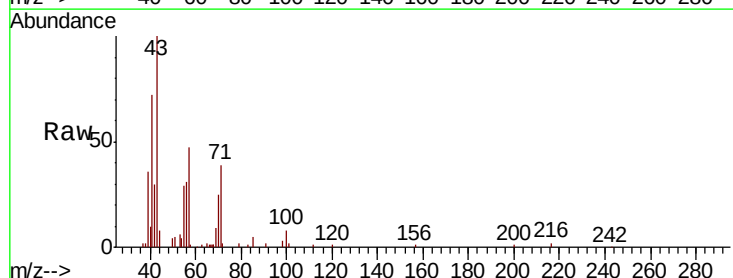
Manual Integrations
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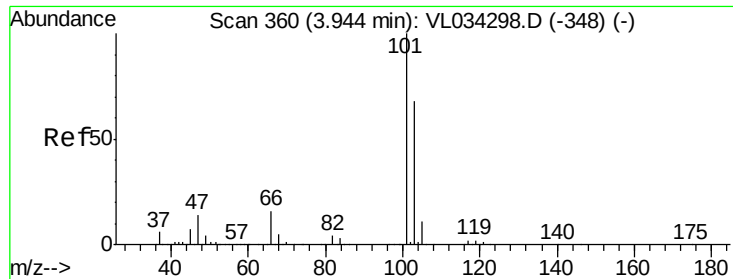
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#10
Heptane
Concen: 0.435 ppbv
RT: 8.18 min Scan# 1678
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion: 43 Resp: 62402
Ion Ratio Lower Upper
43 100
57 51.6 39.5 59.3





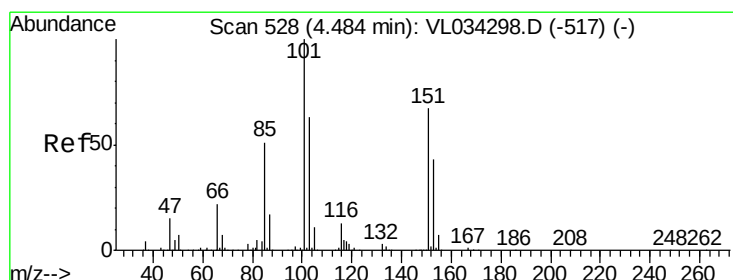
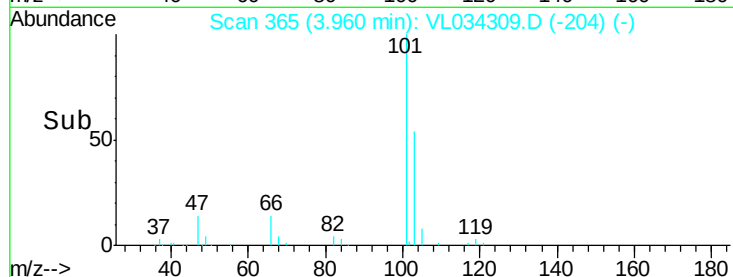
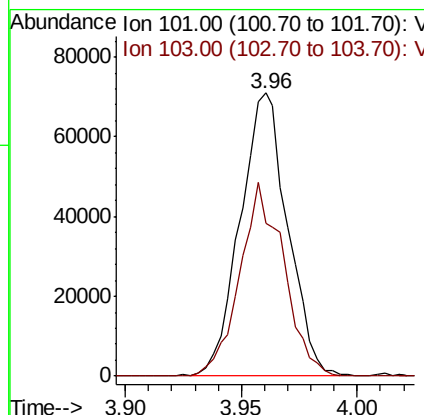
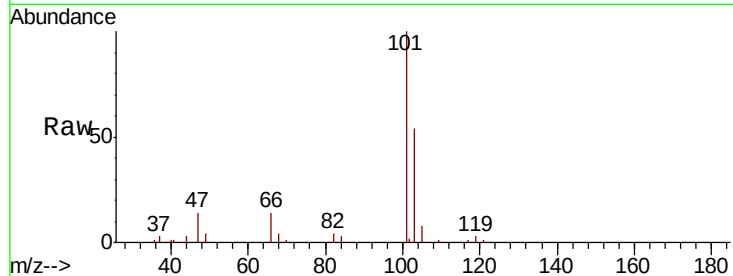
#11
 Trichlorofluoromethane
 Concen: 0.570 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		100376		
103	54.2	54.5	81.7#		

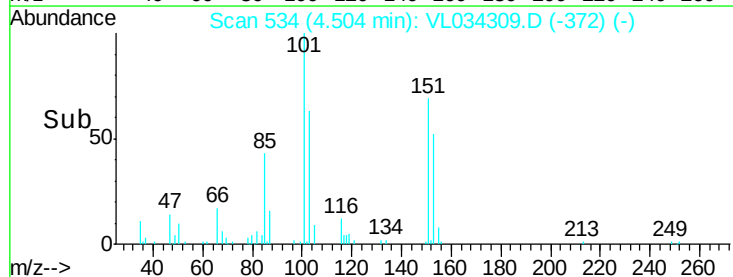
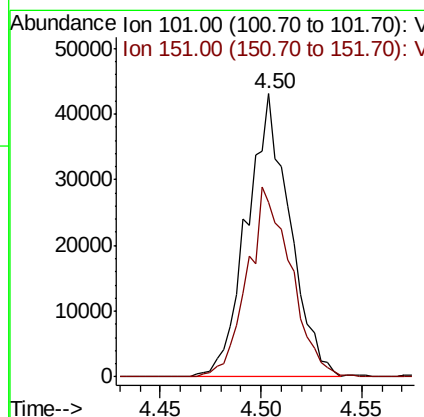
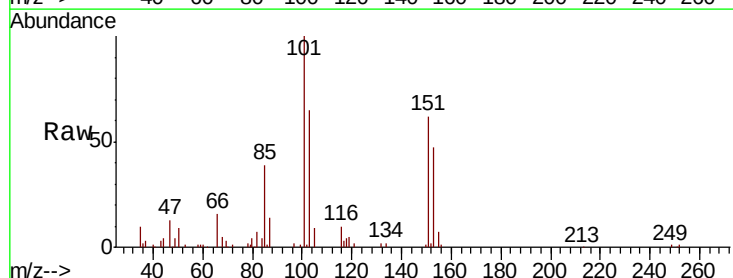
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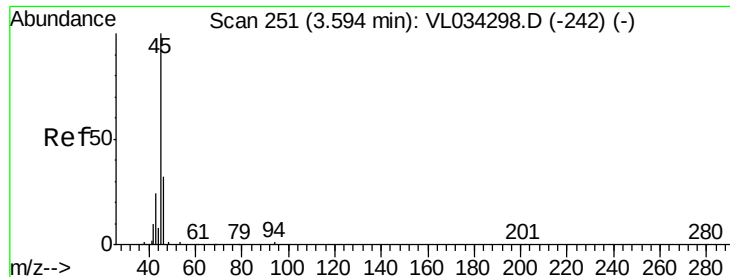
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.556 ppbv
 RT: 4.50 min Scan# 534
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
101	100		64144		
151	67.9	57.4	86.2		





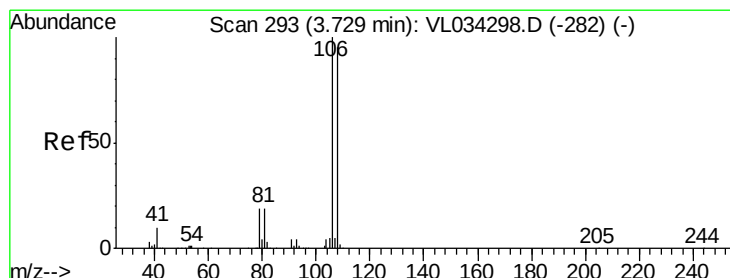
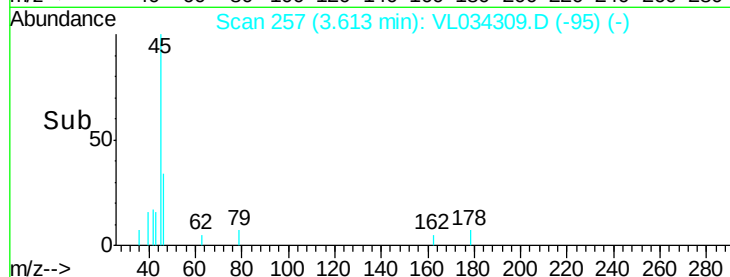
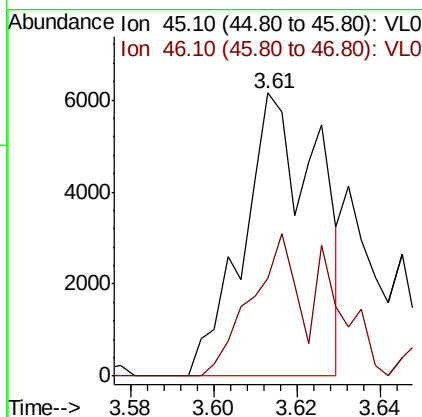
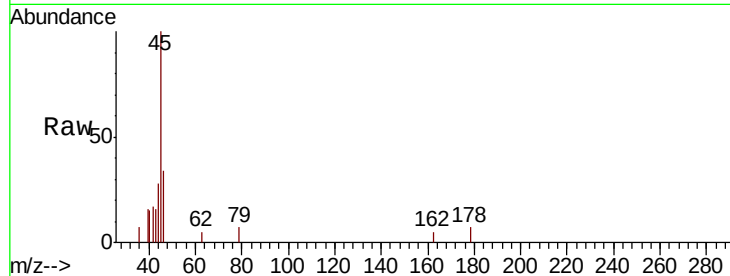
#13
Ethanol
Concen: 0.608 ppbv m
RT: 3.61 min Scan# 257
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	45	Resp	7619
Ion Ratio	100	Lower	Upper
46	52.3	15.8	63.2

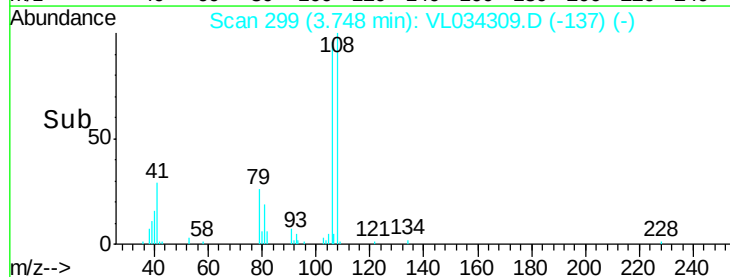
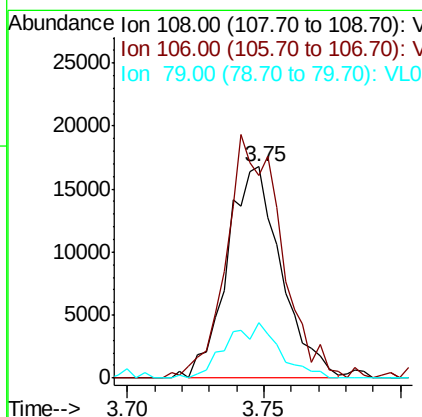
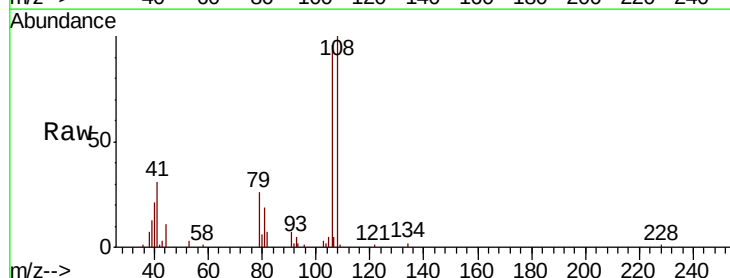
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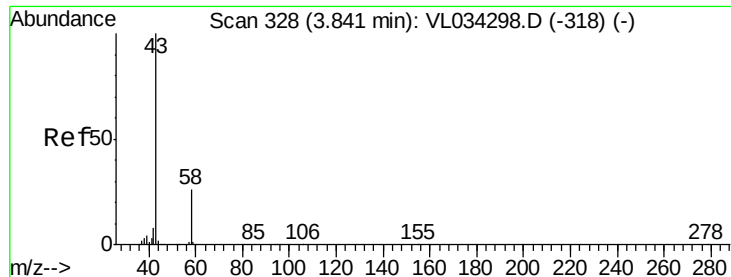
MMDadoda
10/18/2019 3:04:43 PM



#14
Bromoethene
Concen: 0.509 ppbv
RT: 3.75 min Scan# 299
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	108	Resp	23111
Ion Ratio	100	Lower	Upper
106	118.3	84.8	127.2
79	25.7	17.0	25.4#





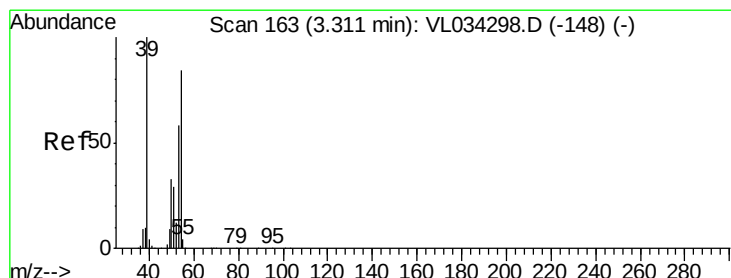
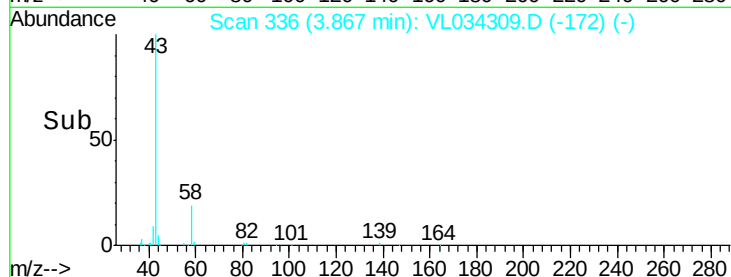
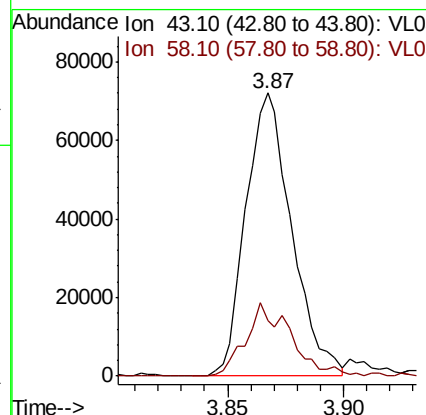
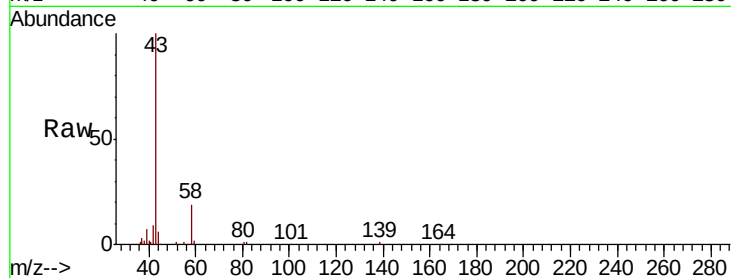
#15
Acetone
Concen: 0.644 ppbv
RT: 3.87 min Scan# 336
Delta R.T. 0.03 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	25.5	20.4	30.6

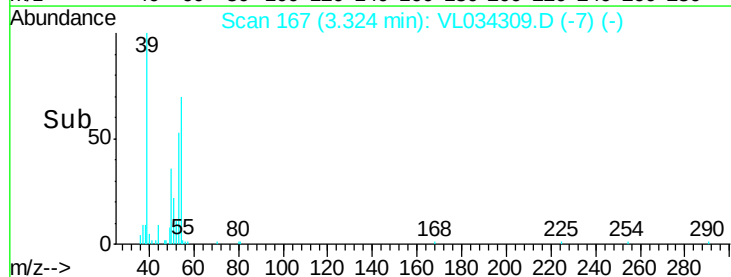
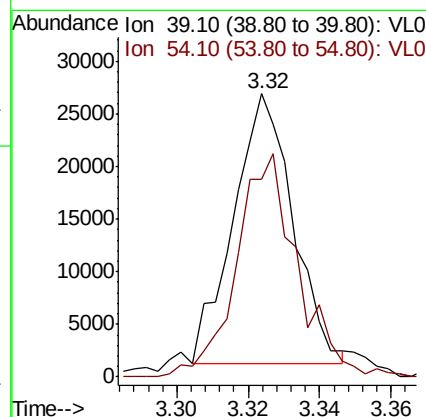
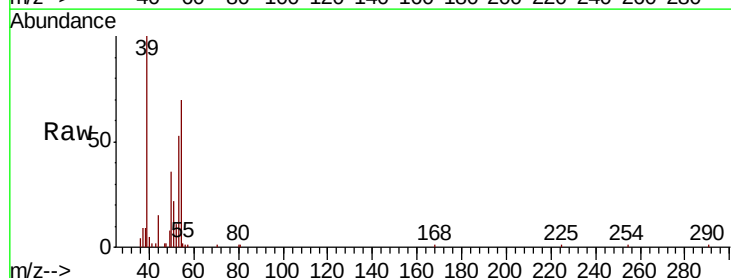
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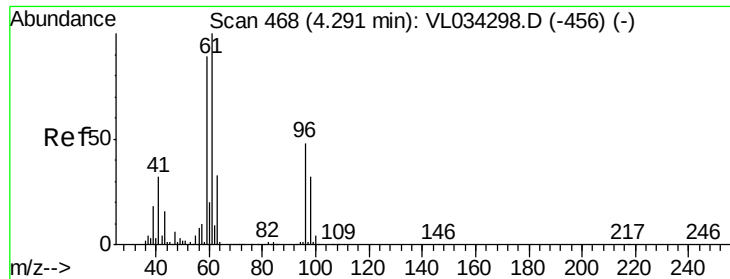
MMDadoda
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#16
1,3-Butadiene
Concen: 0.474 ppbv
RT: 3.32 min Scan# 167
Delta R.T. 0.01 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
39	100		
54	85.3	63.9	95.9





#17

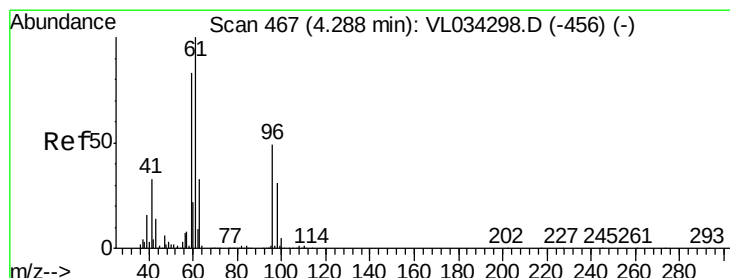
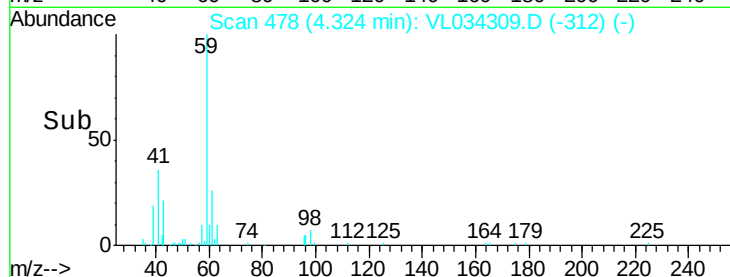
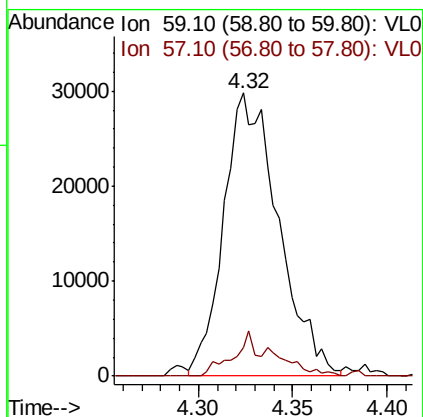
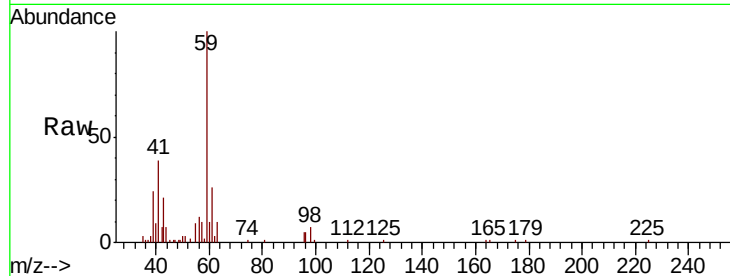
tert-Butyl alcohol
Concen: 0.611 ppbv m
RT: 4.32 min Scan# 478
Delta R.T. 0.03 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion: 59 Resp: 60029
Ion Ratio Lower Upper
59 100
57 0.0 8.8 13.2#

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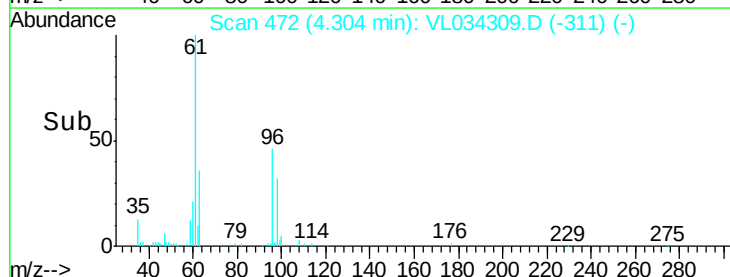
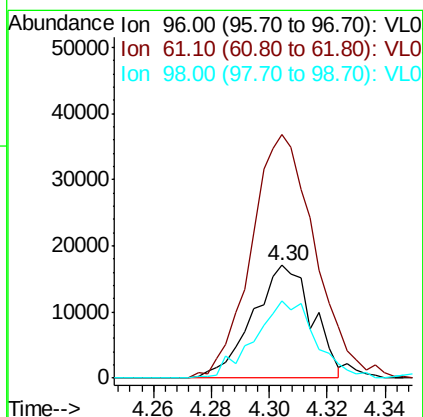
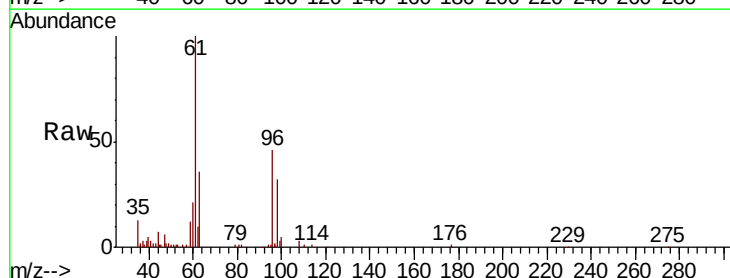
MMDadoda
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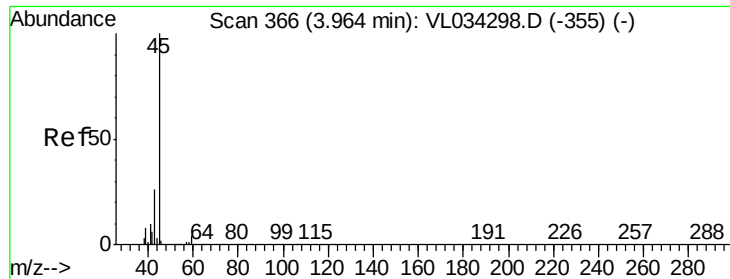


#18

1,1-Dichloroethene
Concen: 0.479 ppbv
RT: 4.30 min Scan# 472
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion: 96 Resp: 24222
Ion Ratio Lower Upper
96 100
61 216.4 164.5 246.7
98 68.7 51.7 77.5





#19

Isopropyl Alcohol

Concen: 0.587 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.03 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion: 45 Resp: 50430

Ion Ratio Lower Upper

45 100

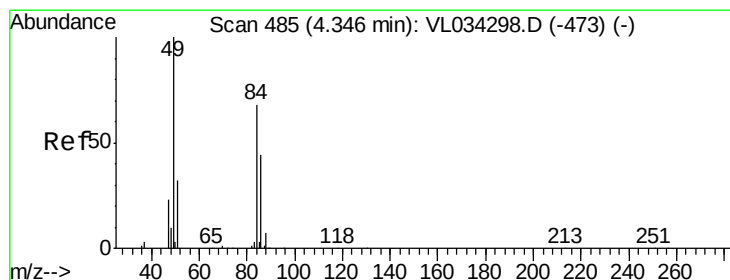
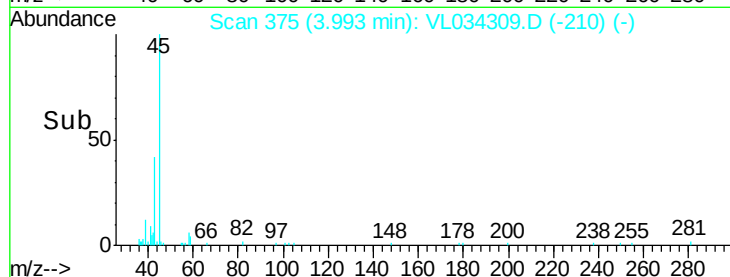
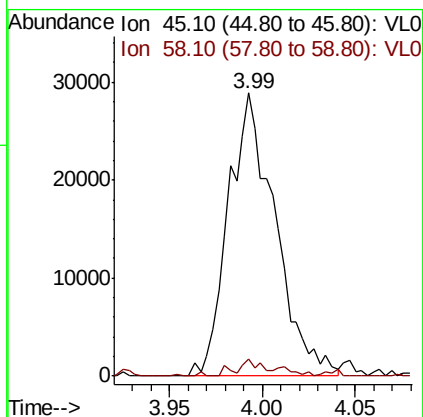
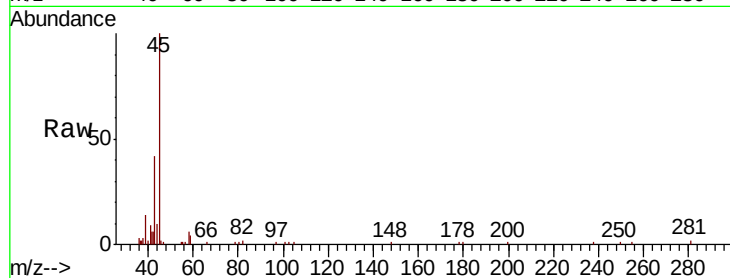
58 5.2 1.4 2.2#

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#20

Methylene Chloride

Concen: 0.638 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.01 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion: 84 Resp: 35528

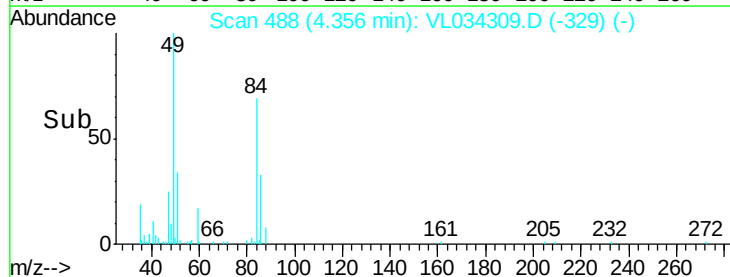
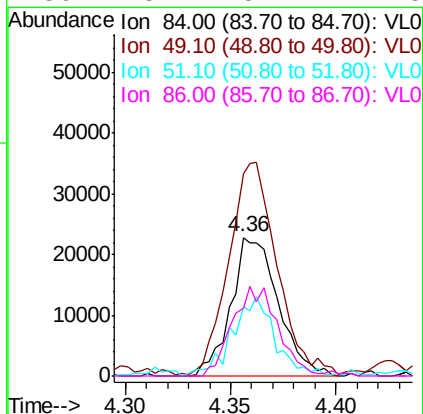
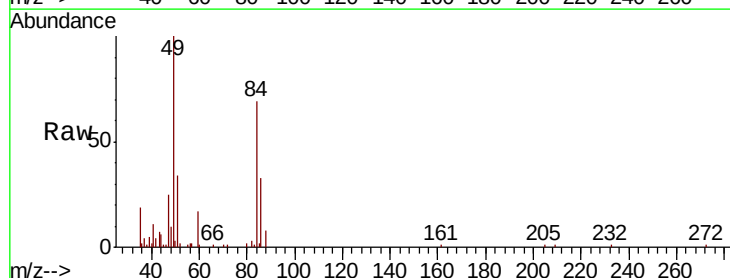
Ion Ratio Lower Upper

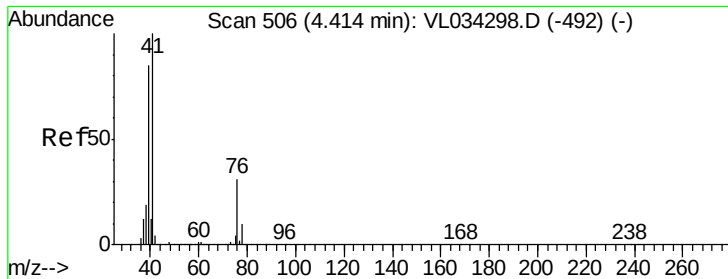
84 100

49 144.6 118.5 177.7

51 48.4 38.8 58.2

86 48.4 51.7 77.5#





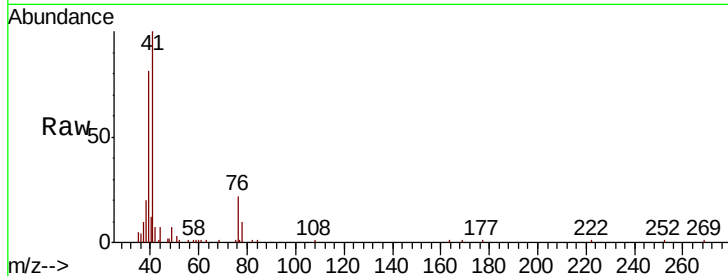
#21
Allvl Chloride
Concen: 0.521 ppbv
RT: 4.43 min Scan# 511
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

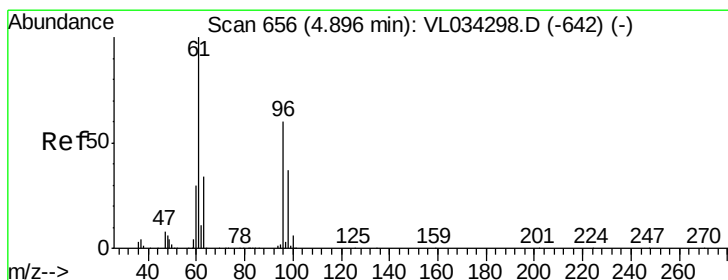
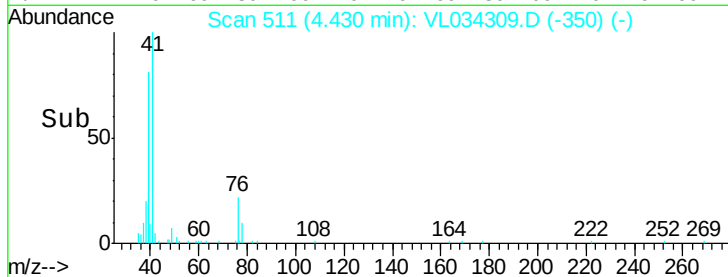
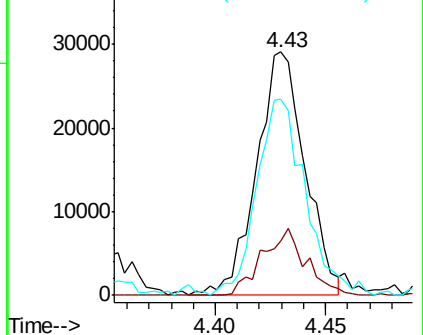
Tot Ion	Ratio	Lower	Upper
41	100		
76	25.1	22.8	34.2
39	82.5	66.0	99.0

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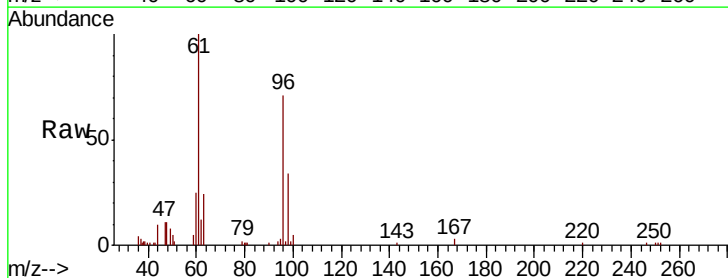


Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0

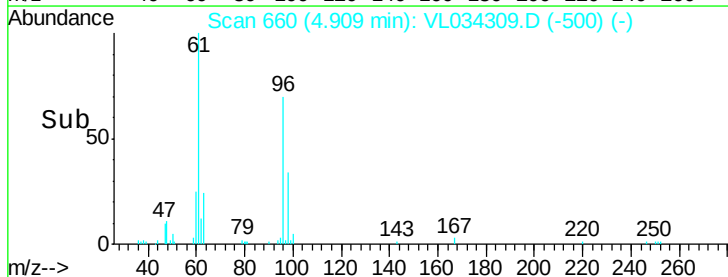
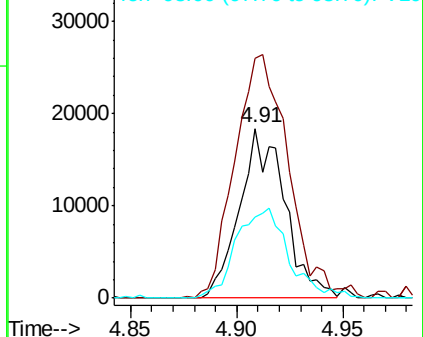


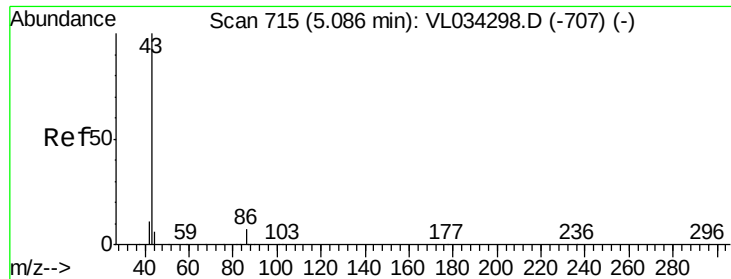
#22
trans-1,2-Dichloroethene
Concen: 0.538 ppbv m
RT: 4.91 min Scan# 660
Delta R.T. 0.01 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
96	100		
61	141.3	133.8	200.6
98	47.5	49.4	74.0#



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





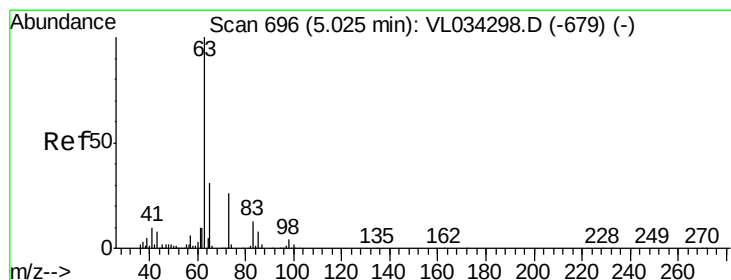
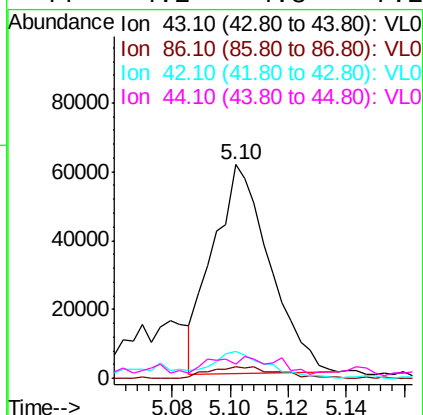
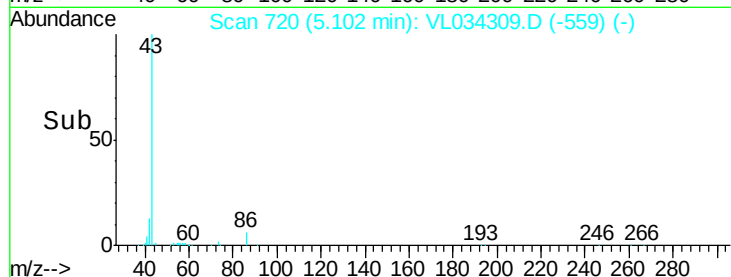
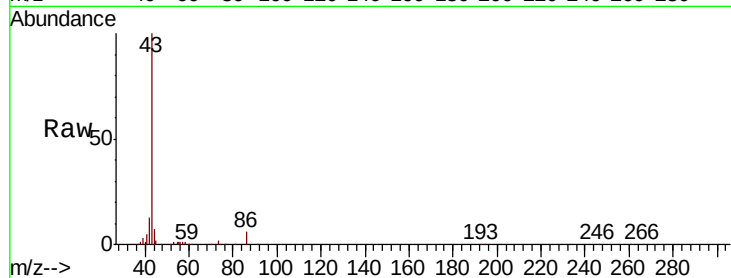
#23
 Vinyl Acetate
 Concen: 0.429 ppbv
 RT: 5.10 min Scan# 720
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	43	Resp	82466
Ion	Ratio	Lower	Upper
43	100		
86	5.1	5.0	7.4
42	13.2	8.6	13.0#
44	4.2	4.8	7.2#

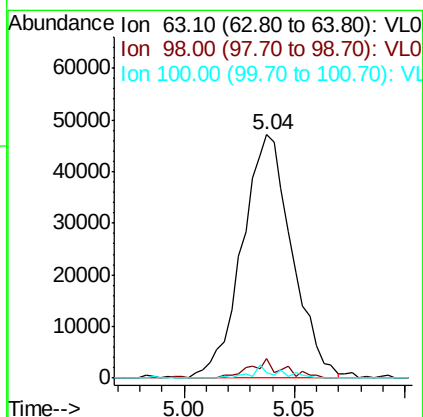
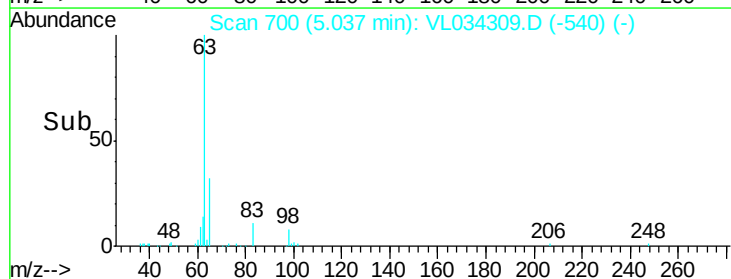
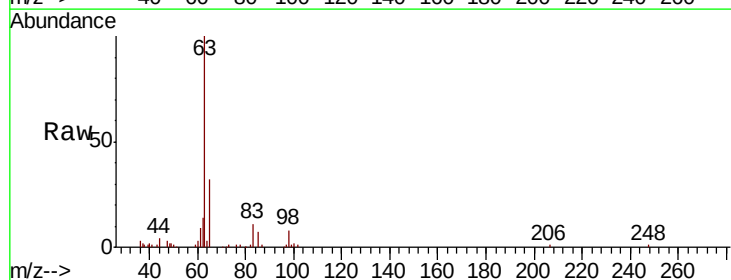
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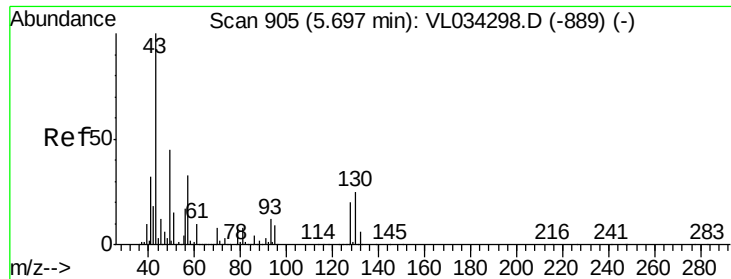
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 0.516 ppbv
 RT: 5.04 min Scan# 700
 Delta R.T. 0.01 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Tgt Ion	63	Resp	73671
Ion	Ratio	Lower	Upper
63	100		
98	7.9	2.0	6.0#
100	2.4	1.1	3.5





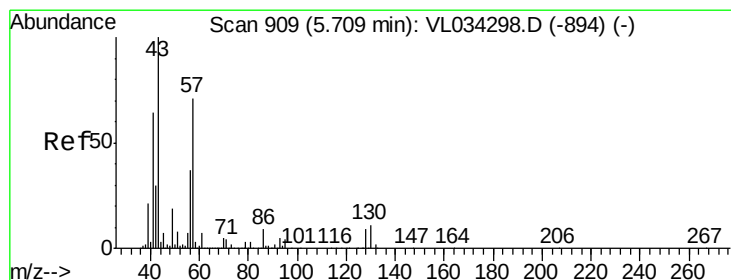
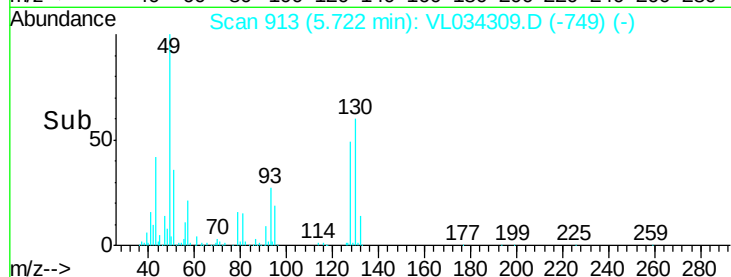
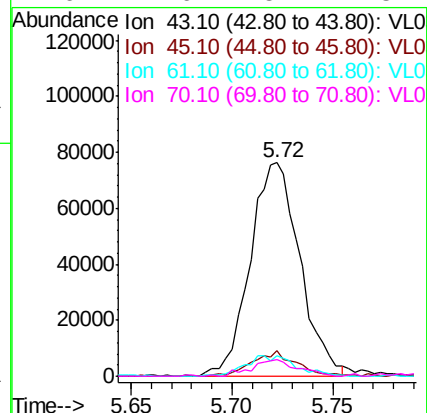
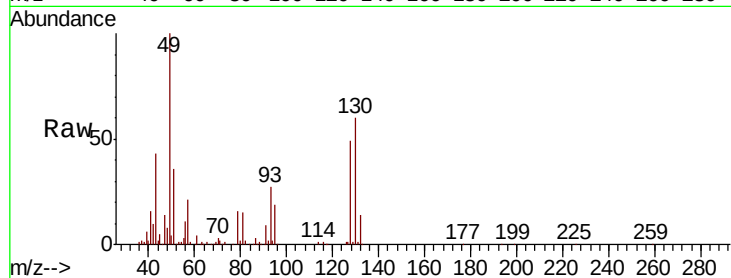
#25
Ethyl Acetate
Concen: 0.506 ppbv
RT: 5.72 min Scan# 913
Delta R.T. 0.03 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
45	11.1	8.3	12.5		
61	9.9	7.7	11.5		
70	7.6	5.4	8.2		

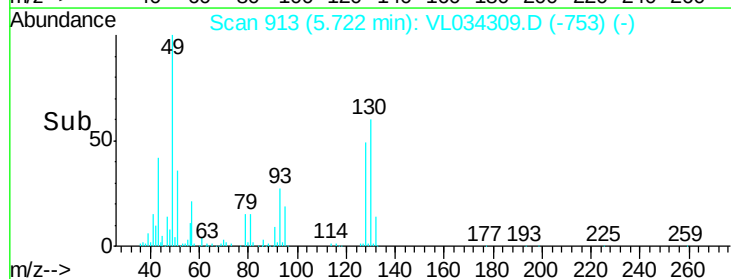
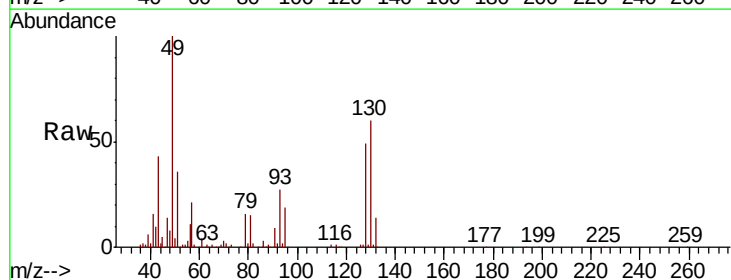
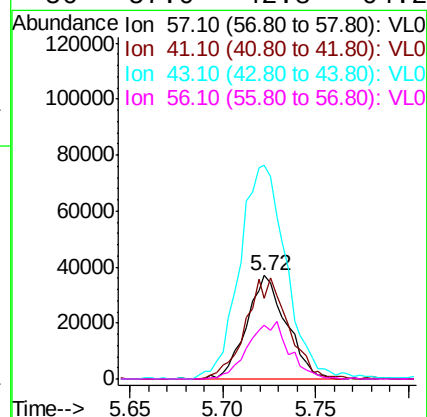
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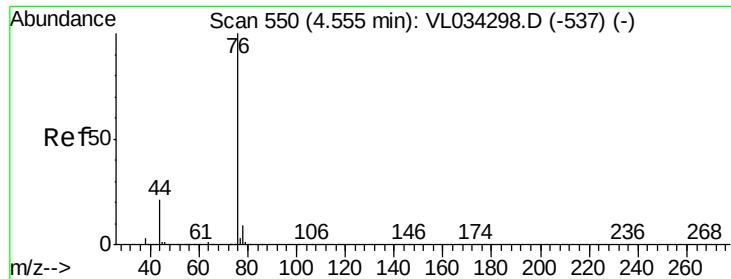
MMDadoda
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#26
Hexane
Concen: 0.498 ppbv
RT: 5.72 min Scan# 913
Delta R.T. 0.01 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	105.2	76.5	114.7		
43	244.3	188.5	282.7		
56	57.0	42.8	64.2		





#27

Carbon Disulfide

Concen: 0.454 ppbv

RT: 4.57 min Scan# 555

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

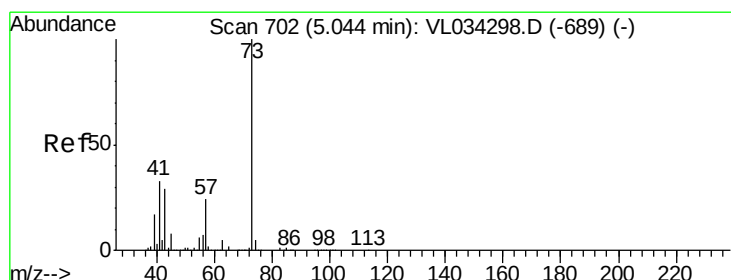
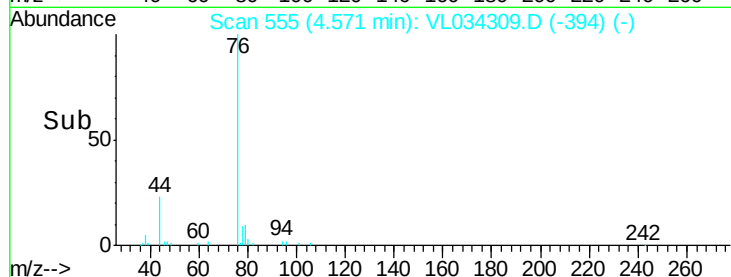
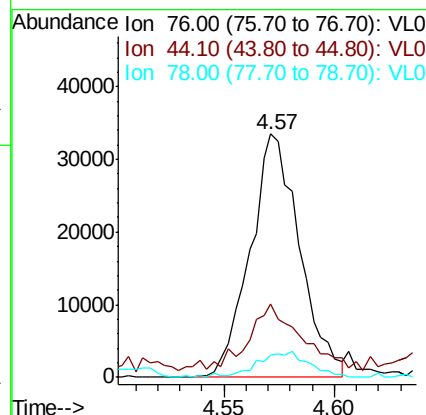
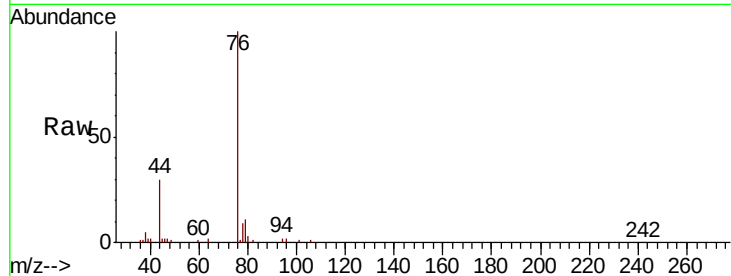
ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion:	76	Resp:	52226
Ion	Ratio	Lower	Upper
76	100		
44	32.7	17.3	25.9#
78	11.2	7.8	11.6

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.460 ppbv

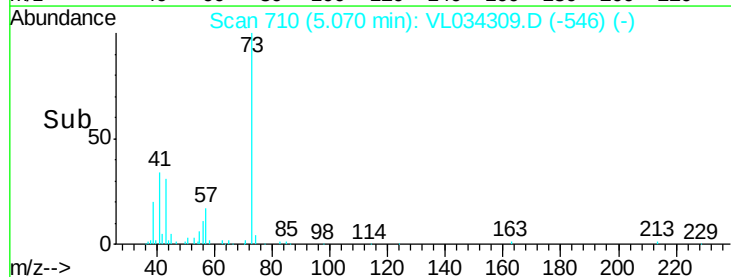
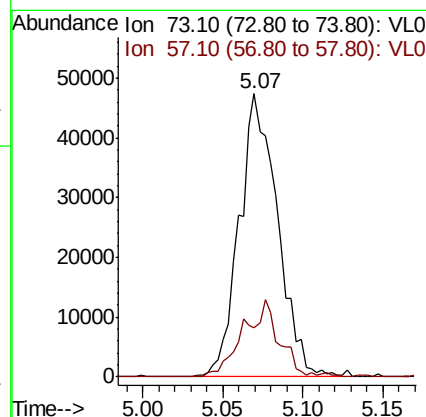
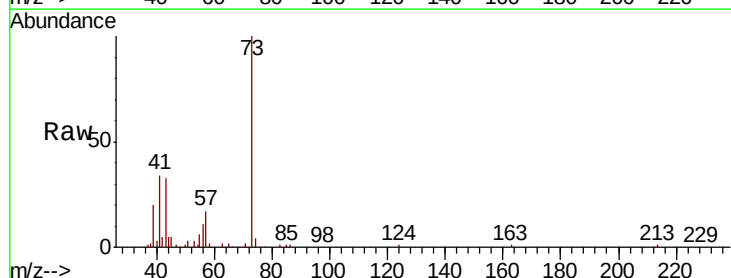
RT: 5.07 min Scan# 710

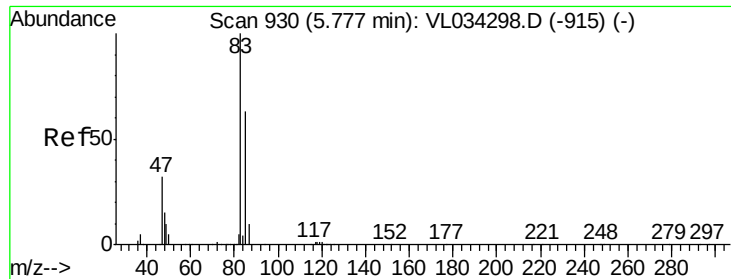
Delta R.T. 0.03 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion:	73	Resp:	77077
Ion	Ratio	Lower	Upper
73	100		
57	26.3	19.2	28.8





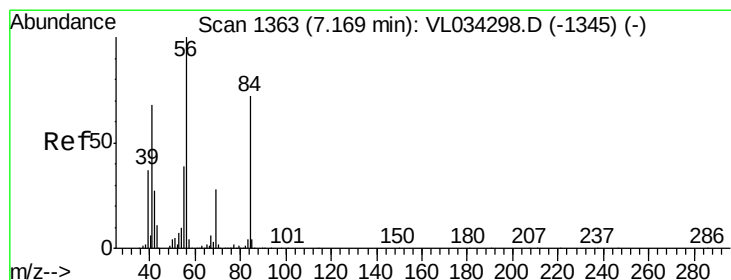
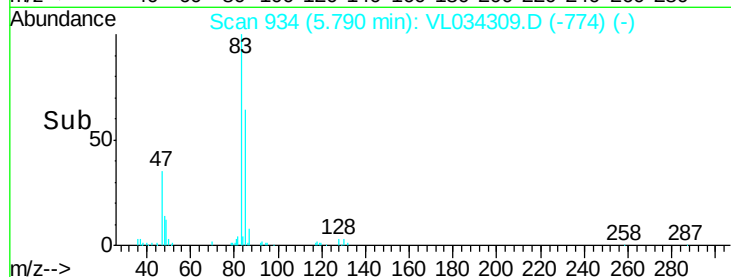
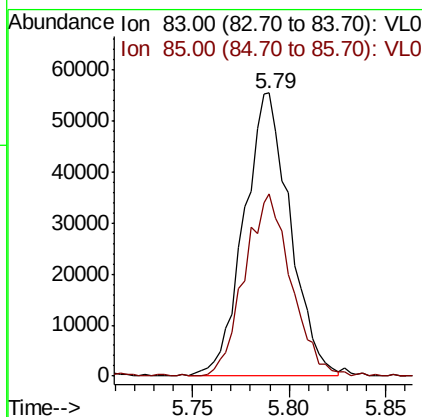
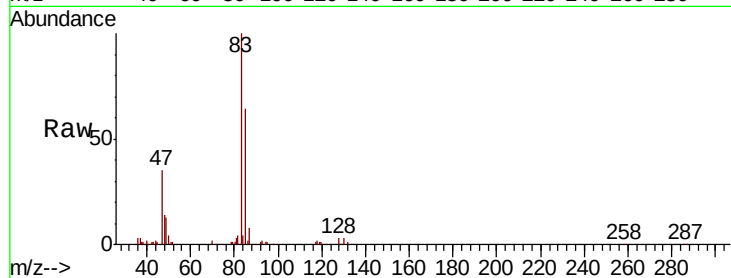
#29
Chloroform
Concen: 0.525 ppbv
RT: 5.79 min Scan# 934
Delta R.T. 0.01 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	83	Resp	91922
Ion Ratio	100	Lower	Upper
83	100		
85	64.2	50.5	75.7

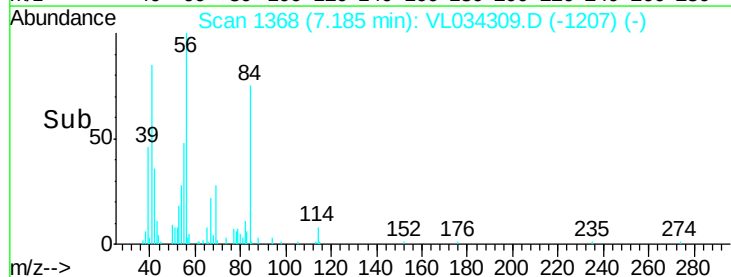
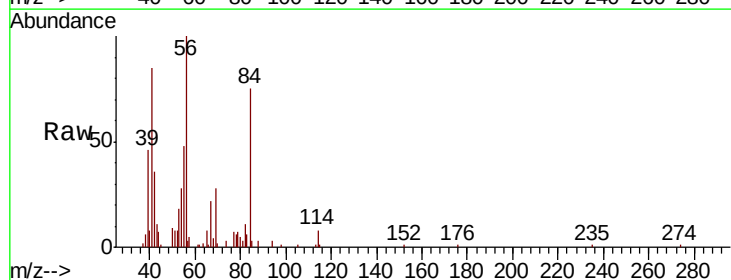
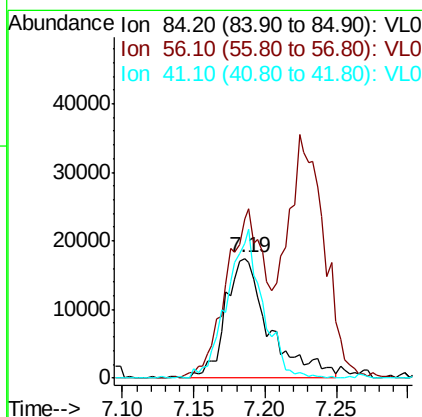
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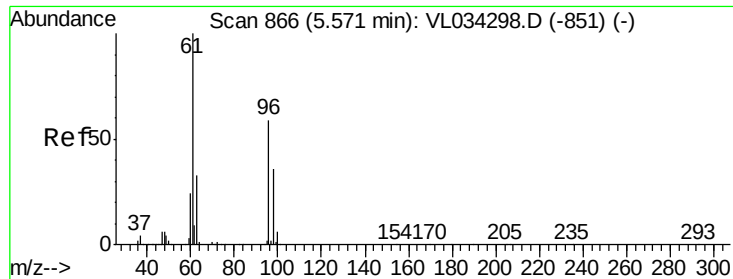
MMDadoda
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#30
Cyclohexane
Concen: 0.459 ppbv m
RT: 7.19 min Scan# 1368
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	84	Resp	37366
Ion Ratio	100	Lower	Upper
84	100		
56	128.7	119.4	179.0
41	100.9	78.7	118.1





#31

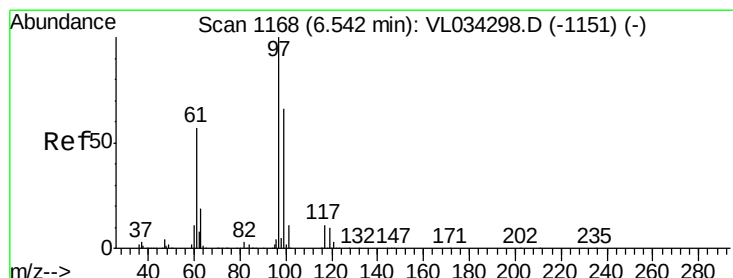
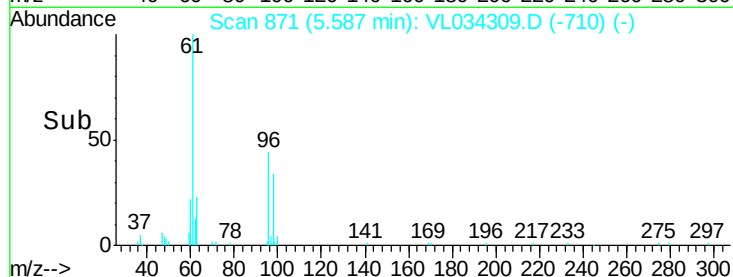
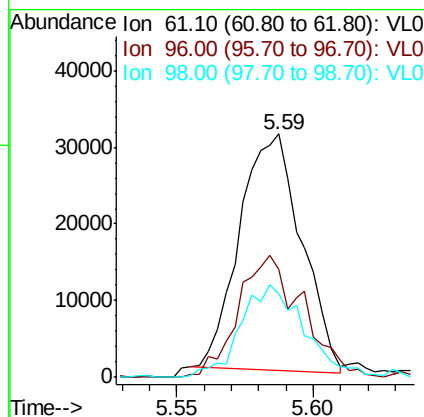
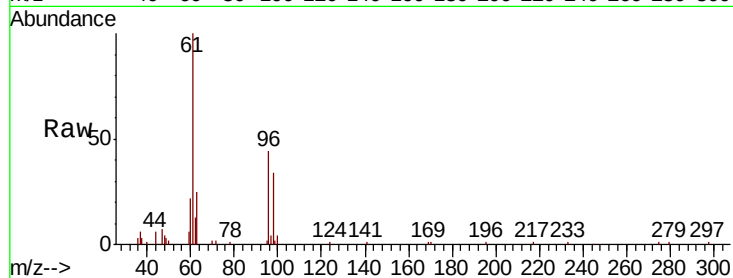
cis-1,2-Dichloroethene
Concen: 0.432 ppbv
RT: 5.59 min Scan# 871
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
61	100		
96	45.2	47.5	71.3#
98	37.3	28.8	43.2

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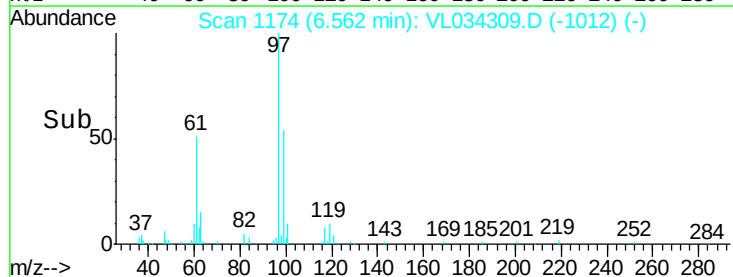
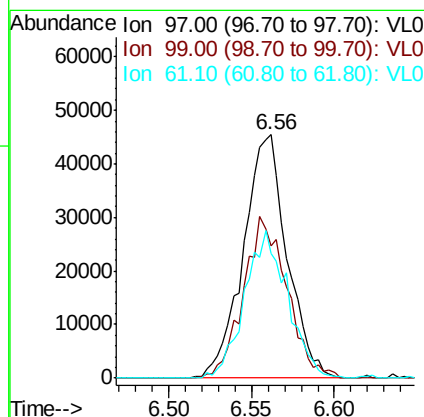
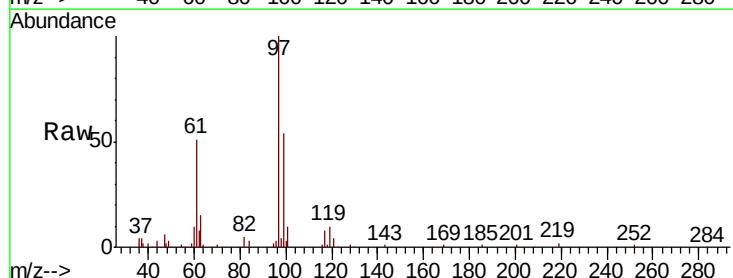
MMDadoda
10/18/2019 3:04:43 PM

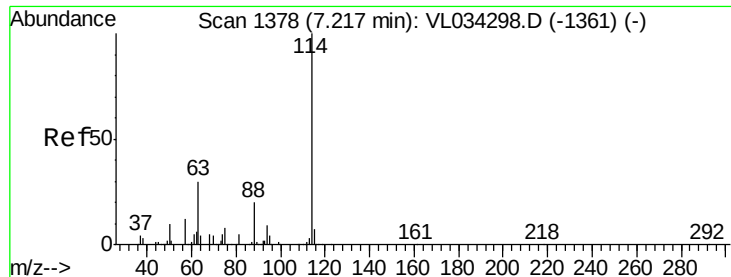


#32

1,1,1-Trichloroethane
Concen: 0.489 ppbv
RT: 6.56 min Scan# 1174
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.7	52.6	78.8
61	59.4	44.5	66.7





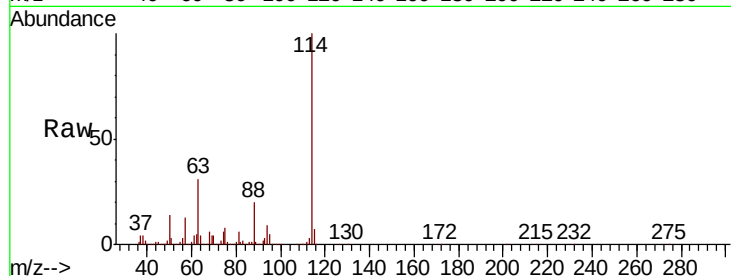
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1382
 Delta R.T. 0.01 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

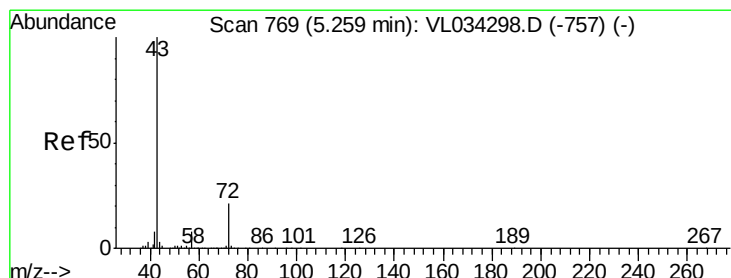
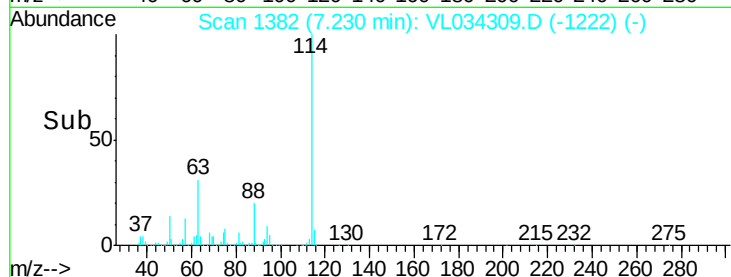
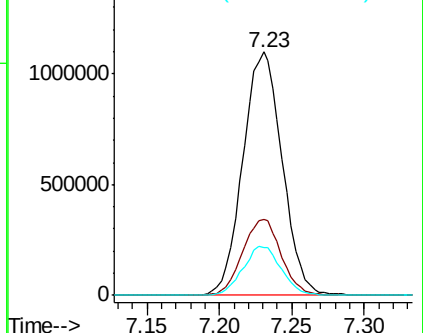
Tot Ion	Ratio	Lower	Upper
114	100		
63	31.0	25.2	37.8
88	19.6	16.0	24.0

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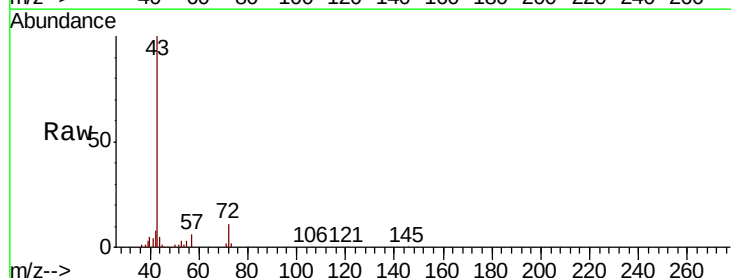


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

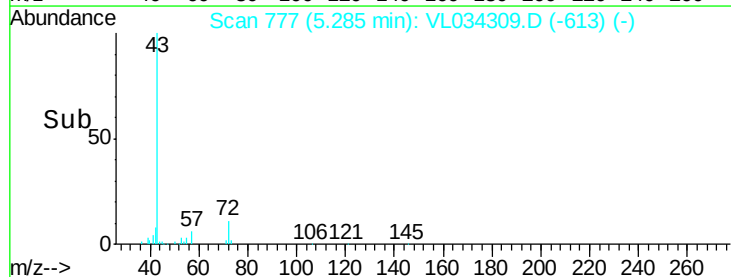
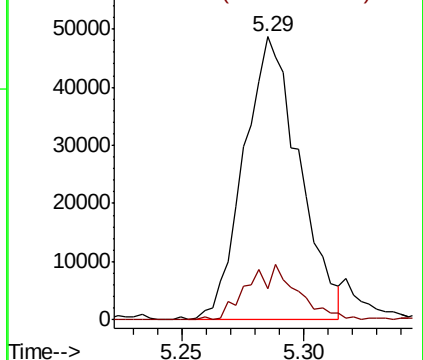


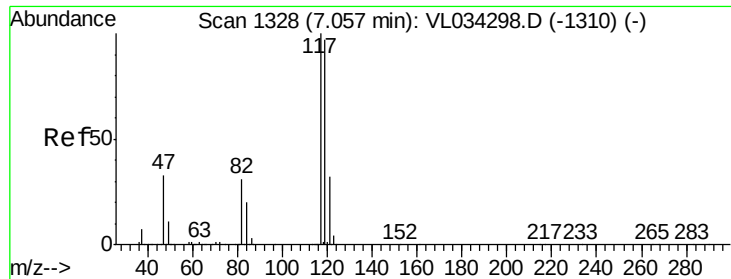
#34
 2-Butanone
 Concen: 0.449 ppbv
 RT: 5.29 min Scan# 777
 Delta R.T. 0.03 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
43	100		
72	18.0	16.3	24.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.494 ppbv m

RT: 7.07 min Scan# 1332

Delta R.T. 0.01 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

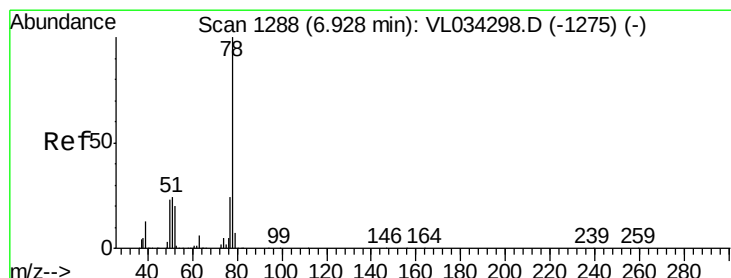
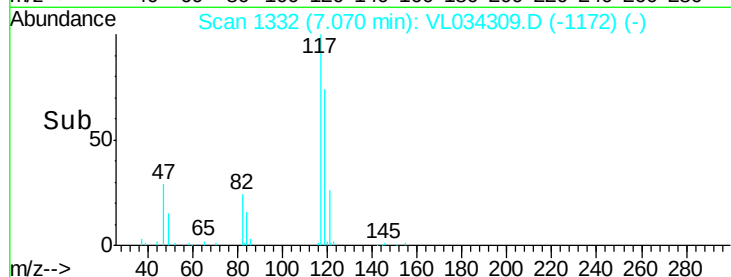
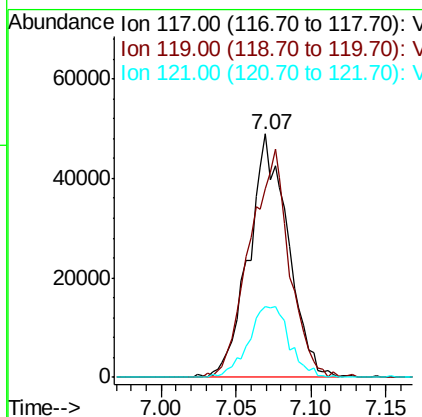
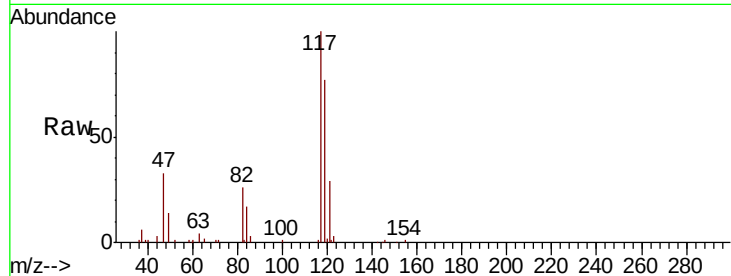
ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion:	117	Resp:	89281
Ion Ratio	Lower	Upper	
117	100		
119	77.4	77.3	115.9
121	29.2	25.5	38.3

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#36

Benzene

Concen: 0.463 ppbv

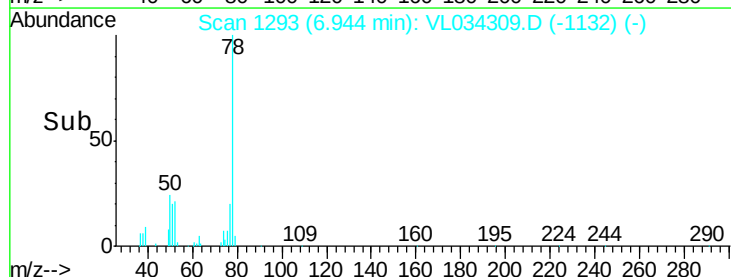
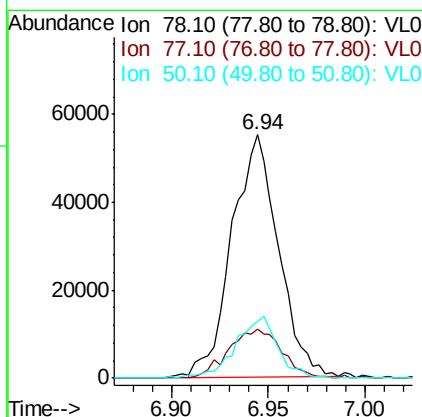
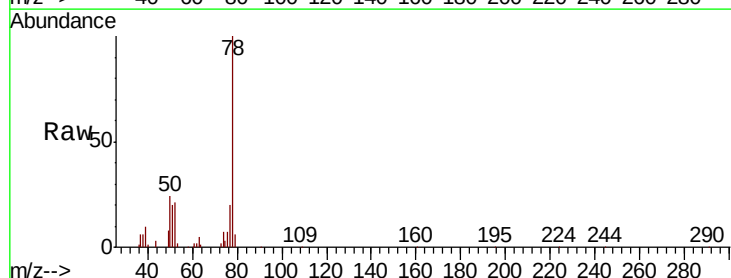
RT: 6.94 min Scan# 1293

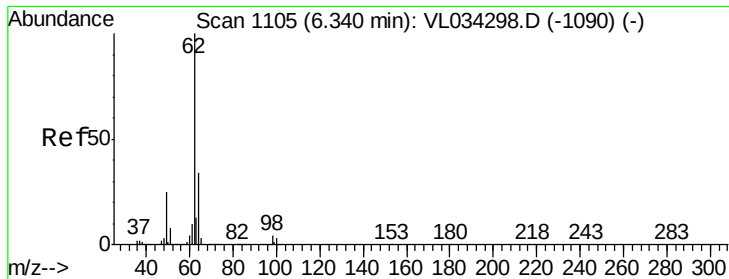
Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion:	78	Resp:	92226
Ion Ratio	Lower	Upper	
78	100		
77	20.3	19.0	28.4
50	23.3	18.6	27.8





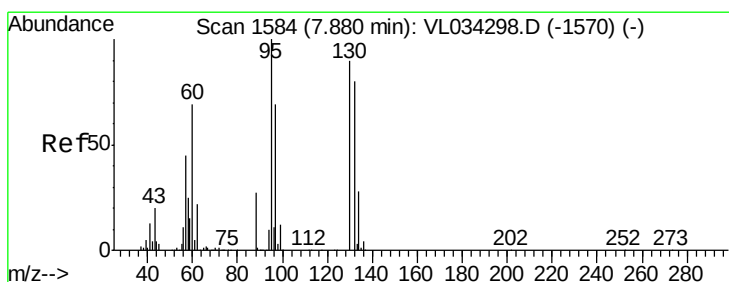
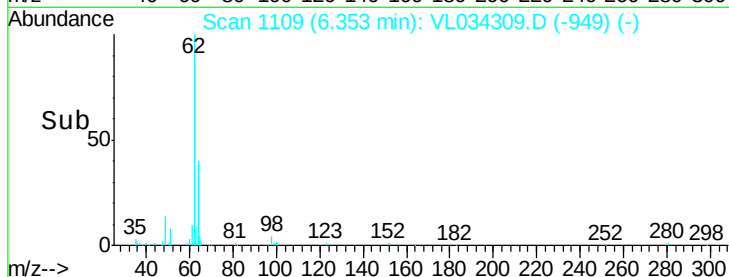
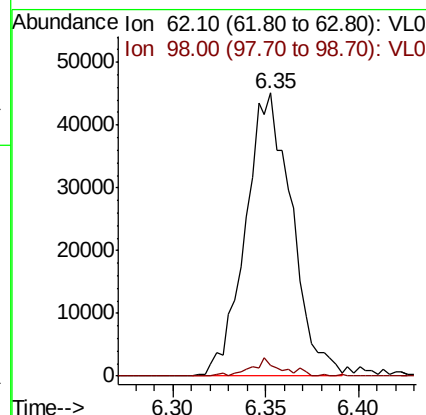
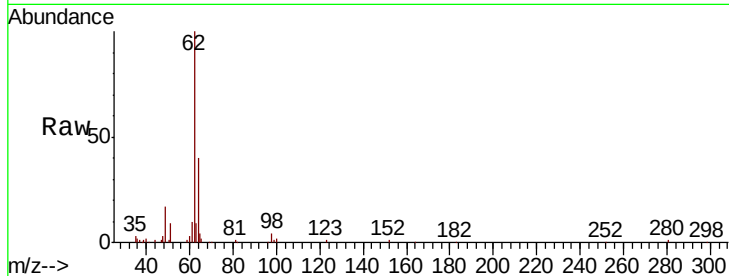
#37
 1,2-Dichloroethane
 Concen: 0.530 ppbv
 RT: 6.35 min Scan# 1109
 Delta R.T. 0.01 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
62	100		
98	4.2	3.8	5.6

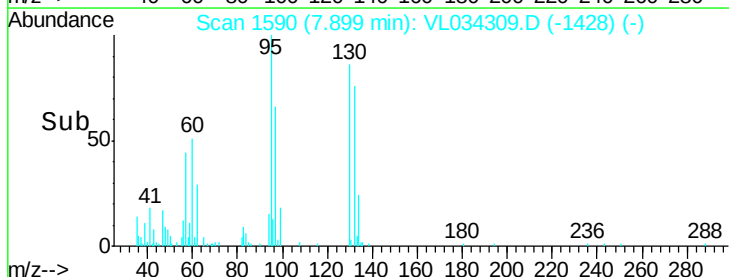
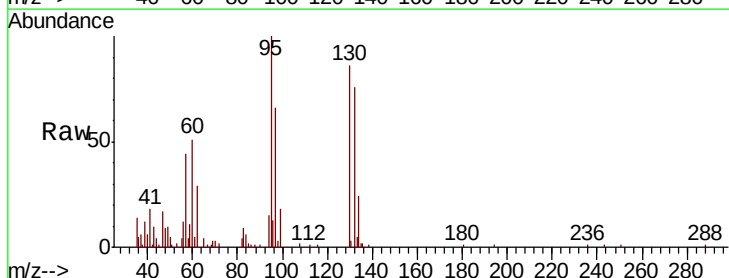
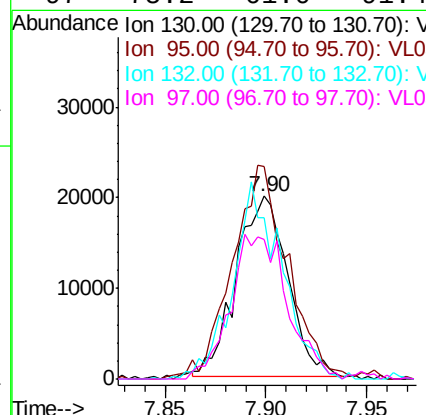
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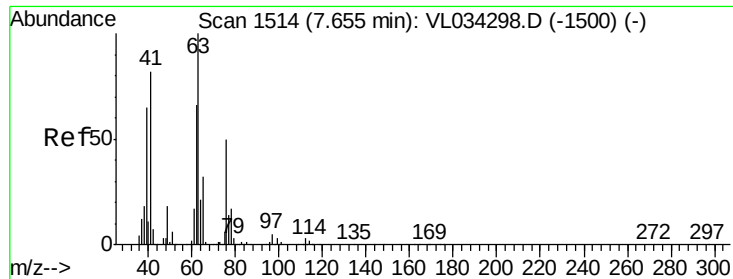
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#38
 Trichloroethene
 Concen: 0.447 ppbv
 RT: 7.90 min Scan# 1590
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
130	100		
95	110.3	88.6	132.8
132	87.1	71.2	106.8
97	75.2	61.0	91.4





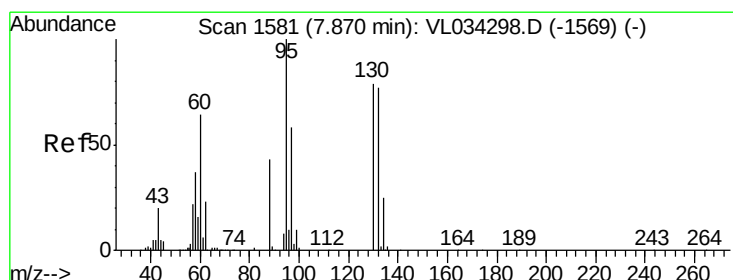
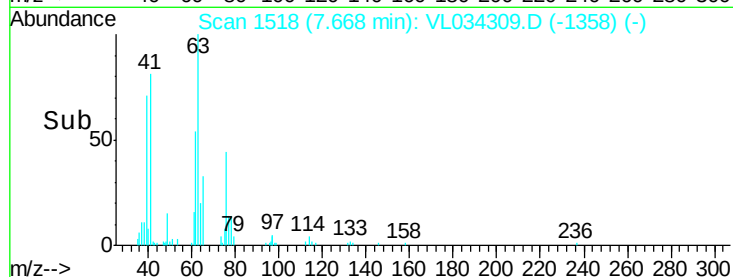
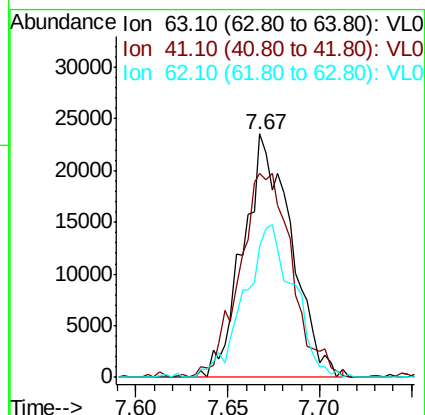
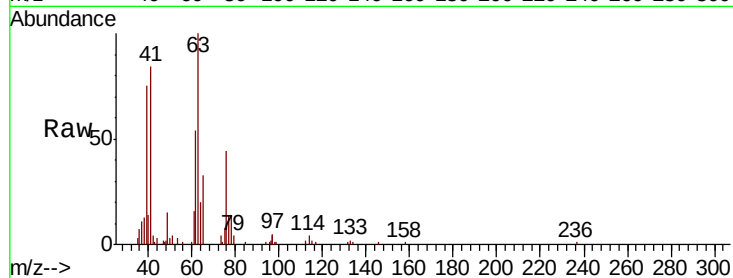
#39
 1,2-Dichloropropane
 Concen: 0.499 ppbv m
 RT: 7.67 min Scan# 1518
 Delta R.T. 0.01 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
63	100		
41	83.9	65.6	98.4
62	53.9	53.0	79.6

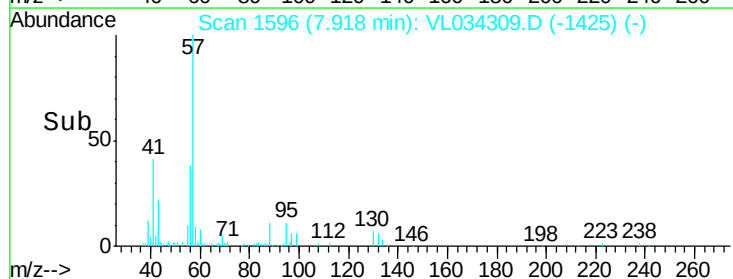
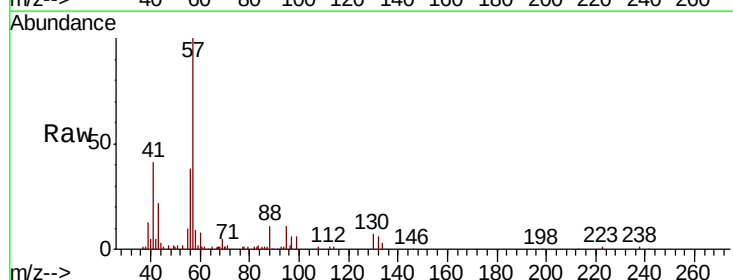
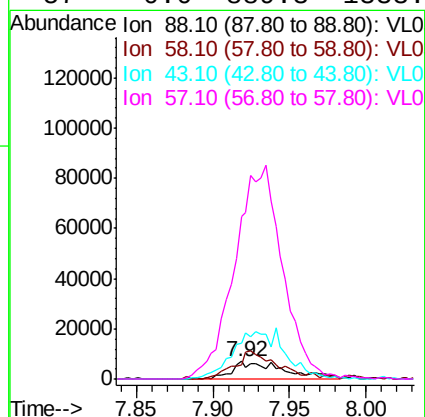
Manual Integrations
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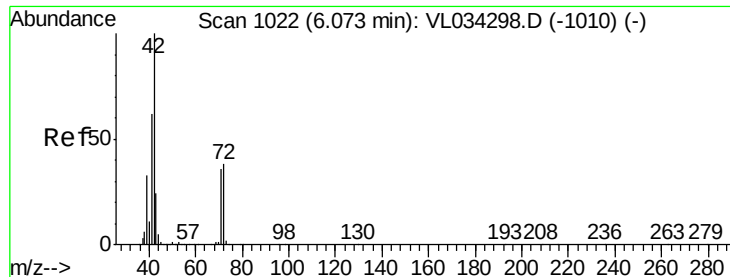
MMDadoda
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#40
 1,4-Dioxane
 Concen: 0.553 ppbv m
 RT: 7.92 min Scan# 1596
 Delta R.T. 0.05 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

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





#41

Tetrahydrofuran

Concen: 0.422 ppbv

RT: 6.11 min Scan# 1035

Delta R.T. 0.04 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

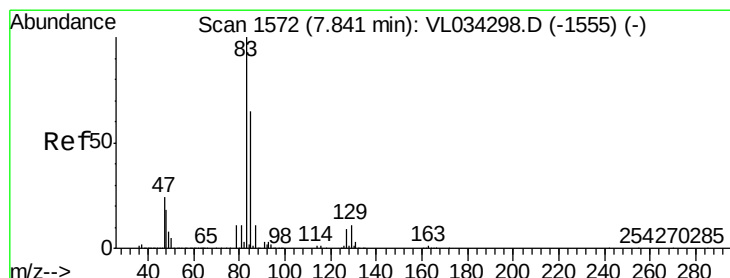
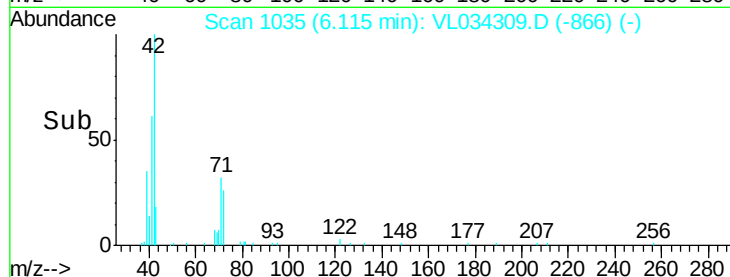
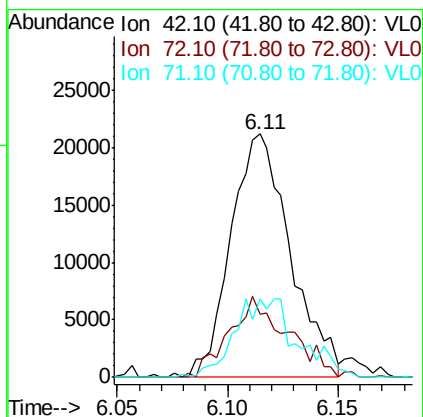
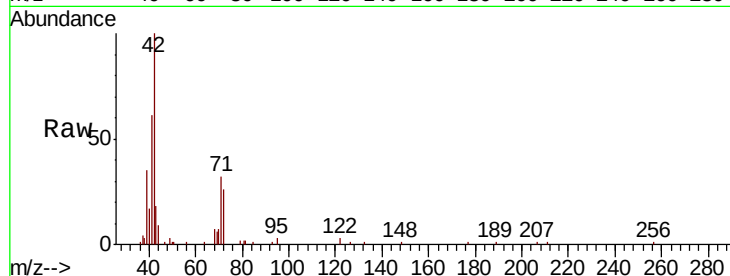
ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion	Ion	Ratio	Resp	Lower	Upper
42	100		39730		
72	32.9	28.0	42.0		
71	34.1	27.3	40.9		

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#42

Bromodichloromethane

Concen: 0.483 ppbv

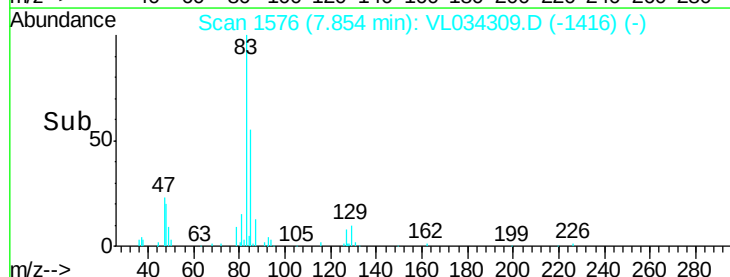
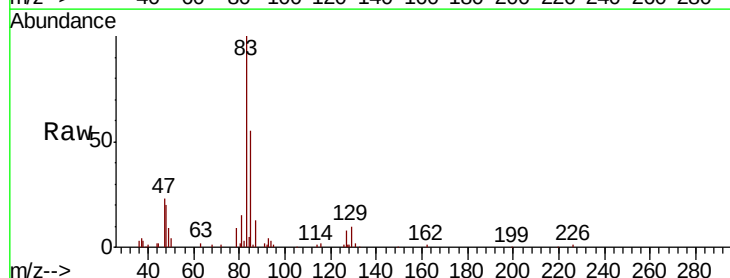
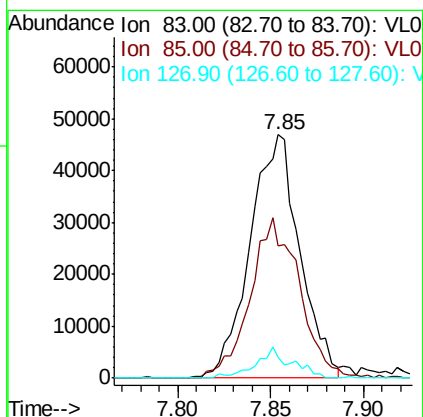
RT: 7.85 min Scan# 1576

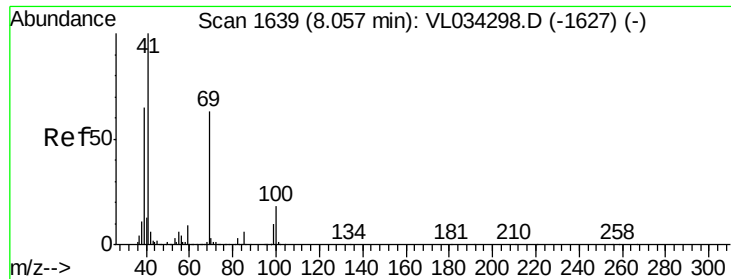
Delta R.T. 0.01 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100		87812		
85	54.5	51.8	77.6		
127	8.8	7.0	10.6		





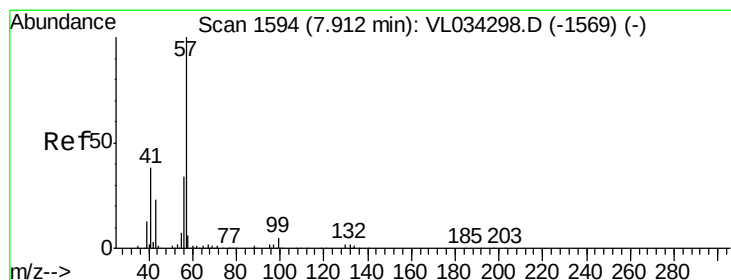
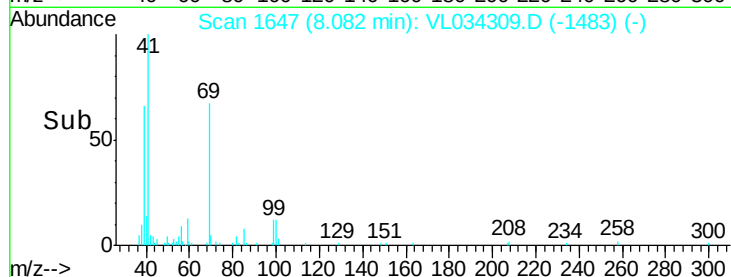
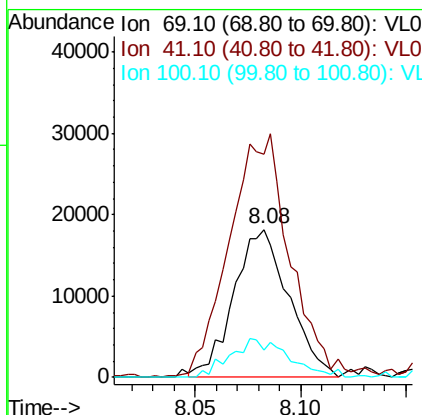
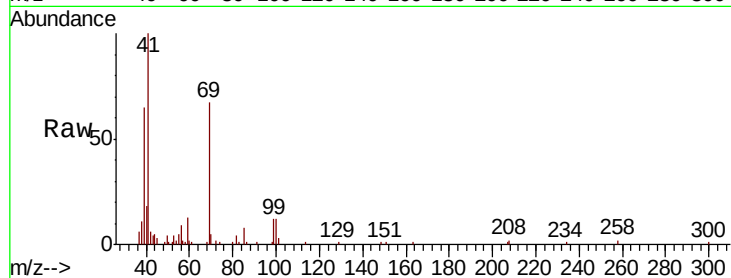
#43
Methyl Methacrylate
Concen: 0.401 ppbv
RT: 8.08 min Scan# 1647
Delta R.T. 0.03 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
69	100		
41	182.9	132.1	198.1
100	27.7	23.2	34.8

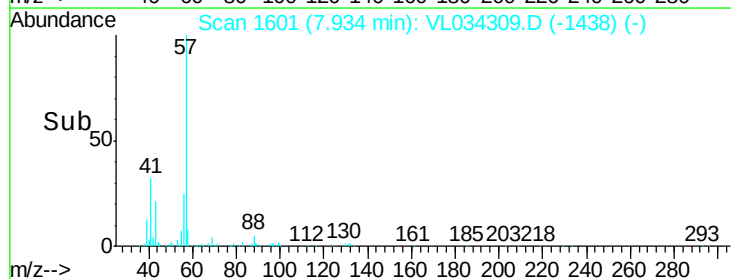
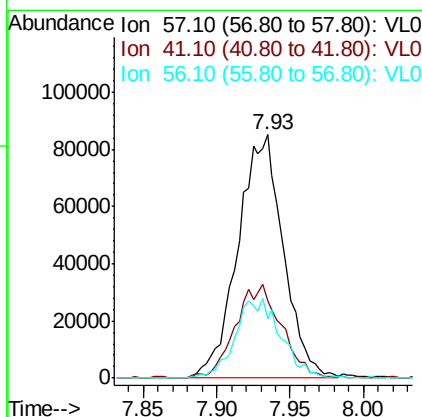
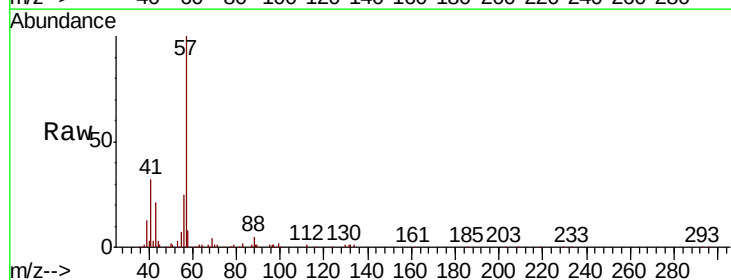
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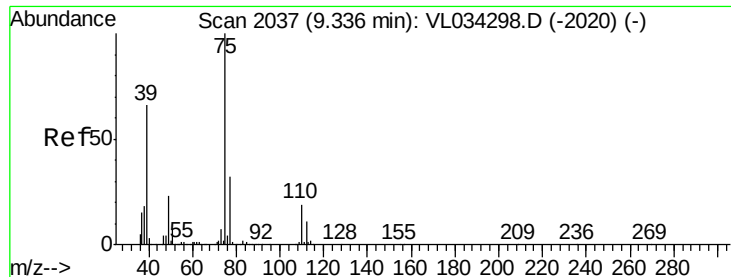
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#44
2,2,4-Trimethylpentane
Concen: 0.499 ppbv m
RT: 7.93 min Scan# 1601
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

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





#45

t-1,3-Dichloropropene

Concen: 0.330 ppbv m

RT: 9.35 min Scan# 2041

Delta R.T. 0.01 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion: 75 Resp: 33059

Ion Ratio Lower Upper

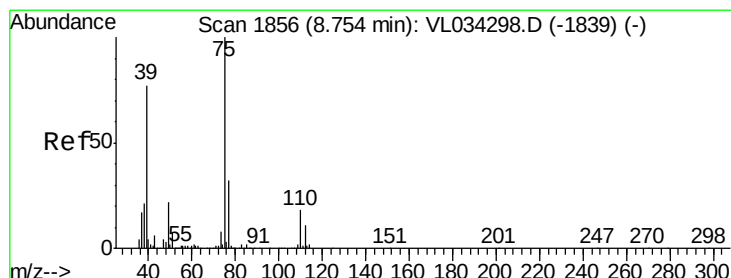
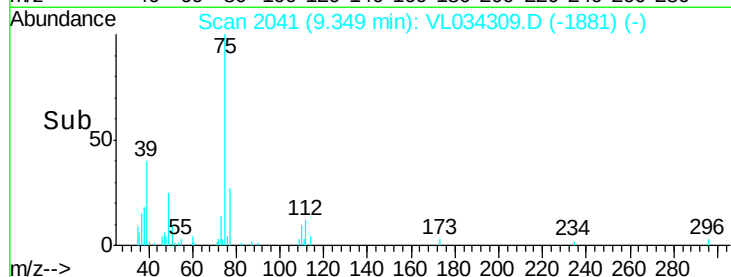
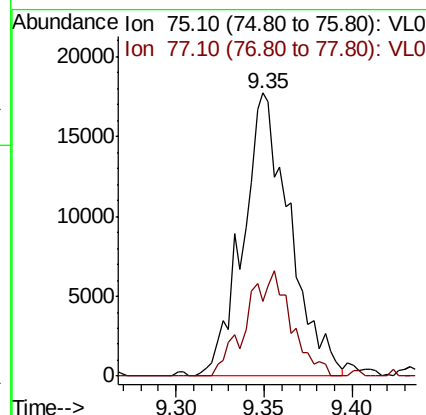
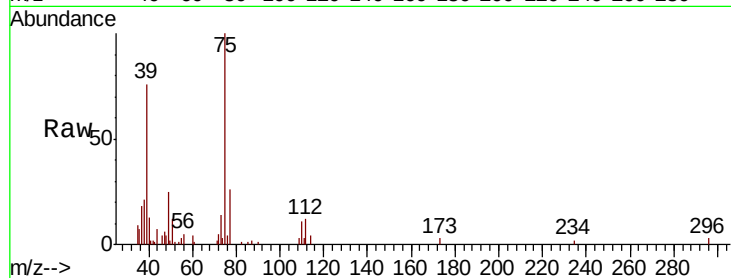
75 100

77 26.3 25.6 38.4

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#46

cis-1,3-Dichloropropene

Concen: 0.397 ppbv

RT: 8.78 min Scan# 1863

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

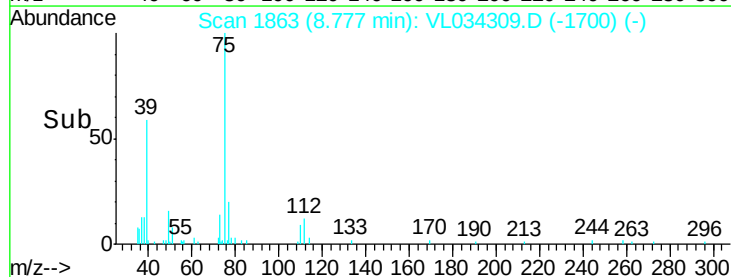
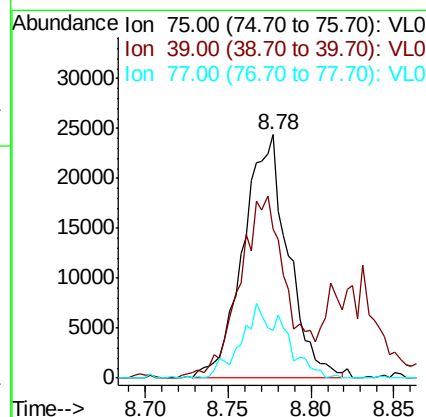
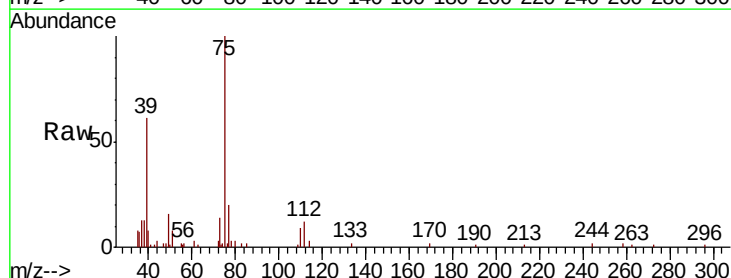
Tgt Ion: 75 Resp: 45759

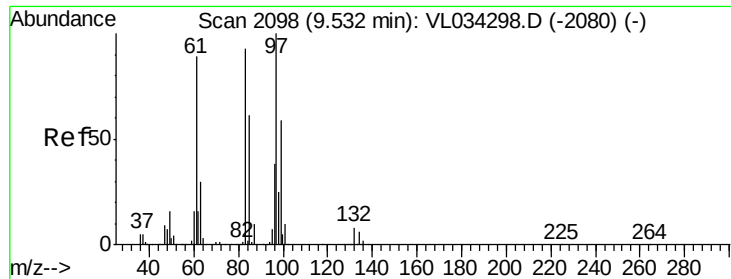
Ion Ratio Lower Upper

75 100

39 58.9 61.2 91.8#

77 19.9 25.9 38.9#





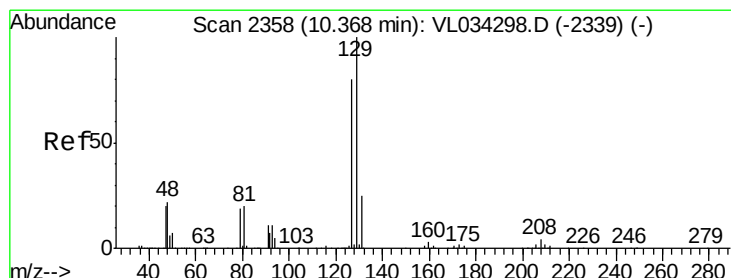
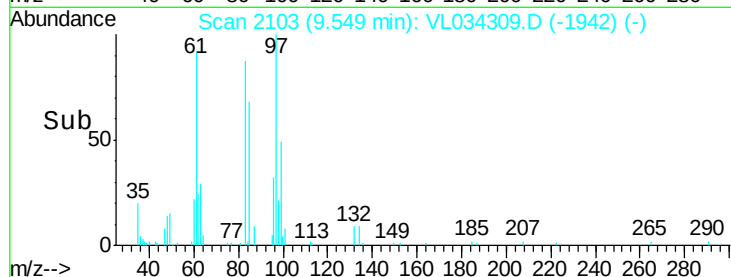
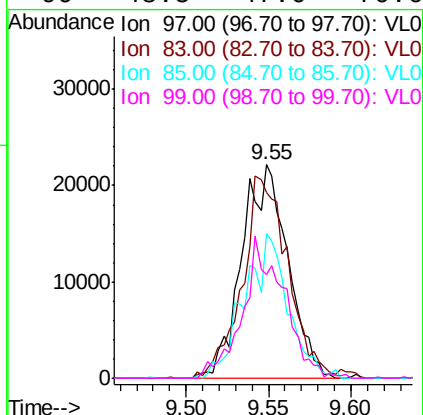
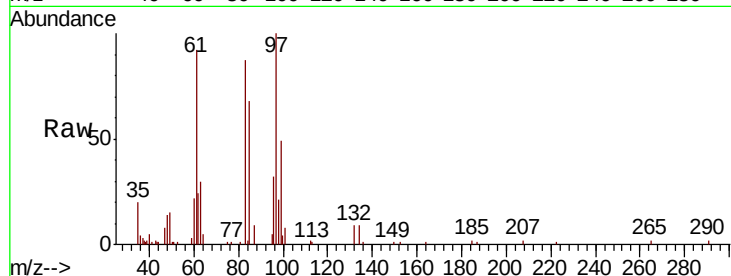
#47
 1,1,2-Trichloroethane
 Concen: 0.496 ppbv m
 RT: 9.55 min Scan# 2103
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
97	100		
83	86.8	74.2	111.2
85	67.9	48.6	73.0
99	48.5	47.0	70.6

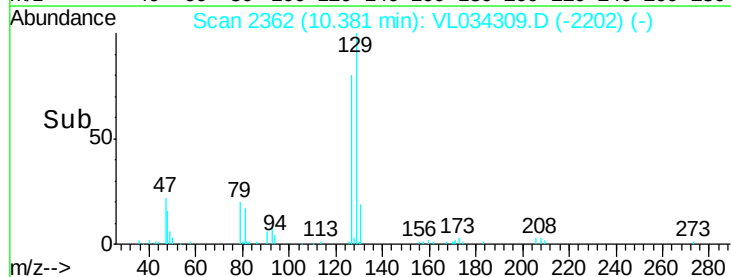
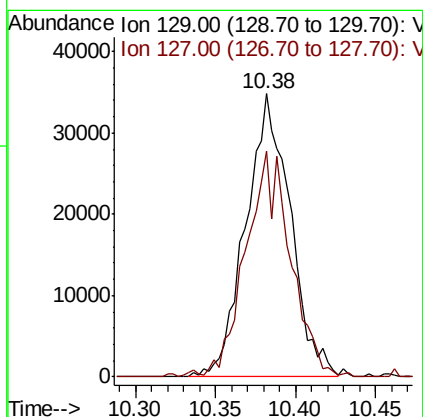
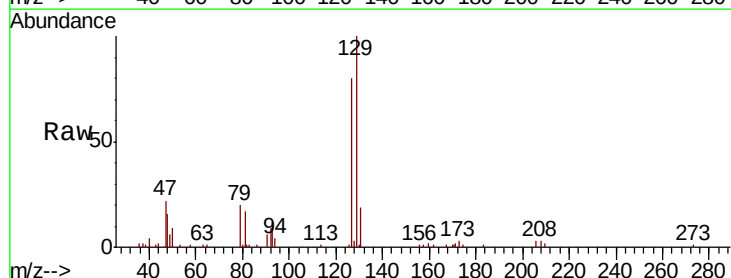
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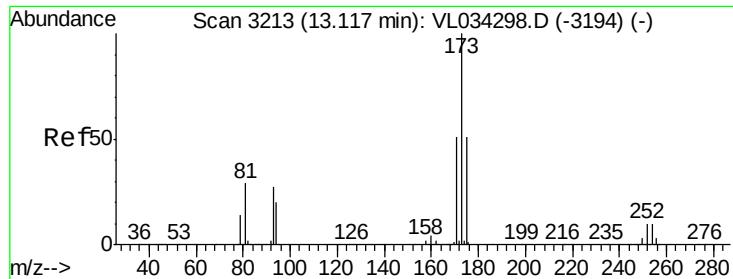
MMDadoda
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#48
 Dibromochloromethane
 Concen: 0.466 ppbv
 RT: 10.38 min Scan# 2362
 Delta R.T. 0.01 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
129	100		
127	80.8	39.7	119.1





#49

Bromoform

Concen: 0.417 ppbv m

RT: 13.13 min Scan# 3218

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

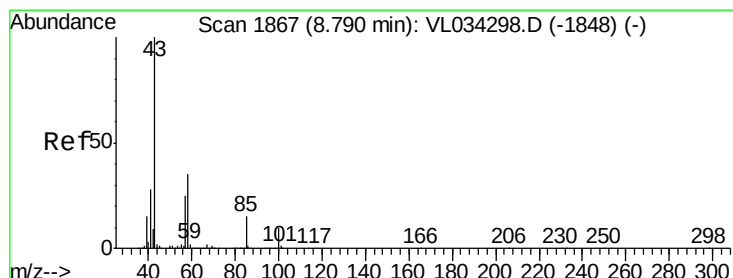
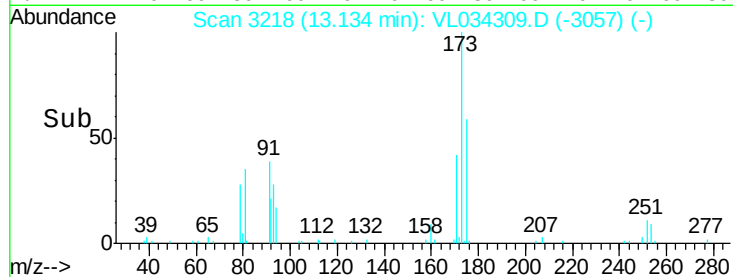
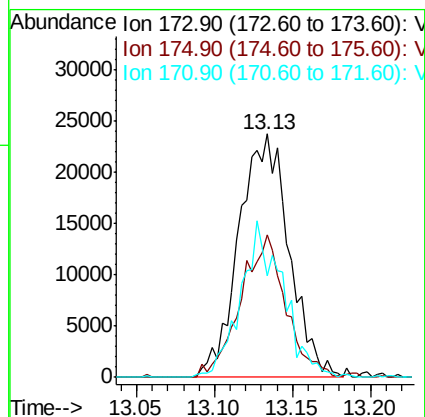
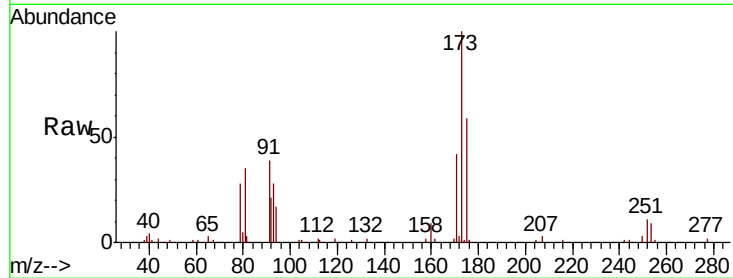
ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion:	173	Resp:	52591
Ion Ratio	Lower	Upper	
173	100		
175	53.5	39.8	59.6
171	0.0	41.8	62.6#

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#50

4-Methyl-2-Pentanone

Concen: 0.455 ppbv

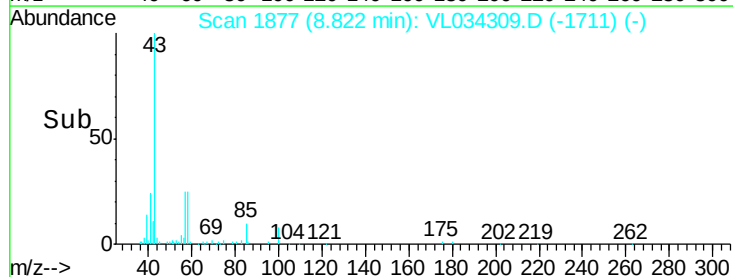
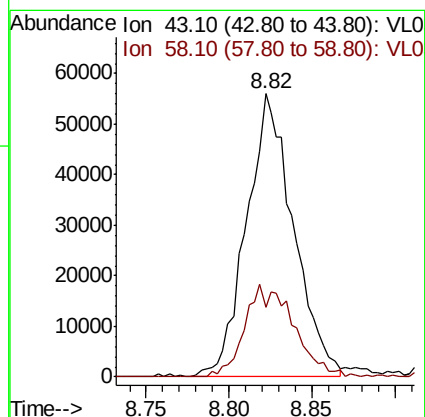
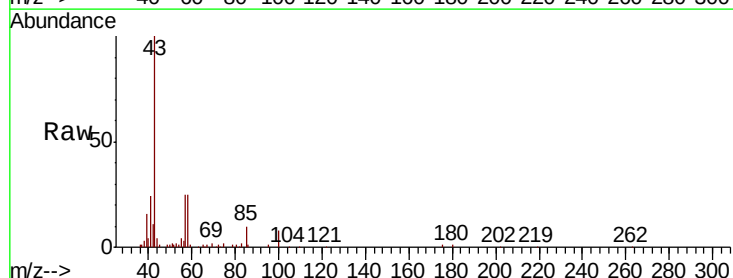
RT: 8.82 min Scan# 1877

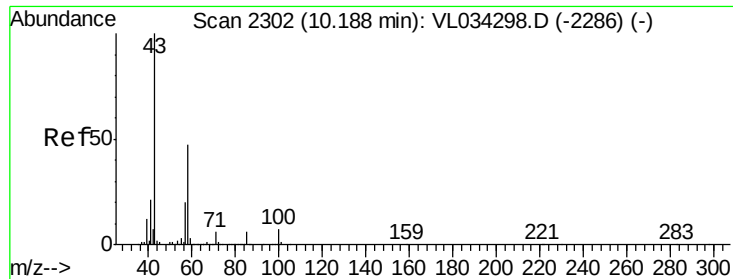
Delta R.T. 0.03 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion:	43	Resp:	110530
Ion Ratio	Lower	Upper	
43	100		
58	34.1	27.6	41.4





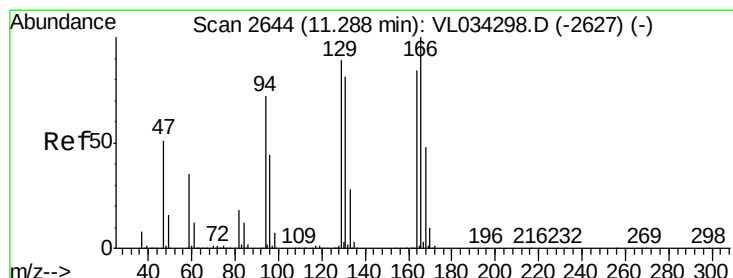
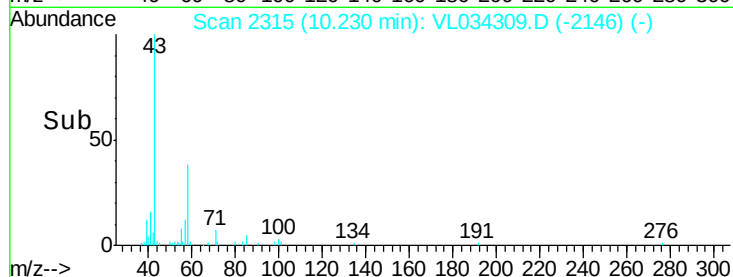
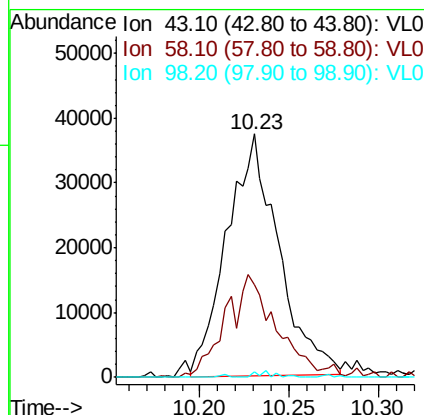
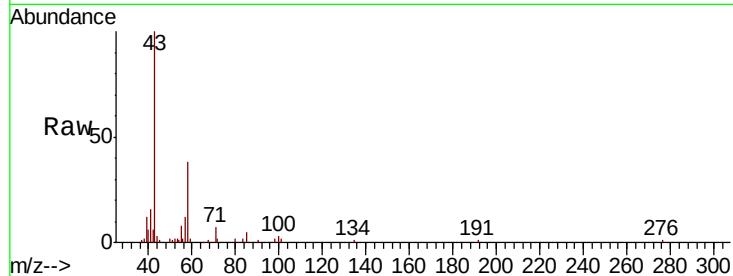
#51
2-Hexanone
Concen: 0.380 ppbv
RT: 10.23 min Scan# 2315
Delta R.T. 0.04 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.2	37.0	55.6
98	0.8	0.2	0.2#

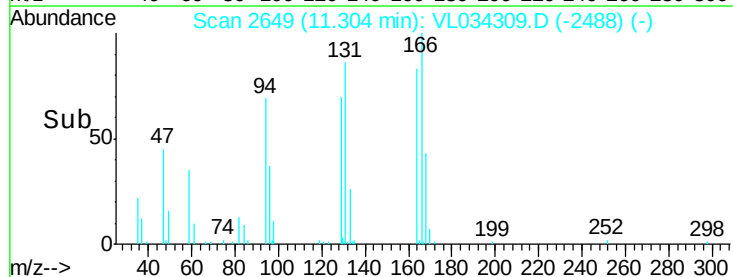
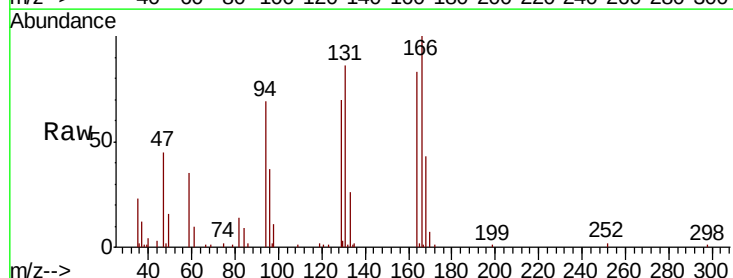
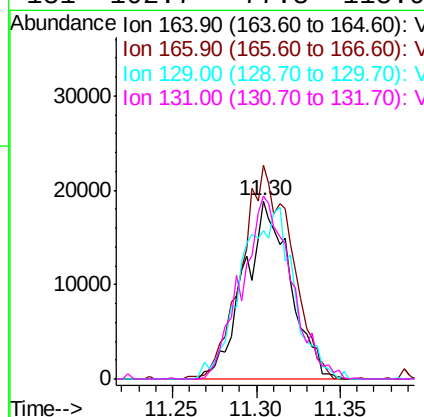
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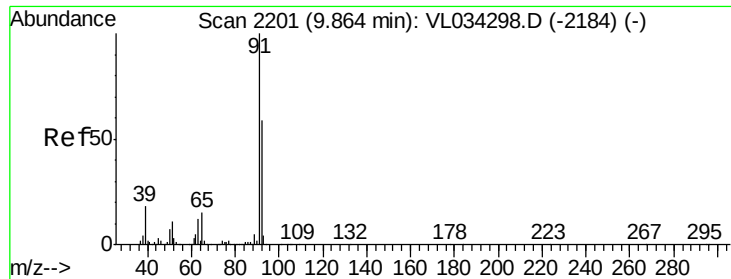
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#52
Tetrachloroethene
Concen: 0.467 ppbv m
RT: 11.30 min Scan# 2649
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
164	100		
166	120.0	95.3	142.9
129	83.5	84.5	126.7#
131	102.7	77.3	115.9





#53

Toluene

Concen: 0.408 ppbv

RT: 9.88 min Scan# 2206

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion: 91 Resp: 89611

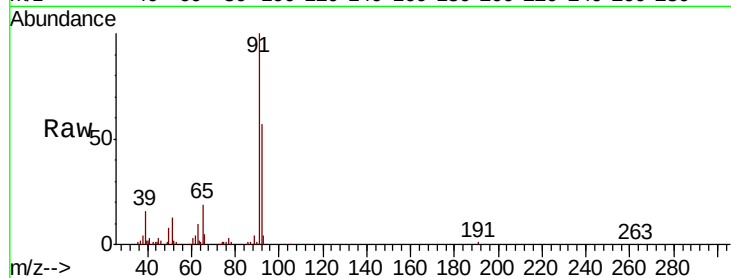
Ion Ratio Lower Upper

91 100

92 60.1 48.4 72.6

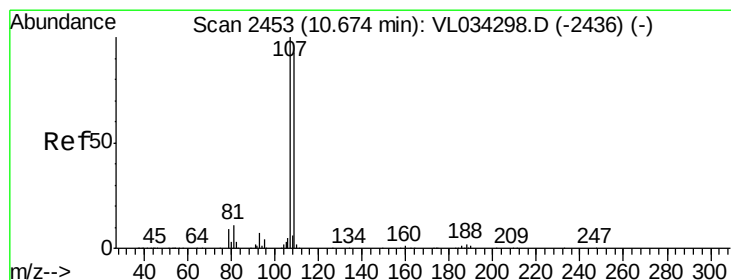
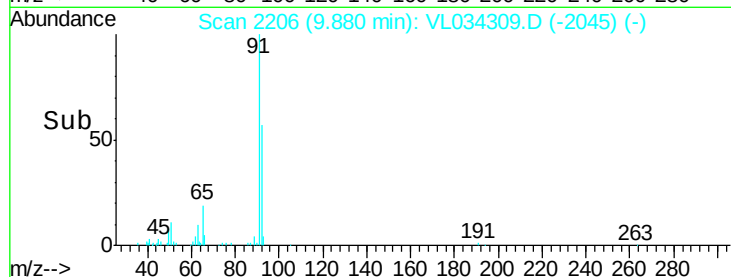
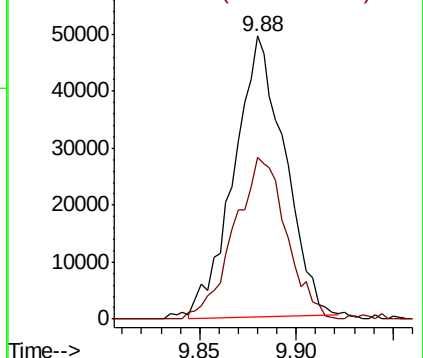
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.456 ppbv

RT: 10.69 min Scan# 2458

Delta R.T. 0.02 min

Lab File: VL034309.D

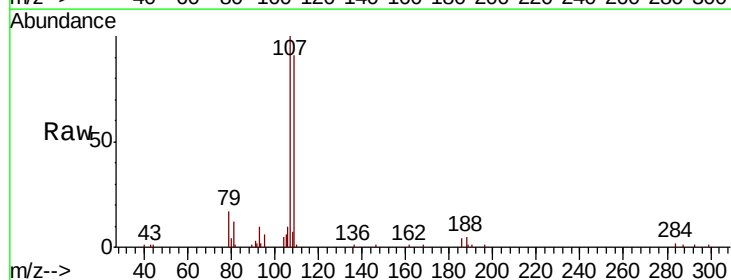
Acq: 16 Oct 2019 22:44

Tgt Ion: 107 Resp: 58604

Ion Ratio Lower Upper

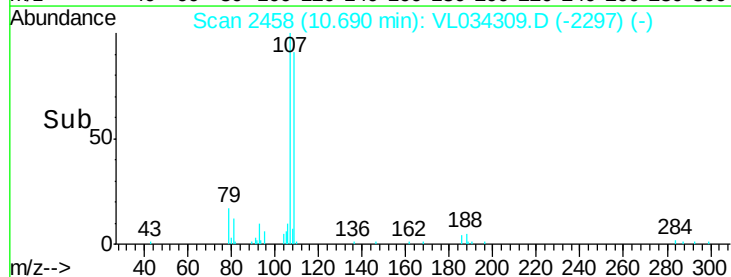
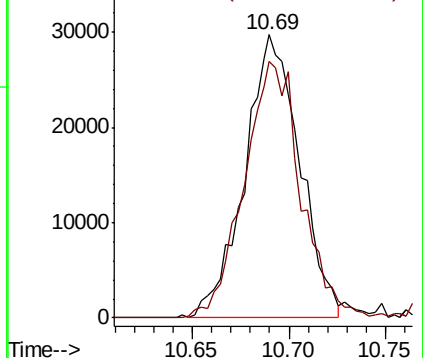
107 100

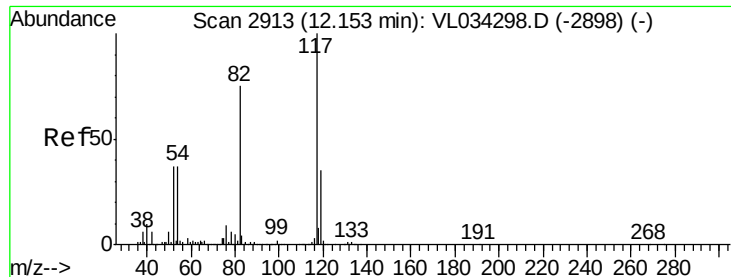
109 90.0 74.6 112.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





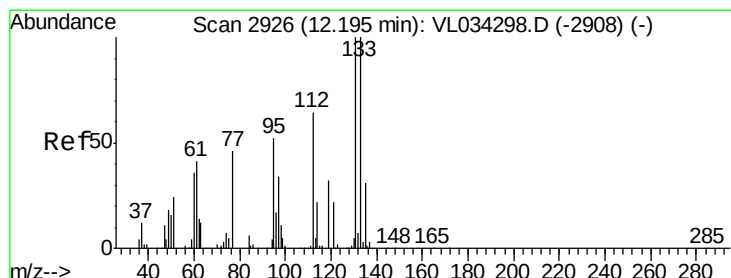
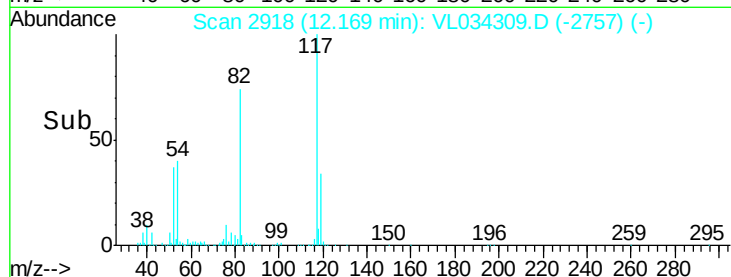
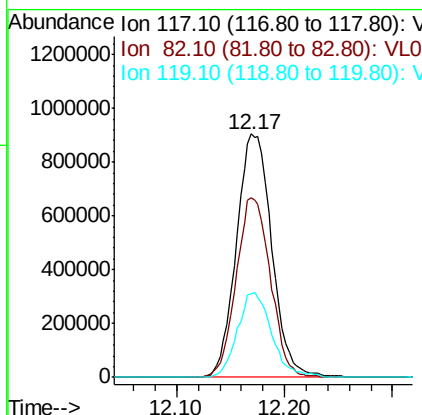
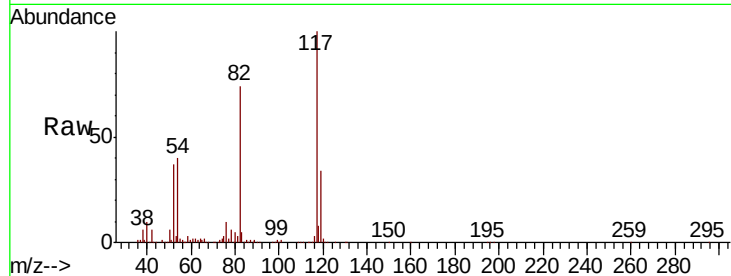
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2918
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.8	55.5	83.3
119	34.0	26.5	39.7

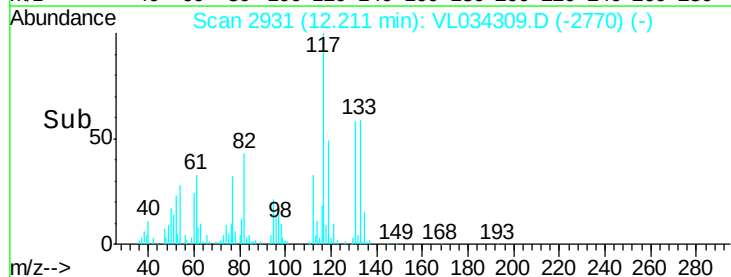
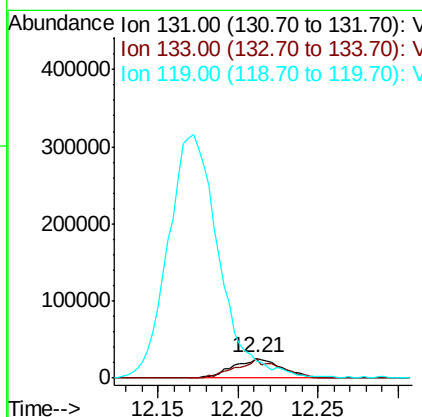
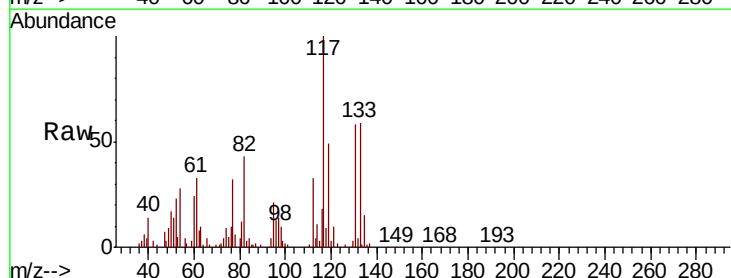
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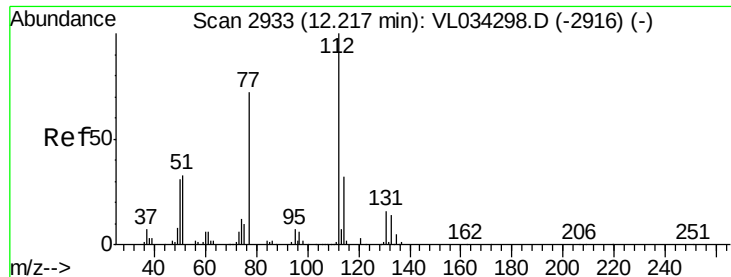
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.551 ppbv
RT: 12.21 min Scan# 2931
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
131	100		
133	88.4	77.1	115.7
119	1340.9	49.0	73.4#





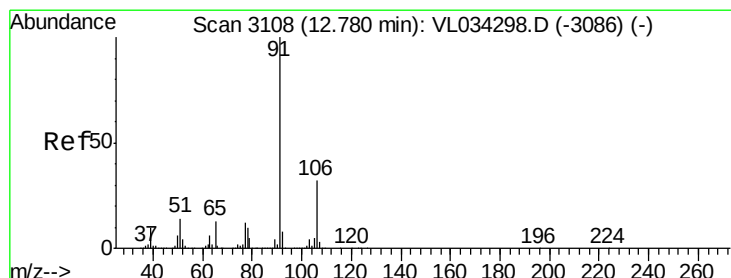
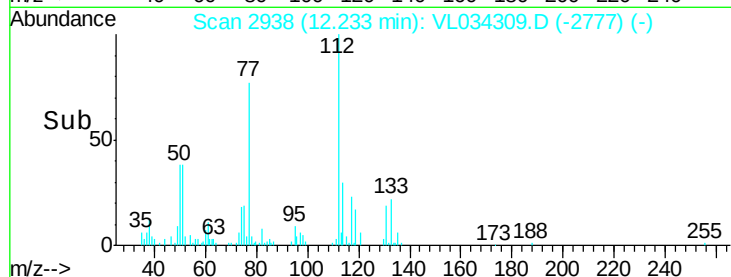
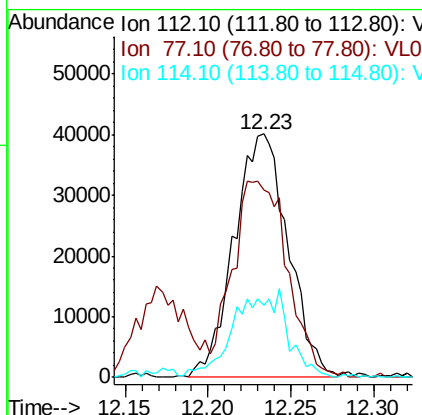
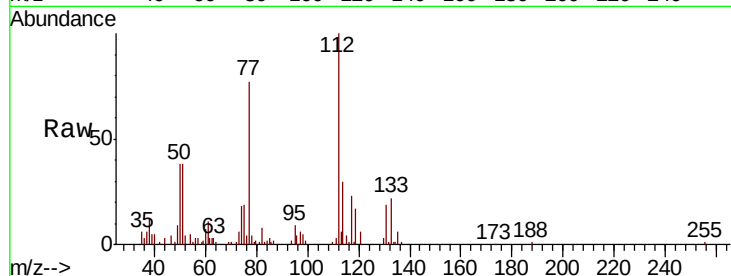
#57
Chlorobenzene
Concen: 0.527 ppbv
RT: 12.23 min Scan# 2938
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
112	100		
77	76.2	58.6	88.0
114	29.9	28.6	35.0

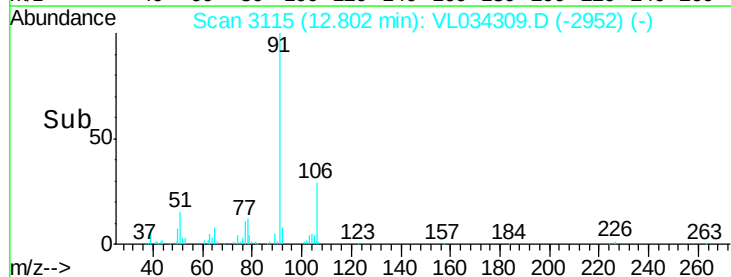
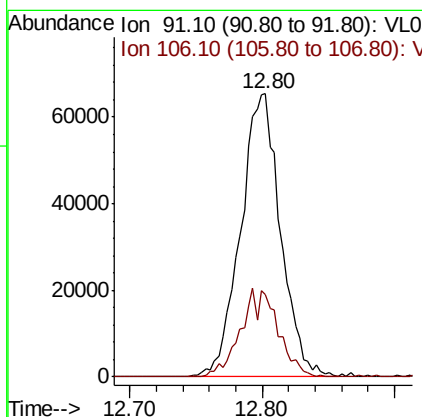
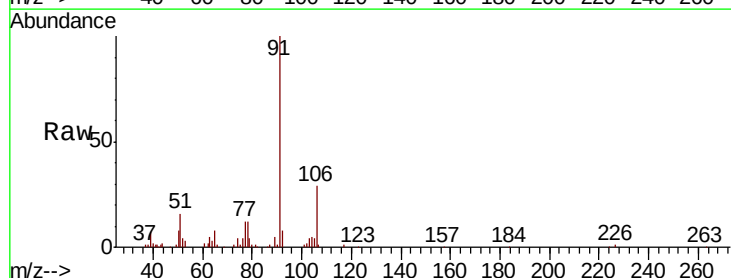
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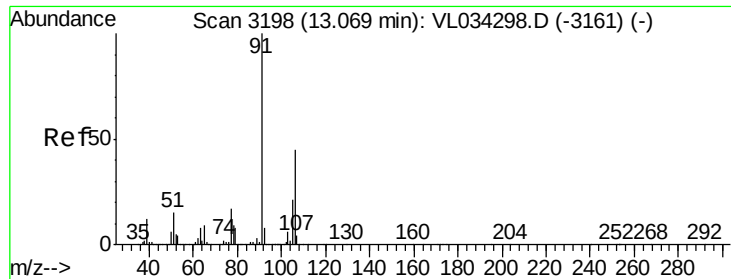
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#58
Ethyl Benzene
Concen: 0.474 ppbv
RT: 12.80 min Scan# 3115
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
91	100		
106	29.2	25.3	37.9





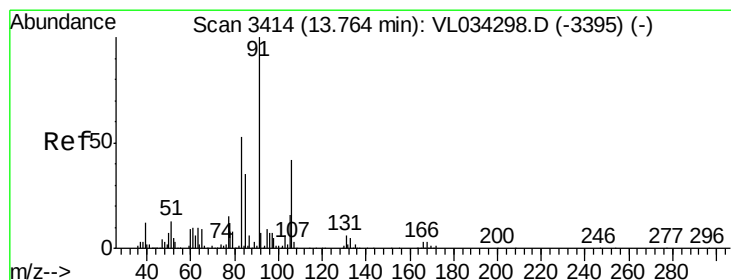
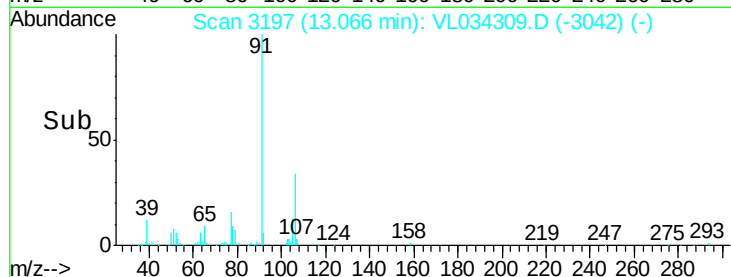
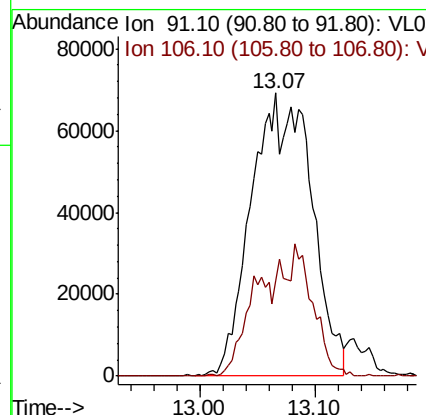
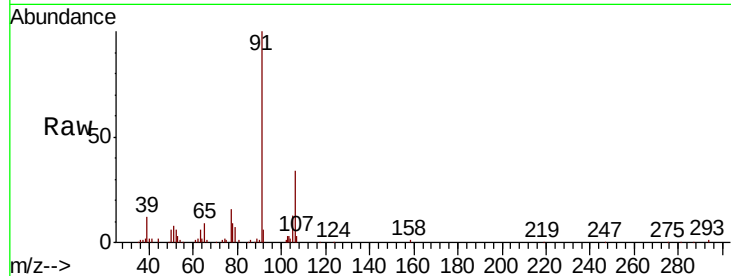
#59
m/p-Xylene
Concen: 1.003 ppbv m
RT: 13.07 min Scan# 3197
Delta R.T. -0.00 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Instrument :
MSVOA_L
ClientSampleId :
LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
91	100		
106	40.6	35.4	53.2

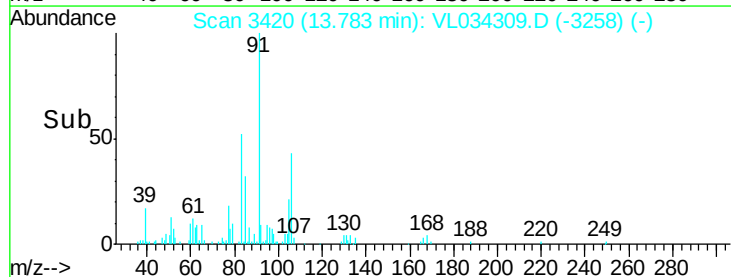
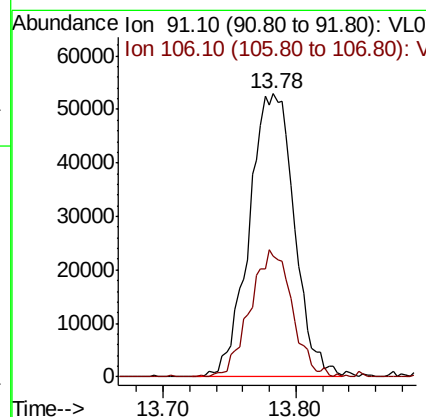
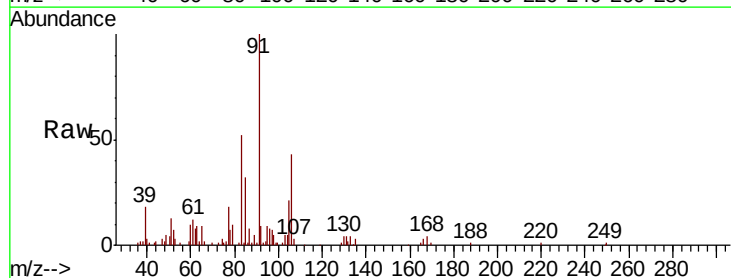
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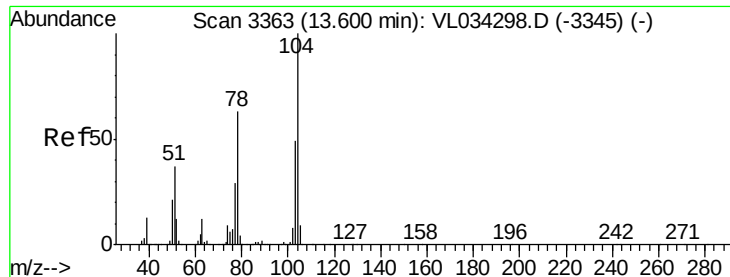
MMDadoda
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#60
o-Xylene
Concen: 0.500 ppbv m
RT: 13.78 min Scan# 3420
Delta R.T. 0.02 min
Lab File: VL034309.D
Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.2	21.6	64.6





#61

Stvrene

Concen: 0.408 ppbv m

RT: 13.62 min Scan# 3370

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

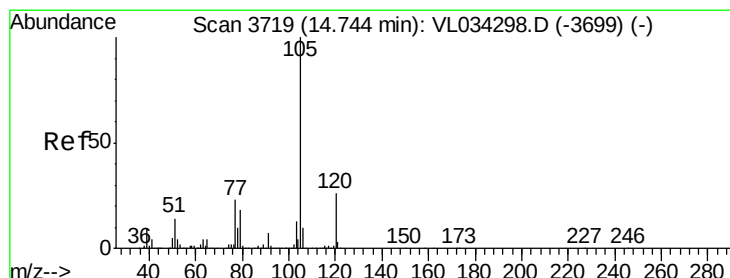
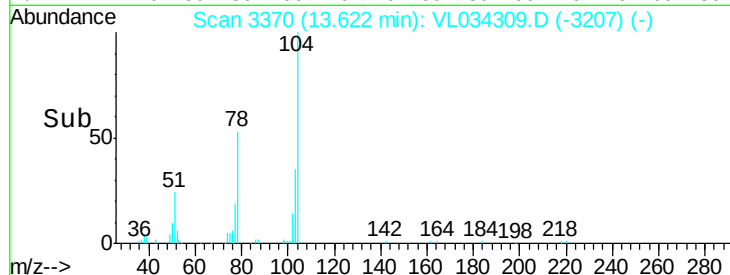
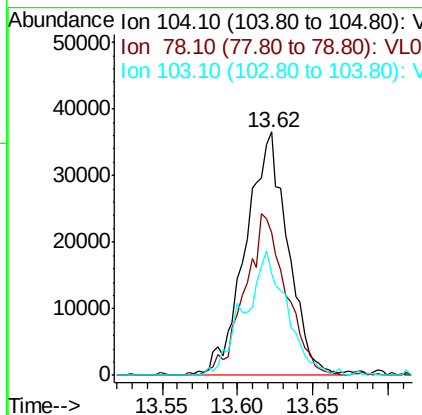
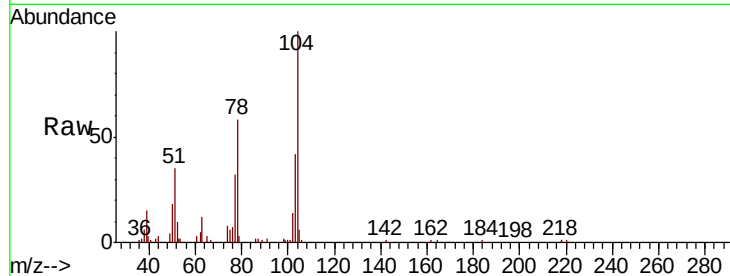
ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion:	104	Resp:	71529
Ion Ratio	Lower	Upper	
104	100		
78	65.7	47.8	71.8
103	51.4	39.0	58.6

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.503 ppbv m

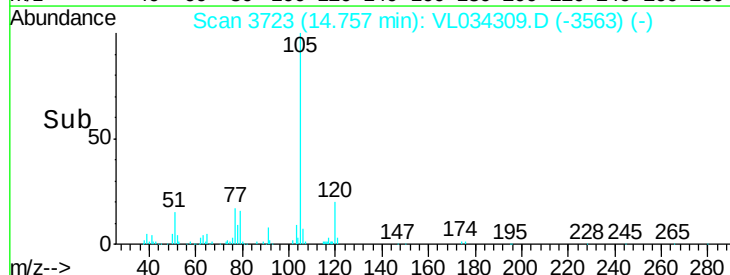
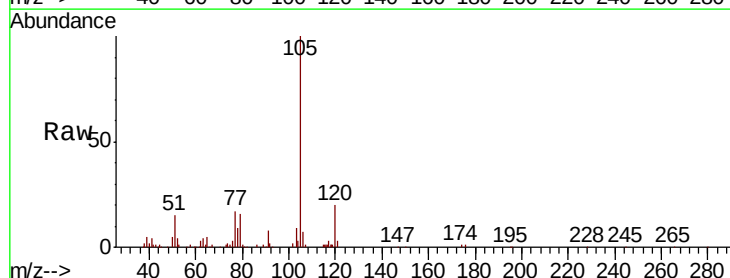
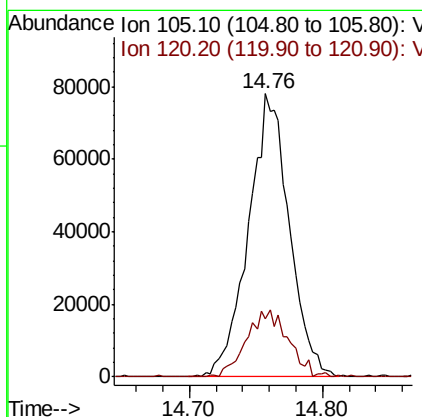
RT: 14.76 min Scan# 3723

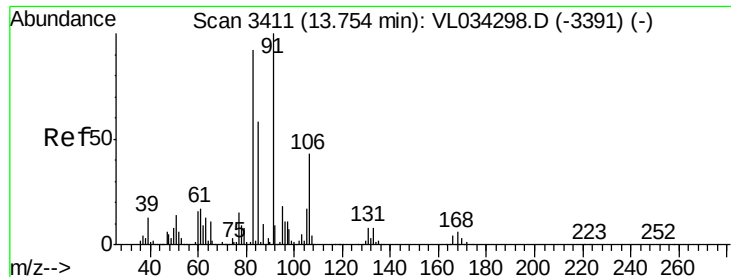
Delta R.T. 0.01 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion:	105	Resp:	165464
Ion Ratio	Lower	Upper	
105	100		
120	24.2	20.8	31.2





#63

1,1,2,2-Tetrachloroethane

Concen: 0.522 ppbv m

RT: 13.77 min Scan# 3417

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

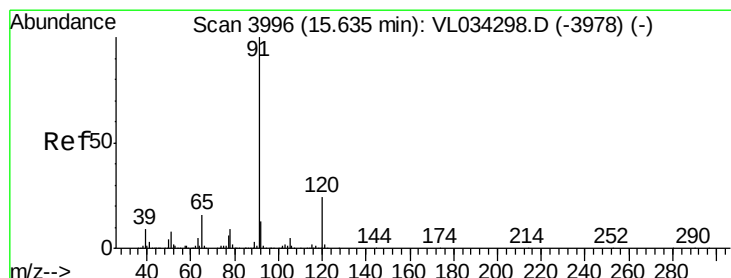
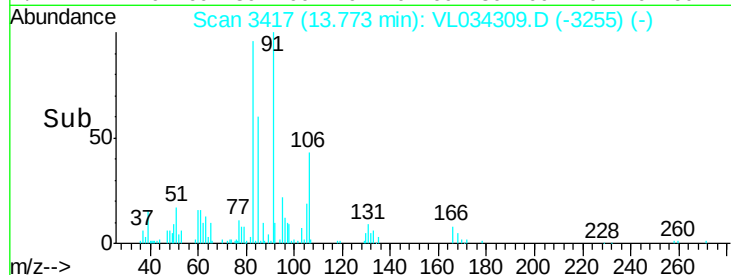
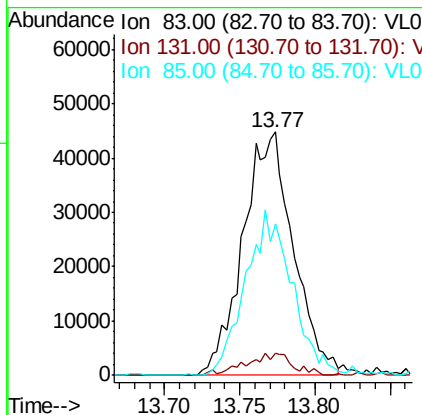
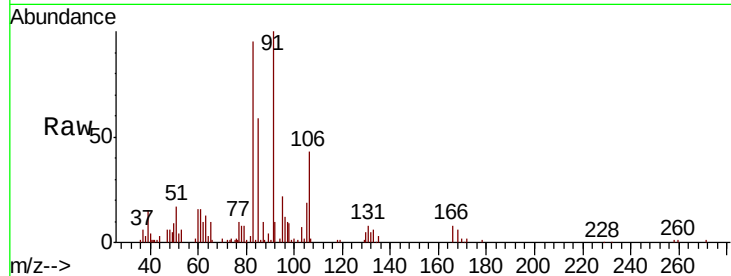
ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion:	83	Resp:	104592
Ion Ratio	Lower	Upper	
83	100		
131	8.4	4.8	14.4
85	63.6	32.5	97.4

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#64

n-propylbenzene

Concen: 0.493 ppbv m

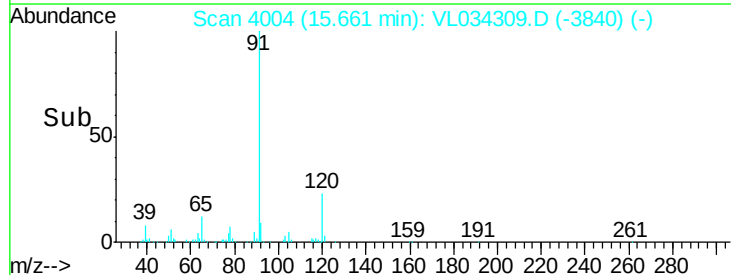
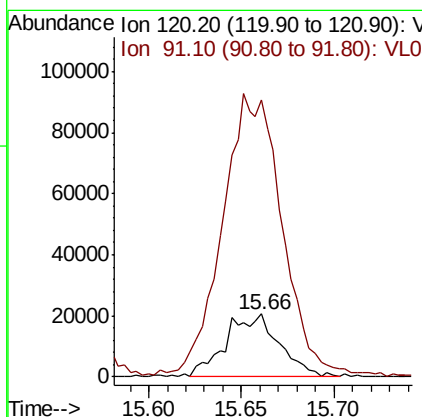
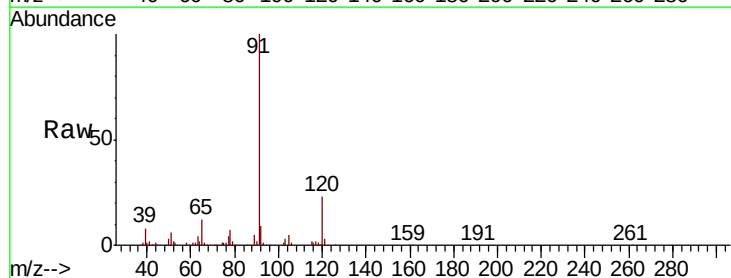
RT: 15.66 min Scan# 4004

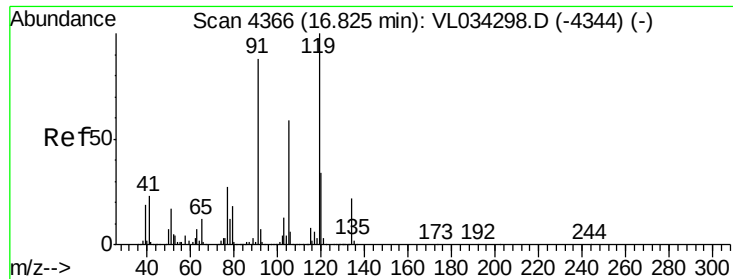
Delta R.T. 0.03 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion:	120	Resp:	41646
Ion Ratio	Lower	Upper	
120	100		
91	0.0	374.9	562.3#





#65

tert-Butylbenzene

Concen: 0.487 ppbv m

RT: 16.84 min Scan# 4371

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion: 119 Resp: 142065

Ion Ratio Lower Upper

119 100

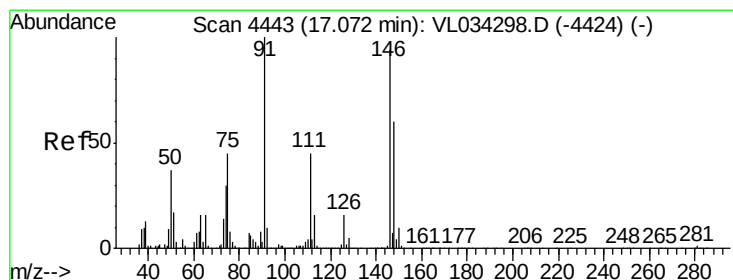
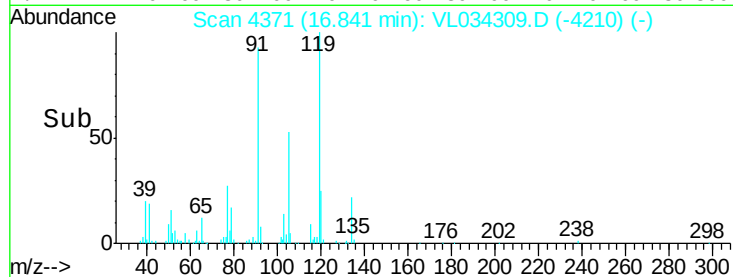
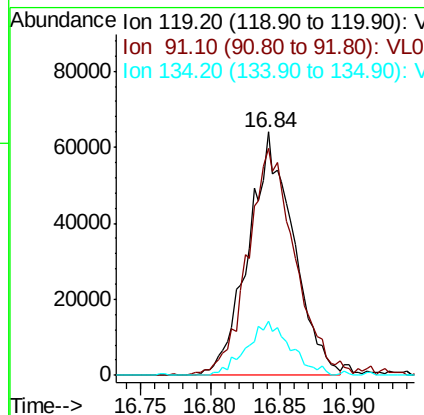
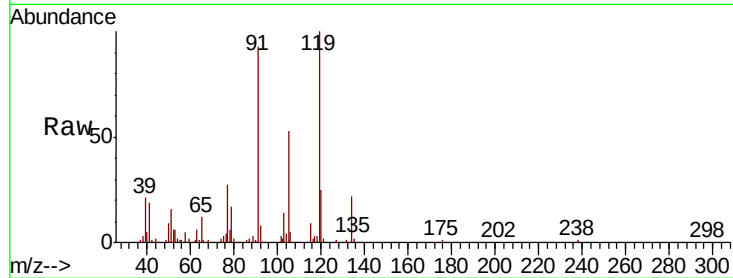
91 0.0 71.4 107.0#

134 0.0 15.9 23.9#

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#66

Benzyl Chloride

Concen: 0.347 ppbv m

RT: 17.09 min Scan# 4449

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

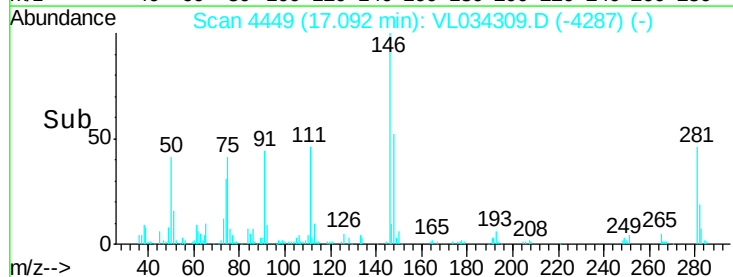
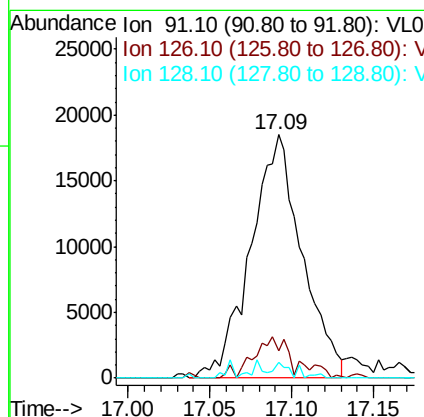
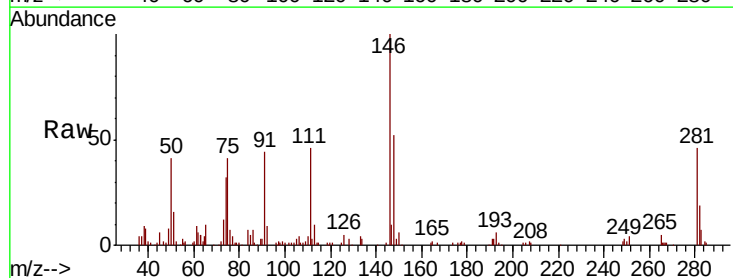
Tgt Ion: 91 Resp: 39982

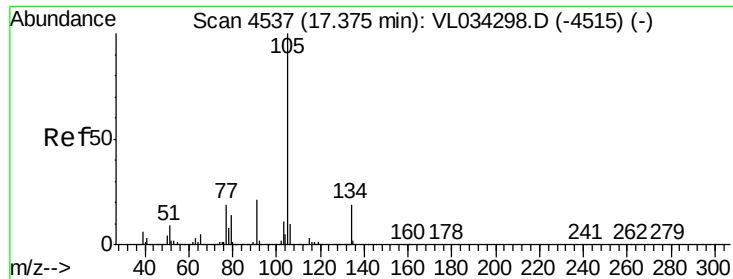
Ion Ratio Lower Upper

91 100

126 13.6 12.9 19.3

128 3.9 4.3 6.5#





#67

sec-Butylbenzene

Concen: 0.508 ppbv

RT: 17.39 min Scan# 4542

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion: 105 Resp: 208455

Ion Ratio Lower Upper

105 100

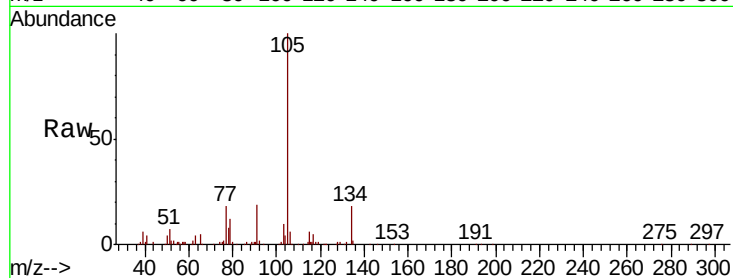
134 17.0 15.4 23.0

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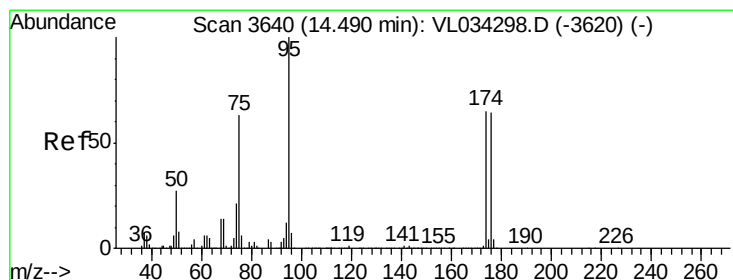
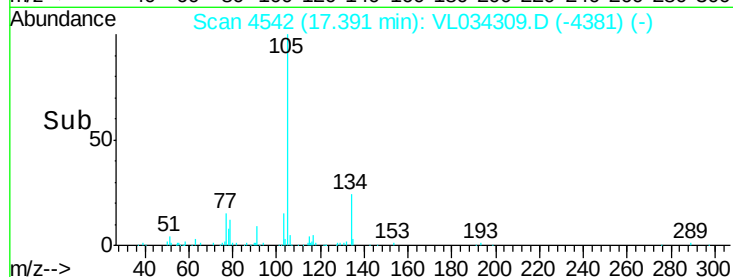
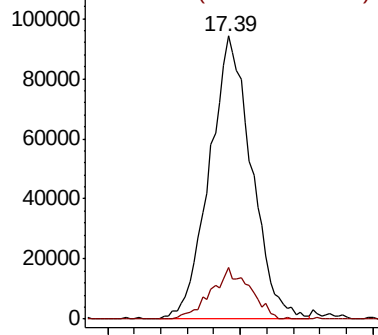
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.336 ppbv

RT: 14.51 min Scan# 3646

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

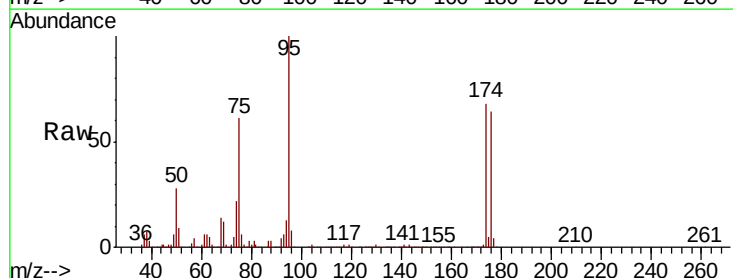
Tgt Ion: 95 Resp: 1808208

Ion Ratio Lower Upper

95 100

174 64.8 52.6 78.8

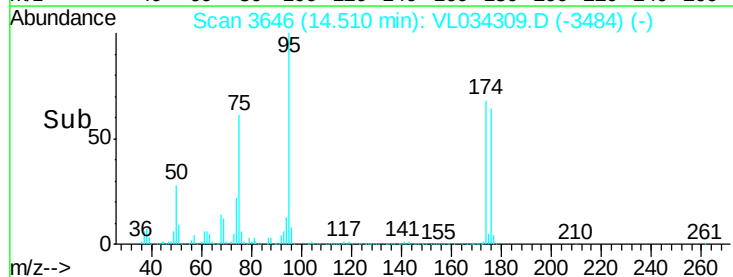
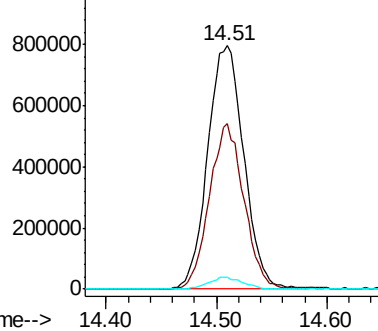
175 4.7 3.8 5.6

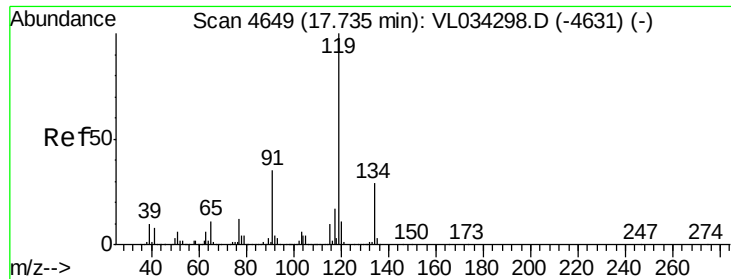


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





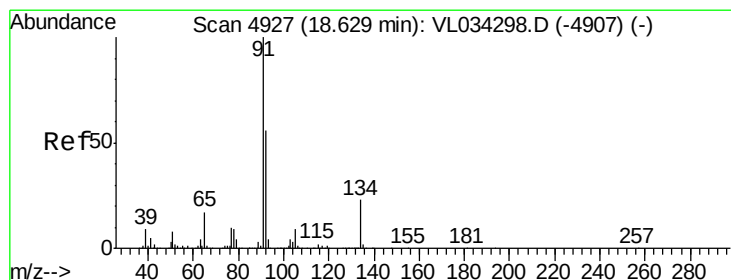
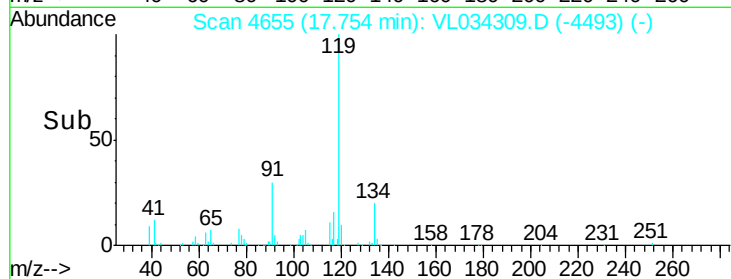
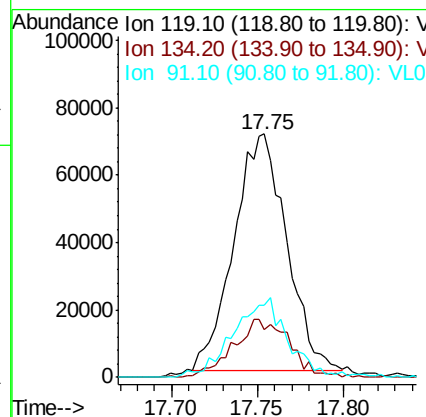
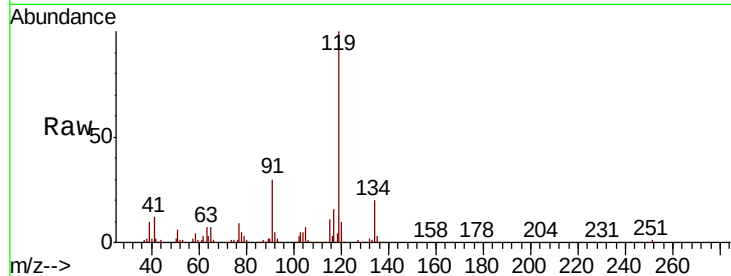
#69
 p-Isopropyltoluene
 Concen: 0.444 ppbv
 RT: 17.75 min Scan# 4655
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	148554		
134	26.5	21.3	31.9	
91	35.3	26.6	39.8	

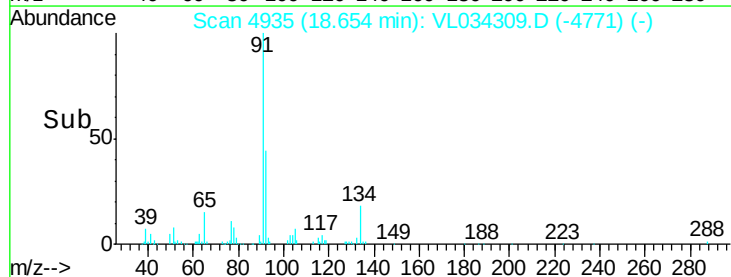
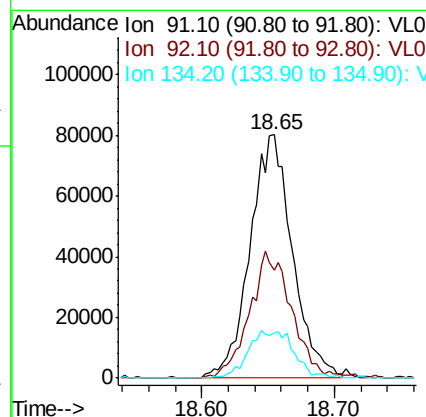
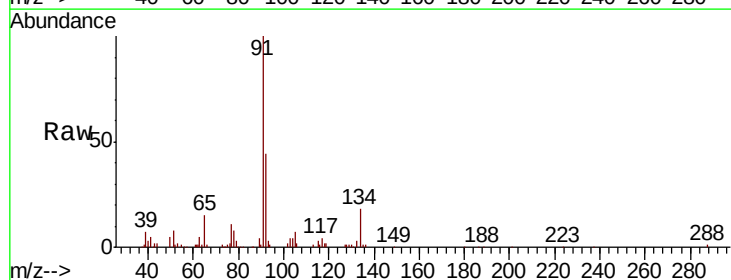
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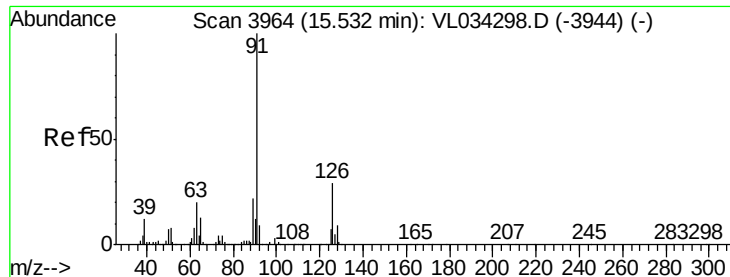
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#70
 n-Butylbenzene
 Concen: 0.490 ppbv
 RT: 18.65 min Scan# 4935
 Delta R.T. 0.03 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	178262		
92	52.1	44.5	66.7	
134	21.1	18.2	27.2	





#71

2-Chlorotoluene

Concen: 0.486 ppbv m

RT: 15.55 min Scan# 3970

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion: 91 Resp: 123836

Ion Ratio Lower Upper

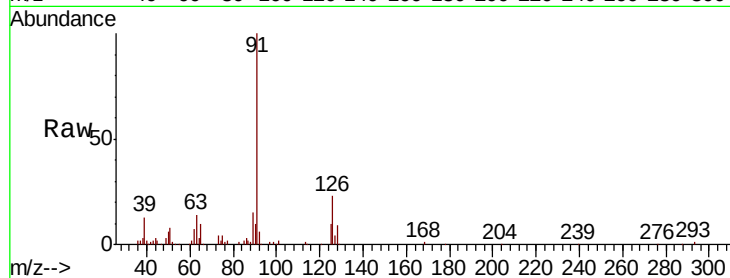
91 100

126 26.9 11.9 47.5

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

100000

80000

60000

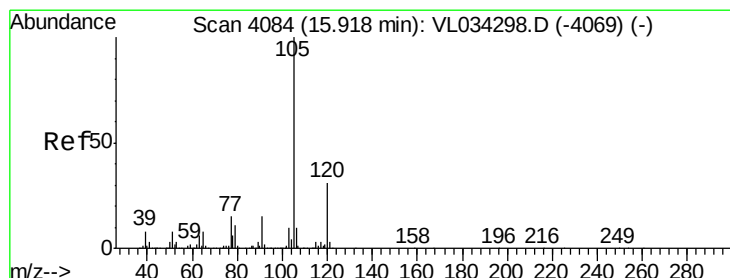
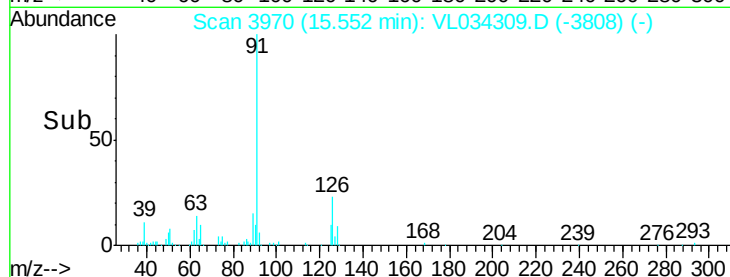
40000

20000

0

15.45 15.50 15.55 15.60

Time-->



#72

4-Ethyltoluene

Concen: 0.466 ppbv

RT: 15.93 min Scan# 4089

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion: 105 Resp: 130404

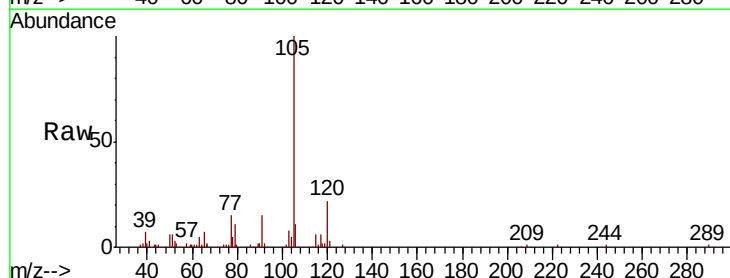
Ion Ratio Lower Upper

105 100

120 29.1 23.8 35.8

91 16.6 11.2 16.8

77 17.2 12.8 19.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

100000

80000

60000

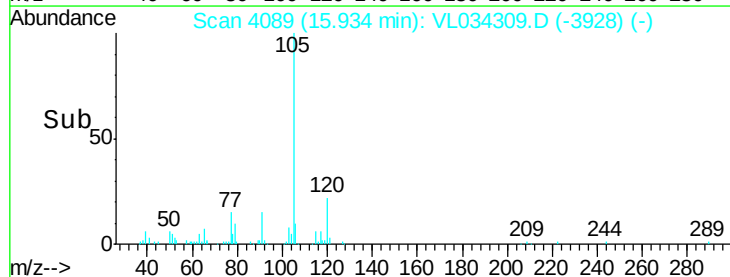
40000

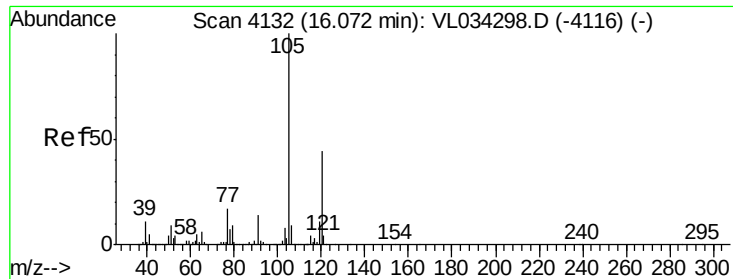
20000

0

15.85 15.90 15.95 16.00

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 0.479 ppbv m

RT: 16.09 min Scan# 4139

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion:105 Resp: 133027

Ion Ratio Lower Upper

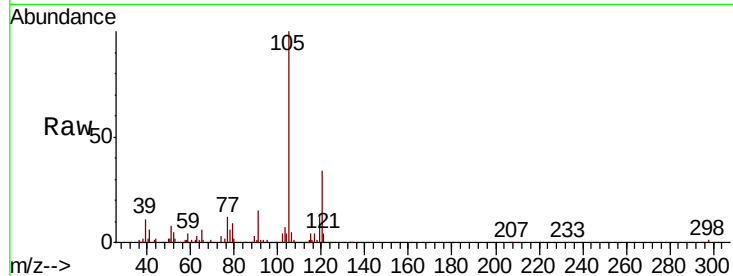
105 100

120 34.1 35.2 52.8#

Manual Integrations
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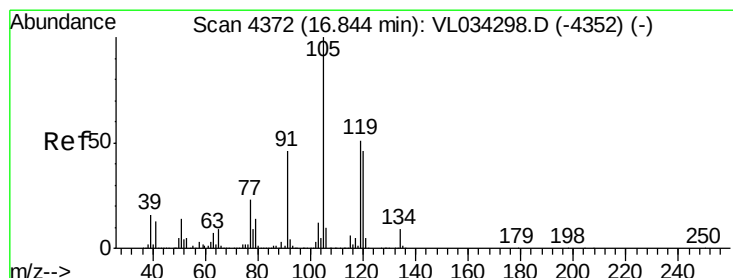
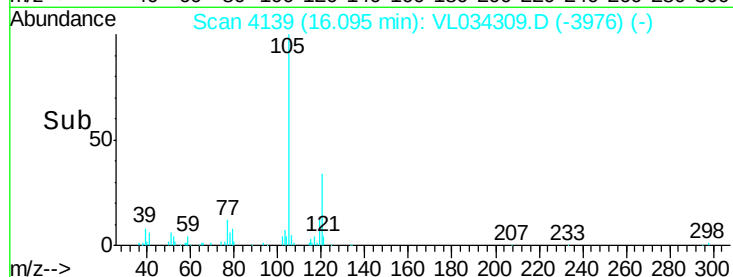
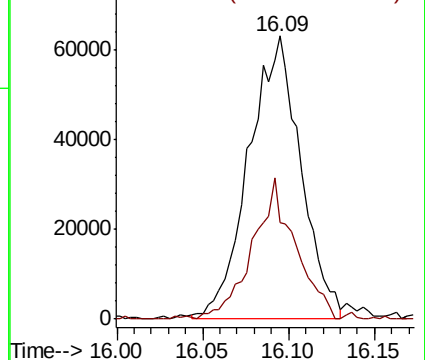
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.494 ppbv

RT: 16.86 min Scan# 4377

Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion:105 Resp: 142803

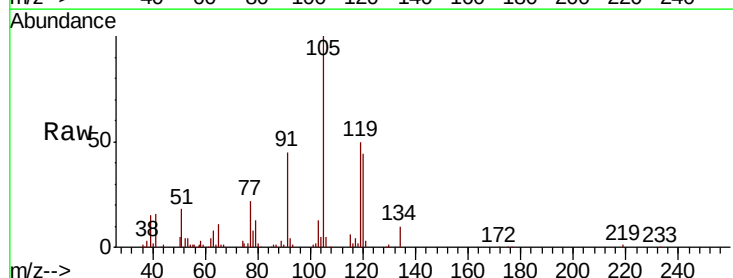
Ion Ratio Lower Upper

105 100

120 45.0 37.0 55.6

91 42.0 38.2 57.2

77 20.3 19.0 28.4

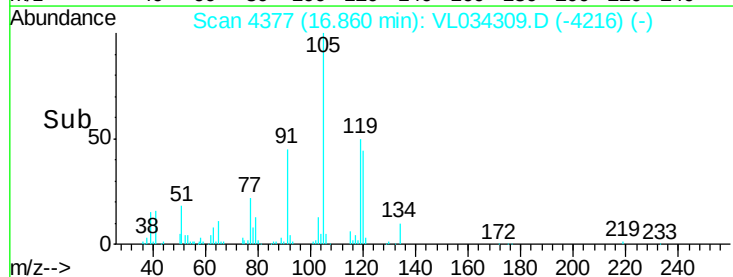
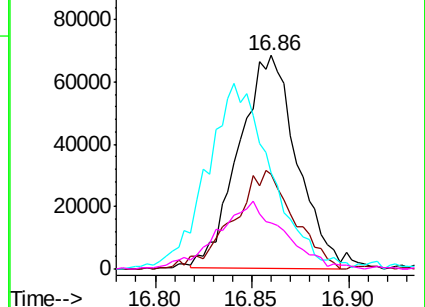


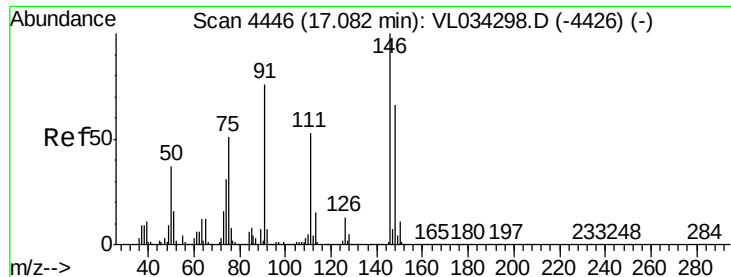
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





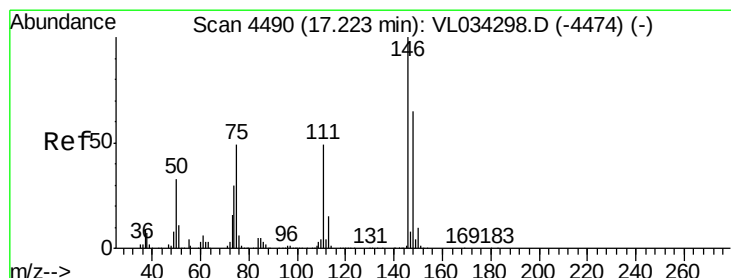
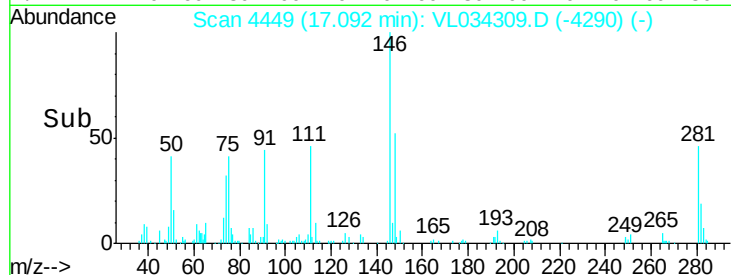
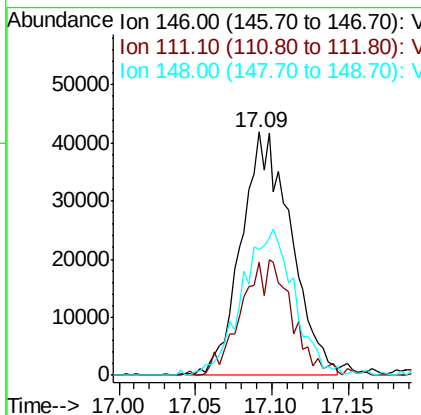
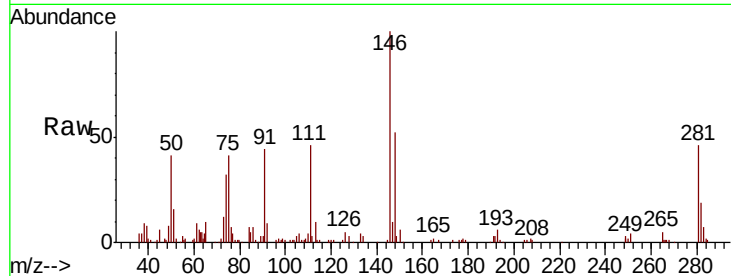
#75
 1,3-Dichlorobenzene
 Concen: 0.546 ppbv
 RT: 17.09 min Scan# 4449
 Delta R.T. 0.01 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	49.0	24.5	73.5
148	63.7	32.3	96.8

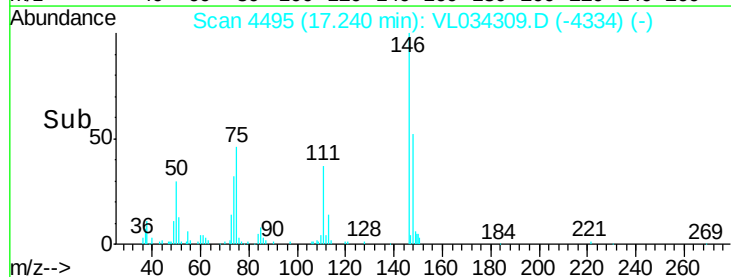
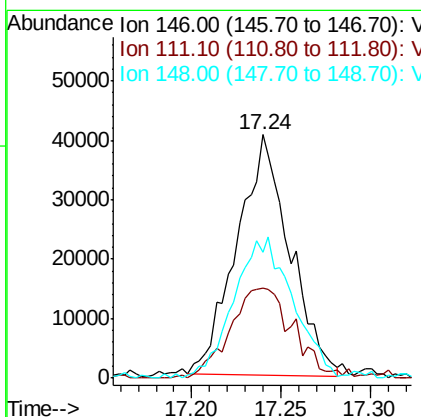
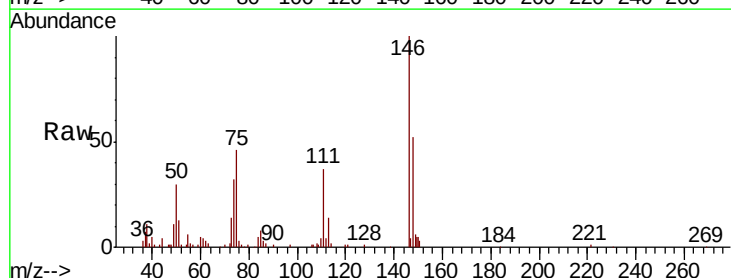
Manual Integrations
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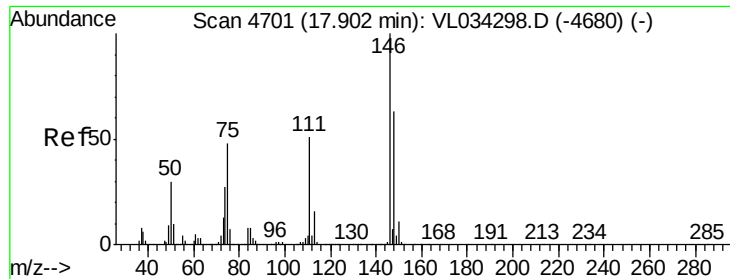
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#76
 1,4-Dichlorobenzene
 Concen: 0.493 ppbv
 RT: 17.24 min Scan# 4495
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.9	23.9	71.7
148	66.9	33.1	99.2





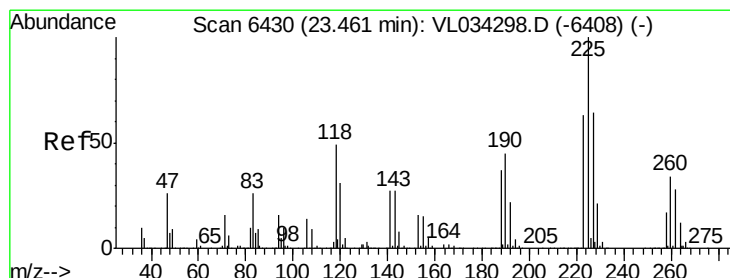
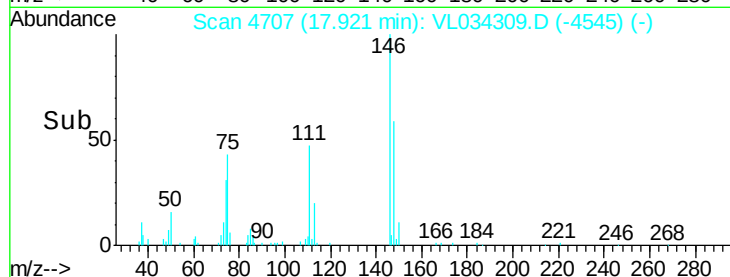
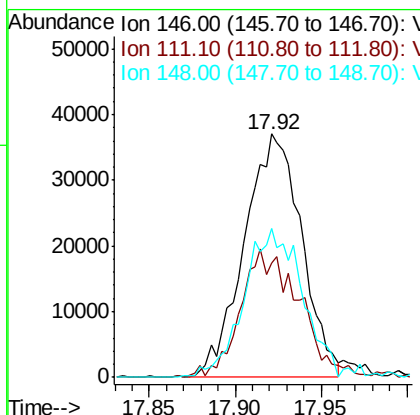
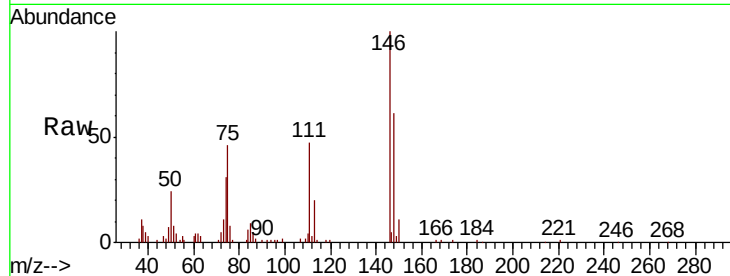
#77
 1,2-Dichlorobenzene
 Concen: 0.503 ppbv
 RT: 17.92 min Scan# 4707
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	54.4	25.1	75.3
148	63.7	32.3	96.8

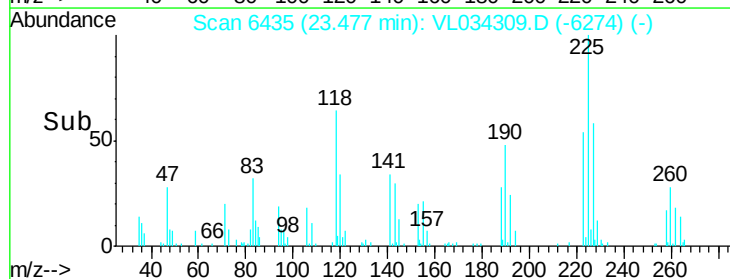
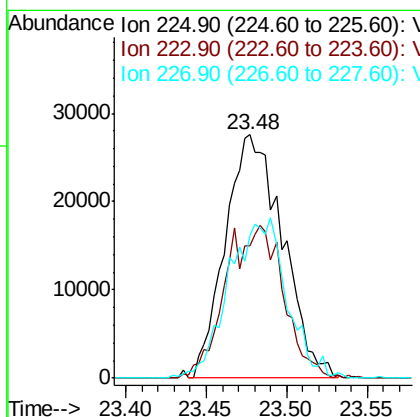
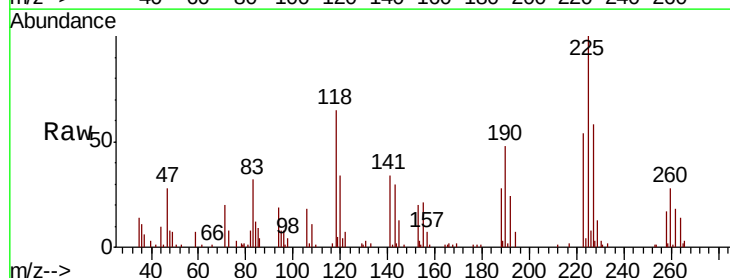
Manual Integrations
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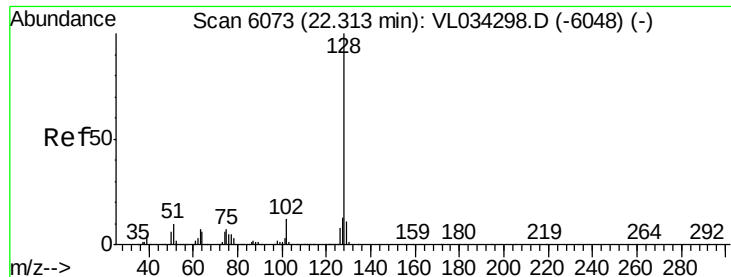
MMDadoda
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#78
 Hexachloro-1,3-Butadiene
 Concen: 0.484 ppbv m
 RT: 23.48 min Scan# 6435
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.1	50.8	76.2
227	65.8	51.5	77.3





#79

Naphthalene

Concen: 0.363 ppbv m

RT: 22.34 min Scan# 6082

Delta R.T. 0.03 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Instrument :

MSVOA_L

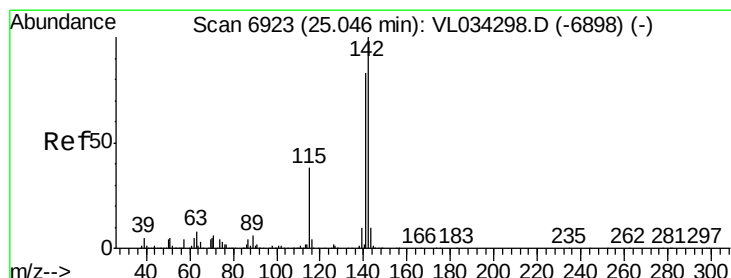
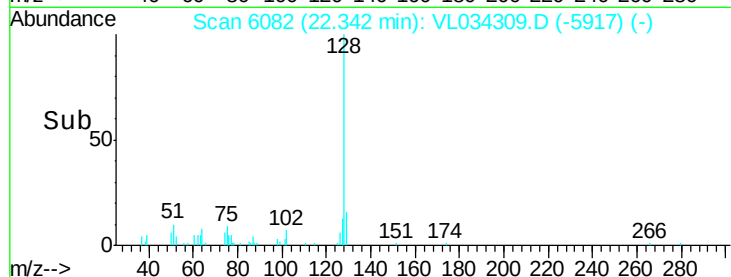
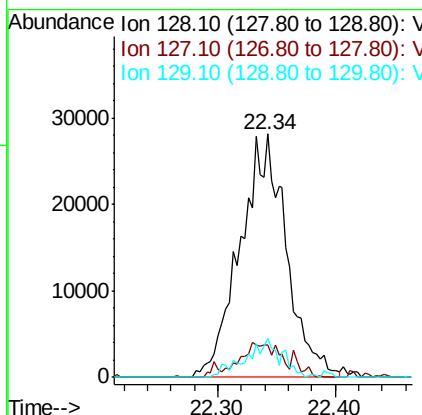
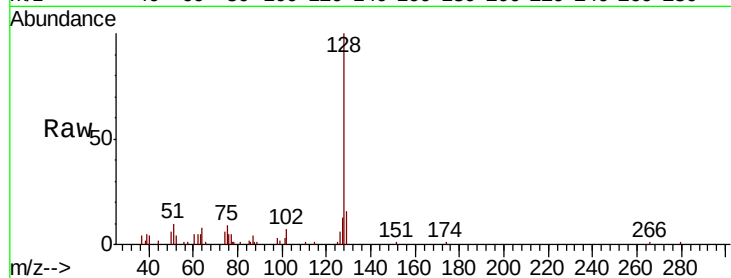
ClientSampleId :

LOQ-AIR-02-QT4-2019

Tot Ion:	128	Resp:	76685
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.2	15.4
129	16.0	8.9	13.3#

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#80

Naphthalene, 2-methyl-

Concen: 0.216 ppbv

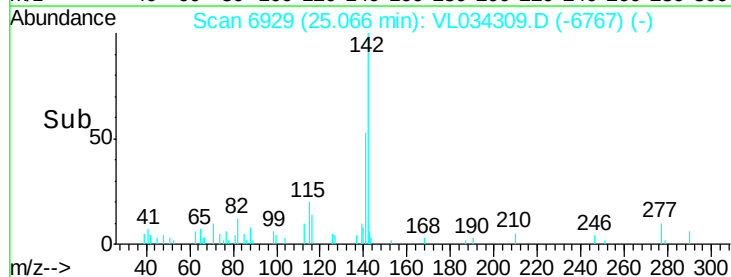
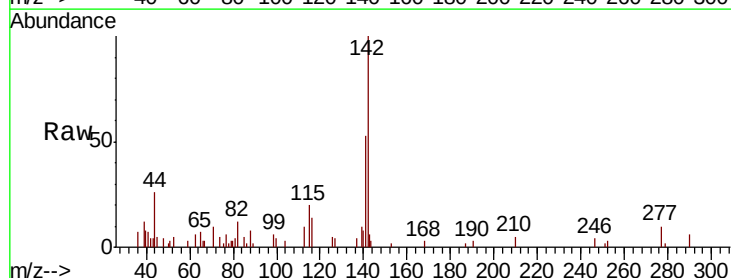
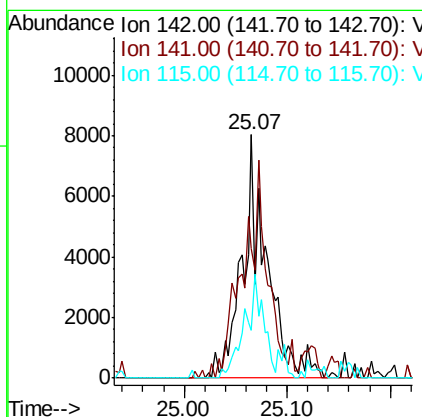
RT: 25.07 min Scan# 6929

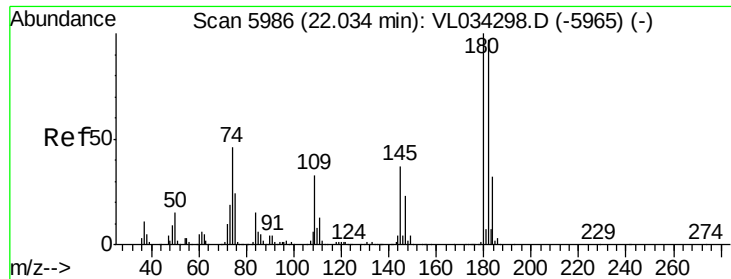
Delta R.T. 0.02 min

Lab File: VL034309.D

Acq: 16 Oct 2019 22:44

Tgt Ion:	142	Resp:	13191
Ion Ratio	Lower	Upper	
142	100		
141	90.9	65.7	98.5
115	37.3	30.9	46.3





#81
 1,2,4-Trichlorobenzene
 Concen: 0.432 ppbv m
 RT: 22.06 min Scan# 5993
 Delta R.T. 0.02 min
 Lab File: VL034309.D
 Acq: 16 Oct 2019 22:44

Instrument :
 MSVOA_L
 ClientSampleId :
 LOQ-AIR-02-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.8	116.8#
184	32.3	25.4	38.2

Manual Integrations
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