

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090519\
 Data File : VL034123.D
 Acq On : 5 Sep 2019 4:27
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:14:58 AM

Quant Time: Sep 05 10:11:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 09:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.71	49	1189515	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	2174298	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2206090	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.51	95	1853126	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	117004	0.596	ppbv	96
3) Chlorodifluoromethane	2.98	51	72202	0.545	ppbv	96
4) Chloromethane	3.13	50	43732	0.528	ppbv	98
5) Vinyl Chloride	3.25	62	37434	0.496	ppbv #	85
6) Bromomethane	3.47	94	20026m	0.537	ppbv	
7) Chloroethane	3.56	64	13056m	0.508	ppbv	
8) Dichlorotetrafluoroethane	3.18	85	87178	0.552	ppbv	99
9) Propene	3.00	41	40134	0.541	ppbv	92
10) Heptane	8.19	43	102752	0.534	ppbv	100
11) Trichlorofluoromethane	3.96	101	87954	0.550	ppbv	91
12) 1,1,2-Trichlorotrifluoroet	4.51	101	58077	0.543	ppbv	98
13) Ethanol	3.61	45	8410m	0.501	ppbv	
14) Bromoethene	3.75	108	23295m	0.503	ppbv	
15) Acetone	3.87	43	81023	0.565	ppbv	100
16) 1,3-Butadiene	3.33	39	37288	0.514	ppbv	93
17) tert-Butyl alcohol	4.33	59	57857	0.556	ppbv	99
18) 1,1-Dichloroethene	4.30	96	25299m	0.518	ppbv	
19) Isopropyl Alcohol	3.99	45	59502m	0.617	ppbv	
20) Methylene Chloride	4.36	84	26294	0.555	ppbv	91
21) Allyl Chloride	4.43	41	48530	0.513	ppbv	99
22) trans-1,2-Dichloroethene	4.91	96	26378m	0.539	ppbv	
23) Vinyl Acetate	5.10	43	126073	0.518	ppbv	97
24) 1,1-Dichloroethane	5.04	63	88095	0.546	ppbv #	96
25) Ethyl Acetate	5.72	43	174631	0.555	ppbv	100
26) Hexane	5.72	57	81308	0.581	ppbv	92
27) Carbon Disulfide	4.57	76	60730m	0.482	ppbv	
28) Methyl tert-Butyl Ether	5.07	73	107063	0.522	ppbv	97
29) Chloroform	5.79	83	103128	0.546	ppbv	86
30) Cyclohexane	7.18	84	52729	0.521	ppbv	97
31) cis-1,2-Dichloroethene	5.58	61	68578	0.512	ppbv	90
32) 1,1,1-Trichloroethane	6.56	97	88429	0.499	ppbv	98
34) 2-Butanone	5.29	43	114052	0.546	ppbv	98
35) Carbon Tetrachloride	7.07	117	82893	0.493	ppbv	91
36) Benzene	6.95	78	134590	0.542	ppbv	96
37) 1,2-Dichloroethane	6.35	62	82988	0.545	ppbv	97
38) Trichloroethene	7.89	130	44574m	0.485	ppbv	
39) 1,2-Dichloropropane	7.67	63	58709m	0.552	ppbv	
40) 1,4-Dioxane	7.92	88	24250m	0.618	ppbv	
41) Tetrahydrofuran	6.11	42	64847	0.520	ppbv	97
42) Bromodichloromethane	7.85	83	102226	0.514	ppbv	100
43) Methyl Methacrylate	8.08	69	51392	0.502	ppbv	95

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Manual Integrations
 APPROVED

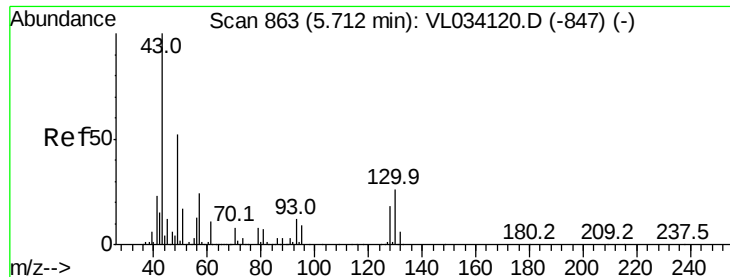
MMDadoda
 9/12/2019 5:14:58 AM

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.93	57	264512	0.577	ppbv	96
45) t-1,3-Dichloropropene	9.35	75	50841	0.423	ppbv	91
46) cis-1,3-Dichloropropene	8.77	75	68374	0.467	ppbv #	81
47) 1,1,2-Trichloroethane	9.55	97	53196m	0.550	ppbv	
48) Dibromochloromethane	10.39	129	69918	0.484	ppbv	97
49) Bromoform	13.13	173	58570m	0.463	ppbv	
50) 4-Methyl-2-Pentanone	8.82	43	177732	0.557	ppbv	96
51) 2-Hexanone	10.22	43	149332m	0.547	ppbv	
52) Tetrachloroethene	11.31	164	44487m	0.511	ppbv	
53) Toluene	9.88	91	151399	0.551	ppbv	93
54) 1,2-Dibromoethane	10.69	107	77460m	0.538	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.21	131	51166m	0.541	ppbv	
57) Chlorobenzene	12.23	112	112056	0.590	ppbv #	93
58) Ethyl Benzene	12.80	91	206110m	0.570	ppbv	
59) m/p-Xylene	13.08	91	332616m	1.130	ppbv	
60) o-Xylene	13.78	91	175632	0.598	ppbv	94
61) Styrene	13.62	104	120728m	0.550	ppbv	
62) Isopropylbenzene	14.76	105	222667m	0.582	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.77	83	129784m	0.540	ppbv	
64) n-propylbenzene	15.66	120	50460	0.519	ppbv #	60
65) tert-Butylbenzene	16.84	119	195139m	0.593	ppbv	
66) Benzyl Chloride	17.09	91	45021m	0.371	ppbv	
67) sec-Butylbenzene	17.39	105	277229m	0.584	ppbv	
69) p-Isopropyltoluene	17.74	119	220368m	0.582	ppbv	
70) n-Butylbenzene	18.65	91	254141	0.588	ppbv	95
71) 2-Chlorotoluene	15.55	91	176831	0.566	ppbv	98
72) 4-Ethyltoluene	15.93	105	186226	0.562	ppbv	98
73) 1,3,5-Trimethylbenzene	16.09	105	182153	0.565	ppbv	100
74) 1,2,4-Trimethylbenzene	16.86	105	196542	0.592	ppbv #	93
75) 1,3-Dichlorobenzene	17.10	146	103104m	0.587	ppbv	
76) 1,4-Dichlorobenzene	17.24	146	110068	0.594	ppbv	95
77) 1,2-Dichlorobenzene	17.92	146	108217m	0.602	ppbv	
78) Hexachloro-1,3-Butadiene	23.47	225	73423m	0.599	ppbv	
79) Naphthalene	22.33	128	161168m	0.538	ppbv	
80) Naphthalene, 2-methyl-	25.06	142	29406	0.282	ppbv	95
81) 1,2,4-Trichlorobenzene	22.05	180	90705m	0.556	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.71 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1189515

Ion Ratio Lower Upper

49 100

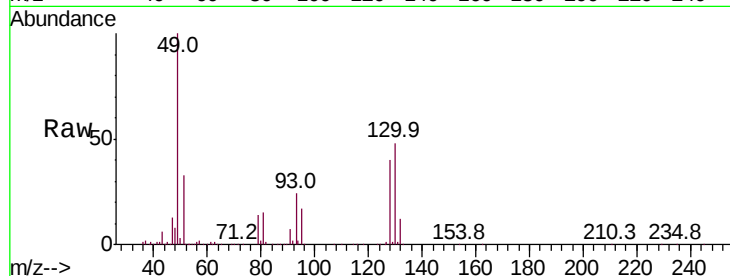
128 37.4 18.4 55.0

130 48.0 23.5 70.6

Manual Integrations
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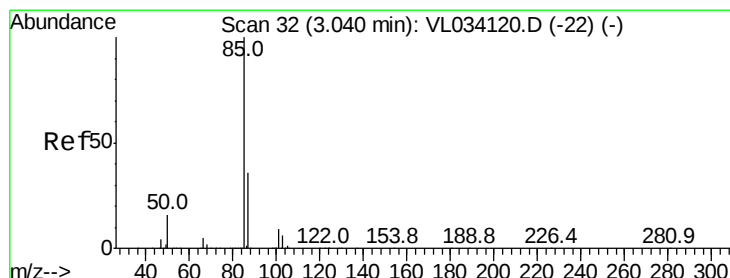
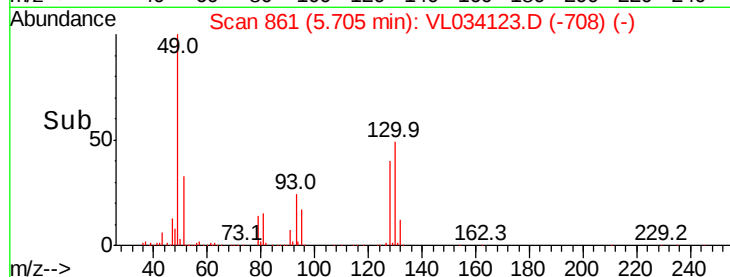
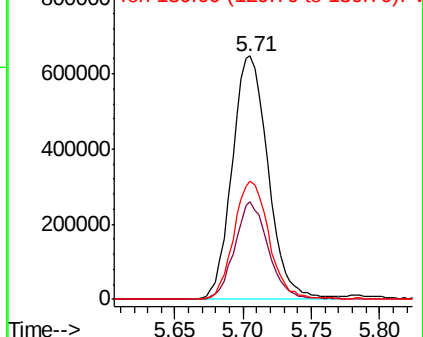
9/12/2019 5:14:58 AM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.596 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL034123.D

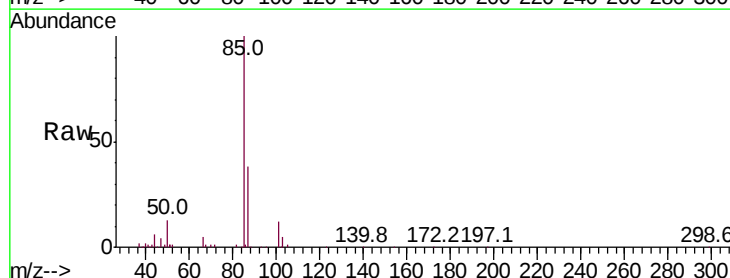
Acq: 5 Sep 2019 4:27

Tgt Ion: 85 Resp: 117004

Ion Ratio Lower Upper

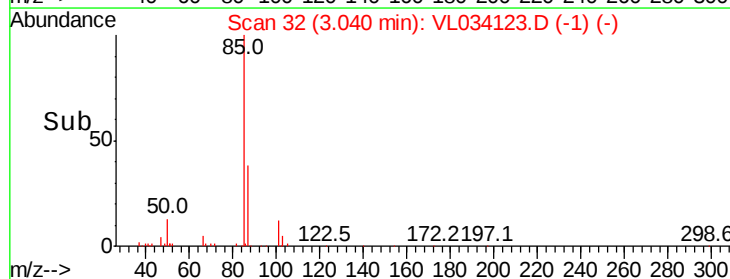
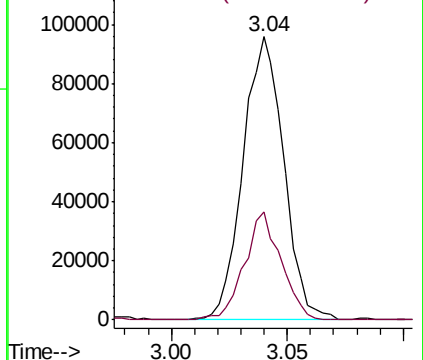
85 100

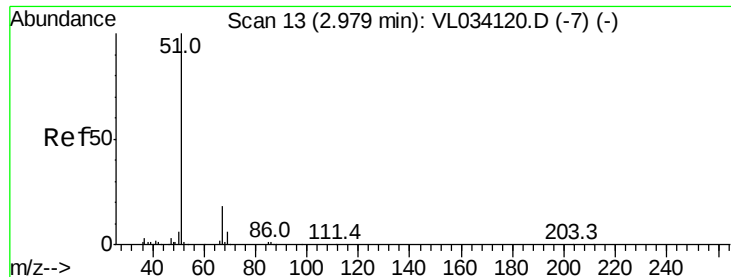
87 38.2 28.6 43.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





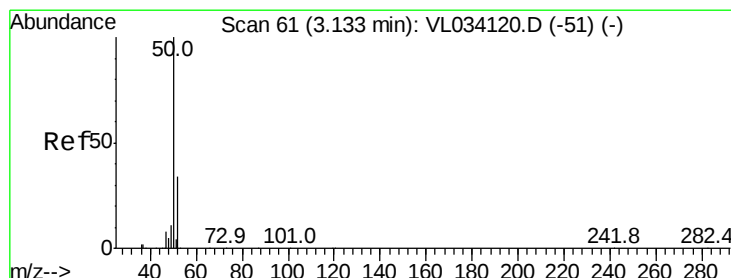
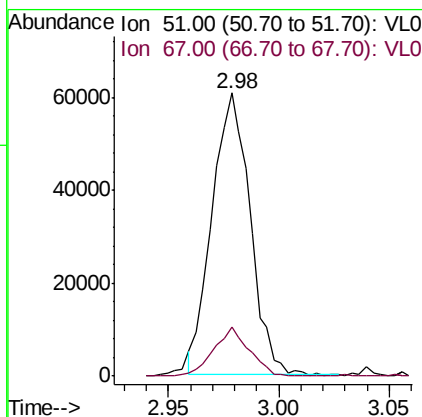
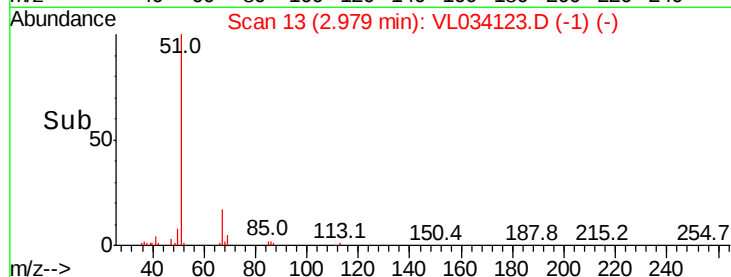
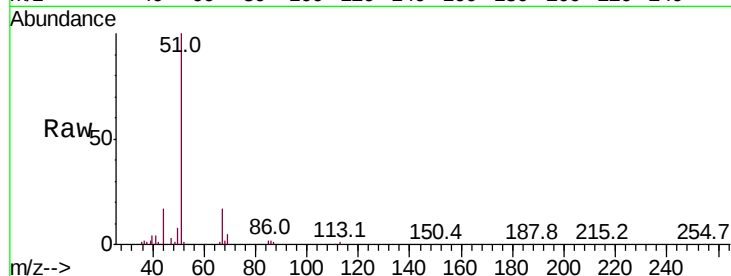
#3
Chlorodifluoromethane
Concen: 0.545 ppbv
RT: 2.98 min Scan# 13
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
51	100		
67	15.9	14.2	21.4

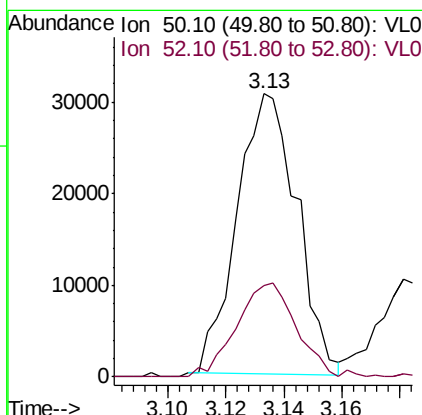
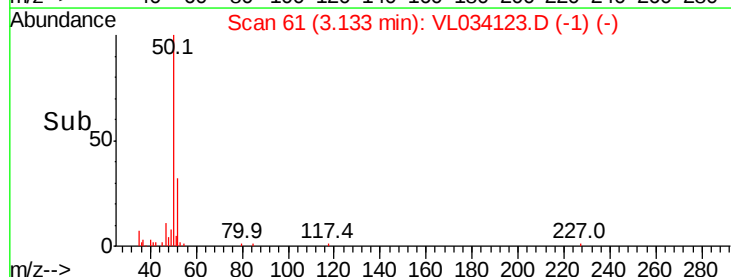
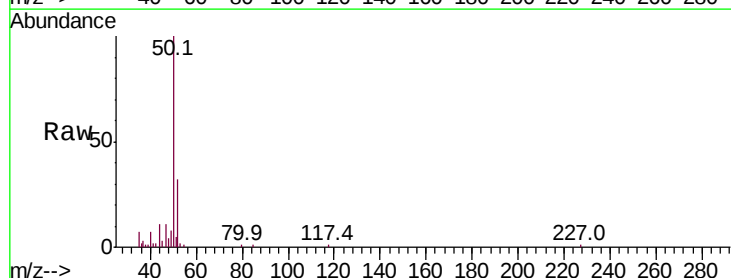
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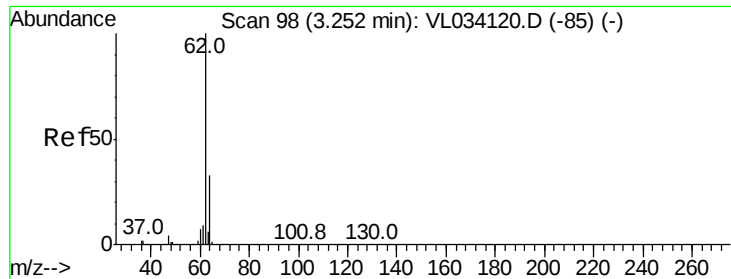
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#4
Chloromethane
Concen: 0.528 ppbv
RT: 3.13 min Scan# 61
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
50	100		
52	32.9	27.4	41.2





#5

Vinyl Chloride

Concen: 0.496 ppbv

RT: 3.25 min Scan# 98

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 37434

Ion Ratio Lower Upper

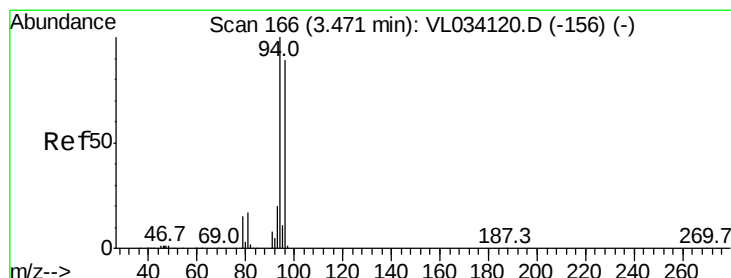
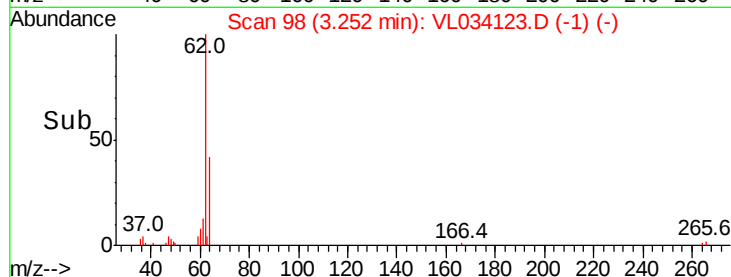
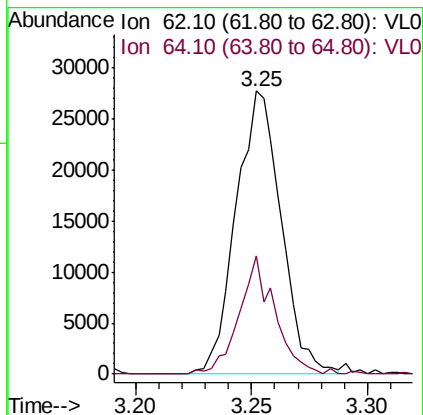
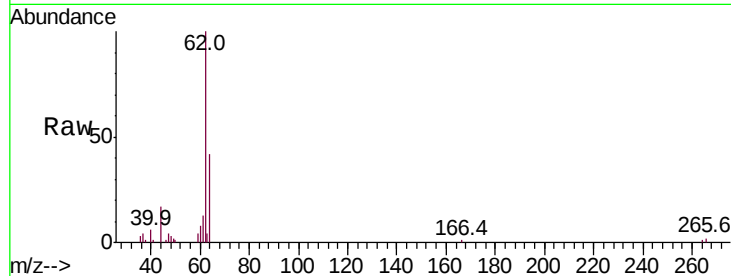
62 100

64 41.9 26.6 39.8#

Manual Integrations
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#6

Bromomethane

Concen: 0.537 ppbv m

RT: 3.47 min Scan# 167

Delta R.T. 0.00 min

Lab File: VL034123.D

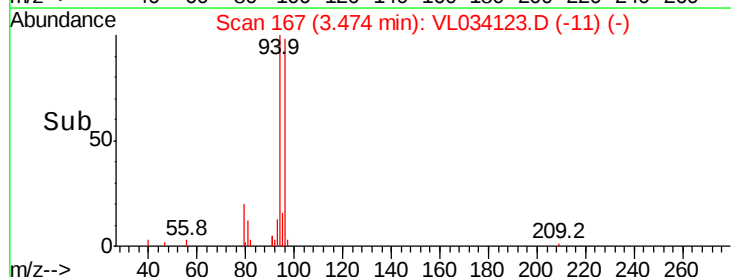
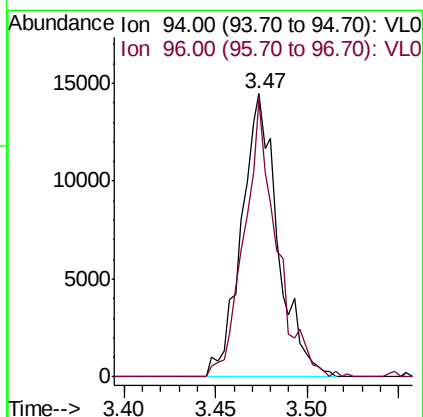
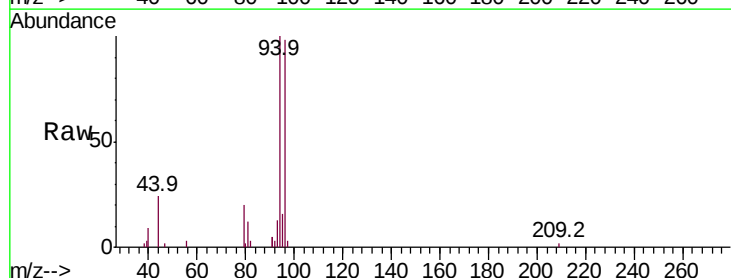
Acq: 5 Sep 2019 4:27

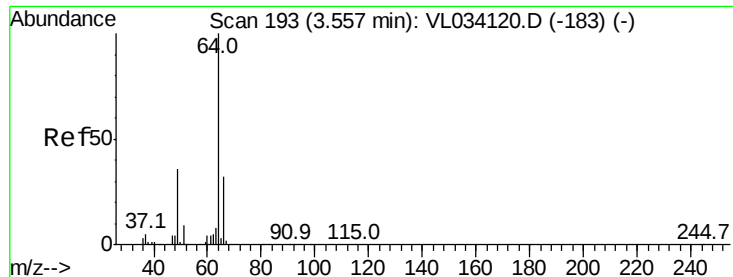
Tgt Ion: 94 Resp: 20026

Ion Ratio Lower Upper

94 100

96 97.9 71.4 107.0





#7

Chloroethane

Concen: 0.508 ppbv m

RT: 3.56 min Scan# 195

Delta R.T. 0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 13056

Ion Ratio Lower Upper

64 100

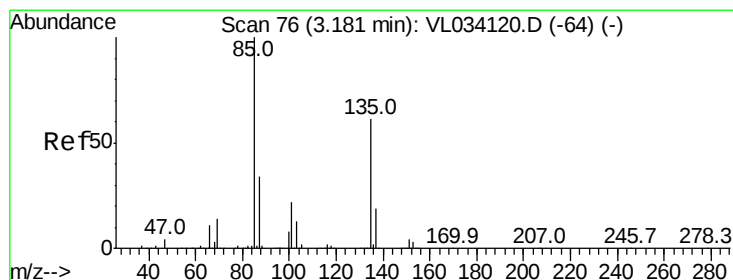
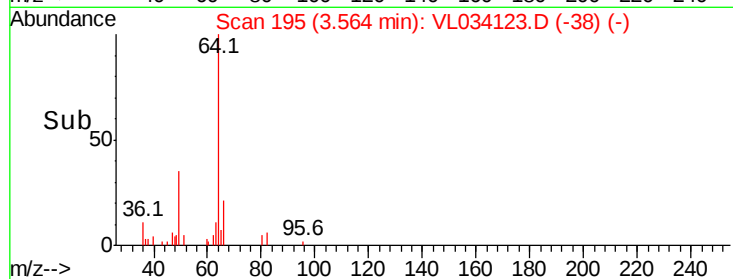
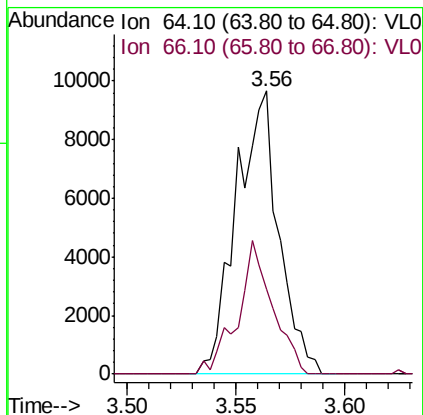
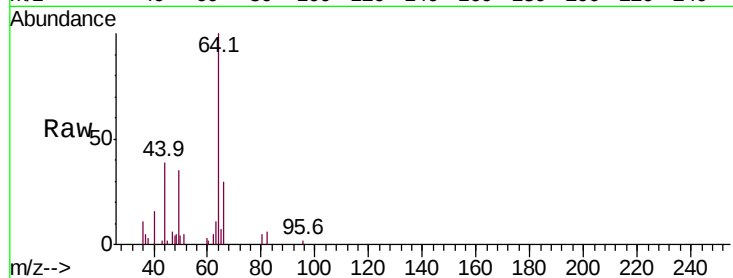
66 30.2 25.4 38.2

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.552 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.00 min

Lab File: VL034123.D

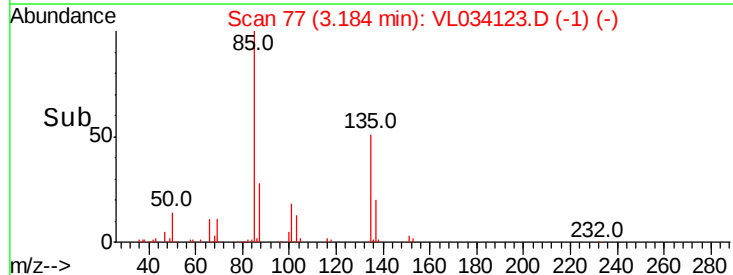
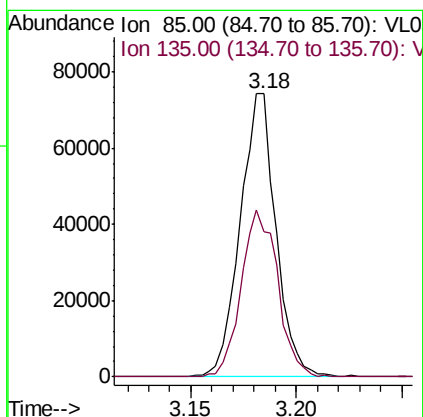
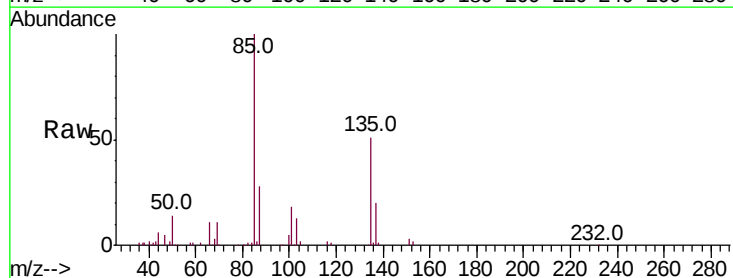
Acq: 5 Sep 2019 4:27

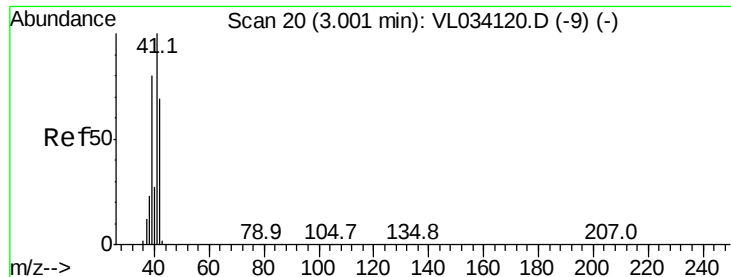
Tgt Ion: 85 Resp: 87178

Ion Ratio Lower Upper

85 100

135 60.6 48.0 72.0





#9

Propene

Concen: 0.541 ppbv

RT: 3.00 min Scan# 21

Delta R.T. 0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 40134

Ion Ratio Lower Upper

41 100

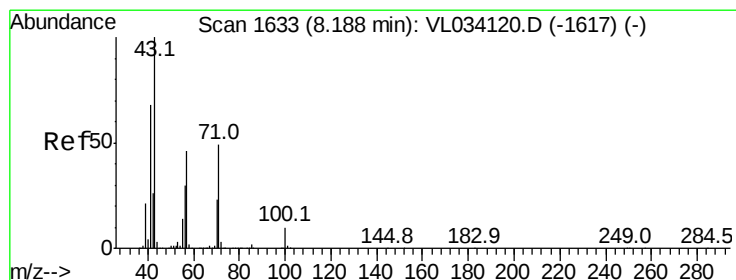
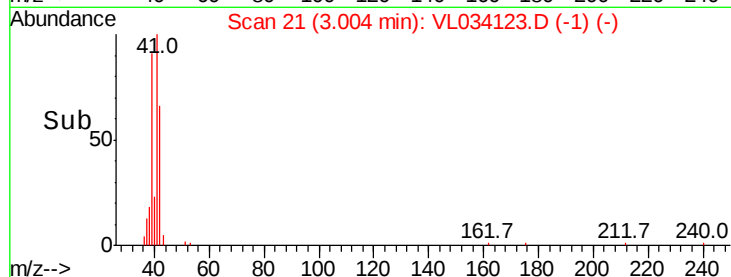
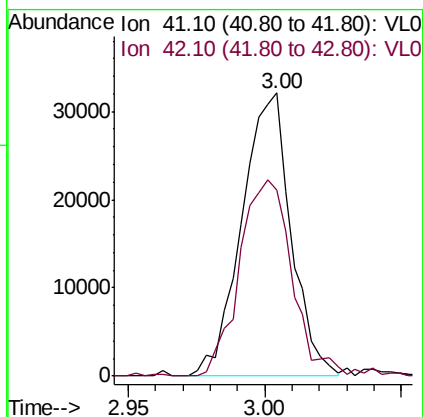
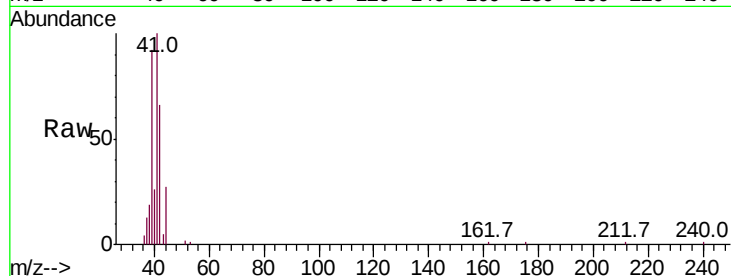
42 74.8 54.6 81.8

Manual Integrations

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#10

Heptane

Concen: 0.534 ppbv

RT: 8.19 min Scan# 1634

Delta R.T. 0.00 min

Lab File: VL034123.D

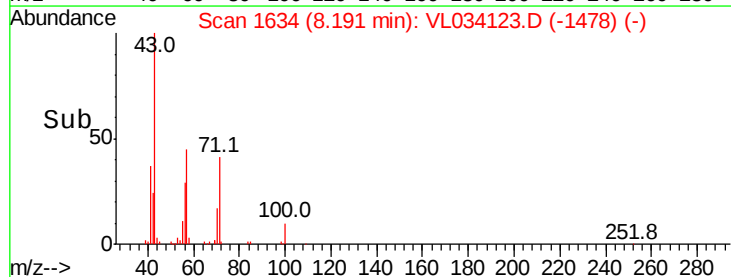
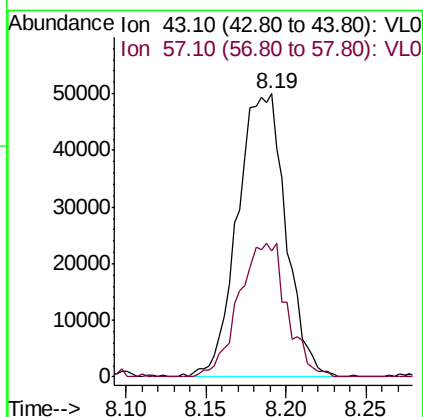
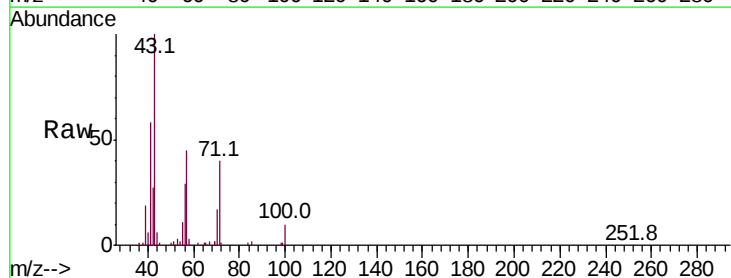
Acq: 5 Sep 2019 4:27

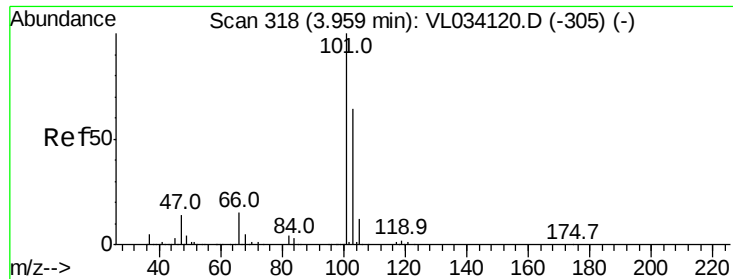
Tgt Ion: 43 Resp: 102752

Ion Ratio Lower Upper

43 100

57 47.4 38.1 57.1





#11

Trichlorofluoromethane

Concen: 0.550 ppbv

RT: 3.96 min Scan# 318

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:101 Resp: 87954

Ion Ratio Lower Upper

101 100

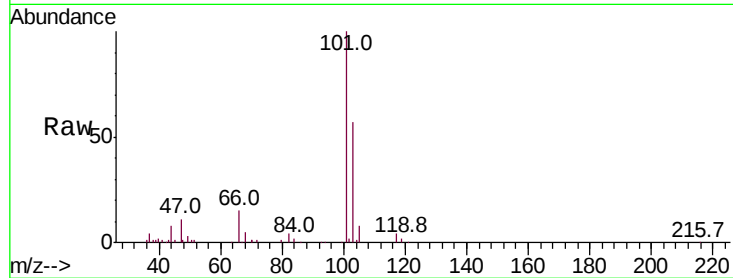
103 57.4 51.4 77.2

Manual Integrations

APPROVED

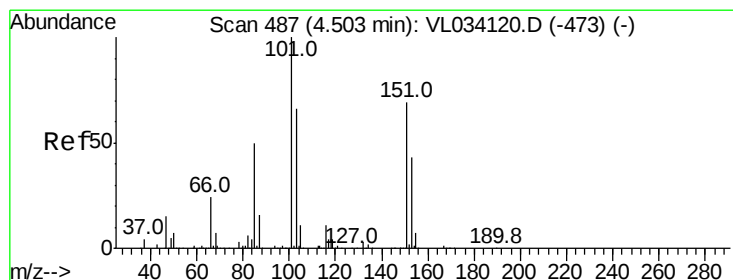
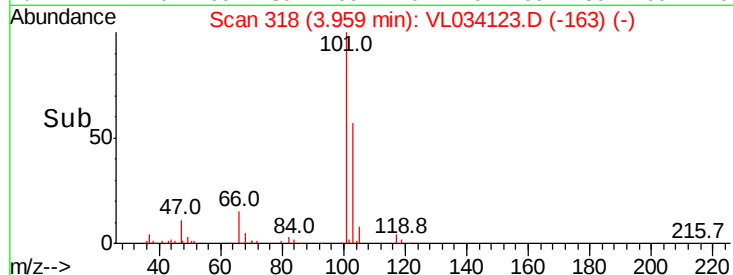
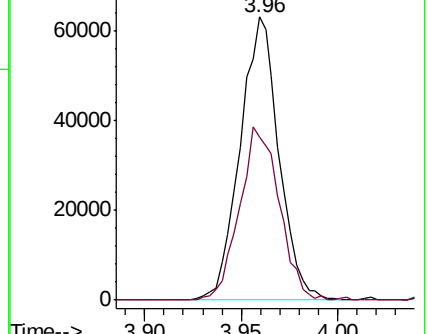
MMDadoda

9/12/2019 5:14:58 AM



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: 0.543 ppbv

RT: 4.51 min Scan# 488

Delta R.T. 0.00 min

Lab File: VL034123.D

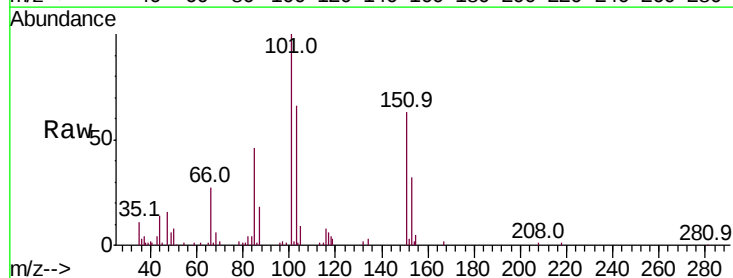
Acq: 5 Sep 2019 4:27

Tgt Ion:101 Resp: 58077

Ion Ratio Lower Upper

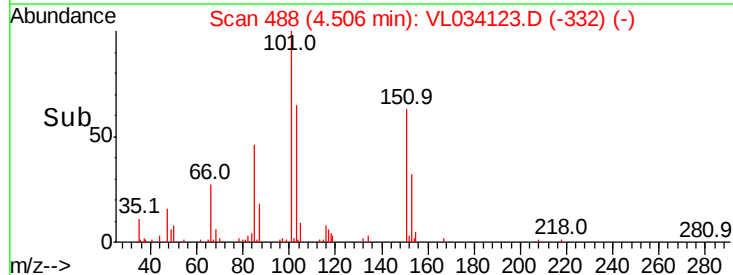
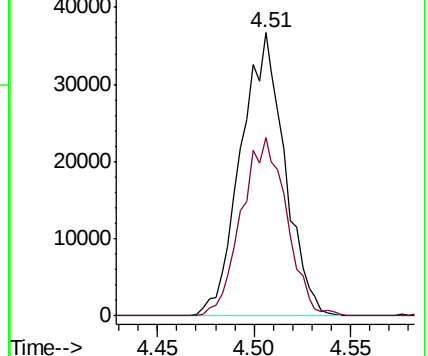
101 100

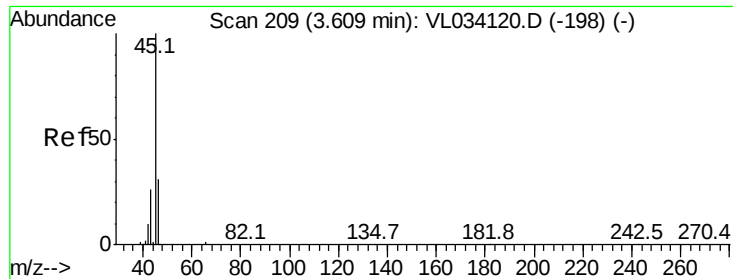
151 64.3 53.0 79.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





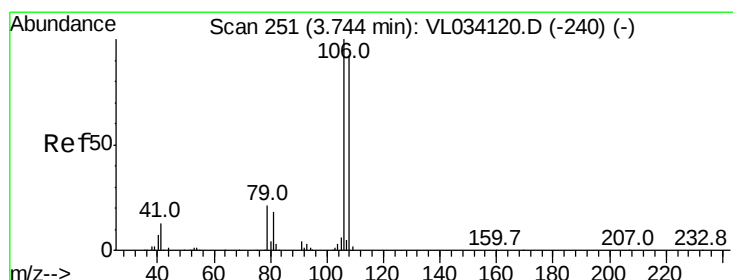
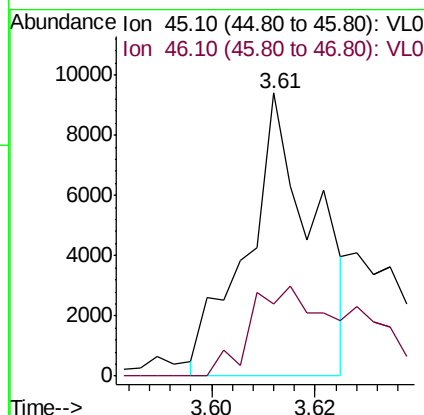
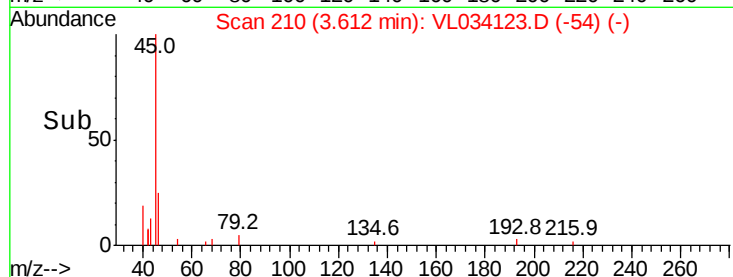
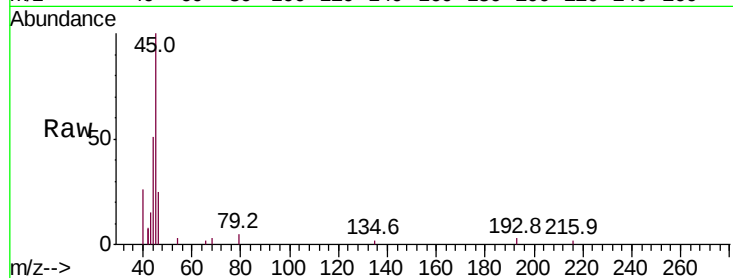
#13
Ethanol
Concen: 0.501 ppbv m
RT: 3.61 min Scan# 210
Delta R.T. 0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.5

Tot Ion: 45 Resp: 8410
Ion Ratio Lower Upper
45 100
46 56.5 15.0 60.0

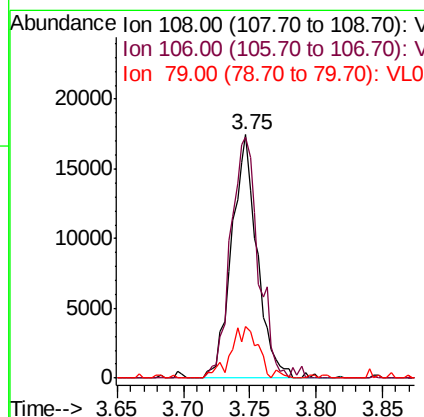
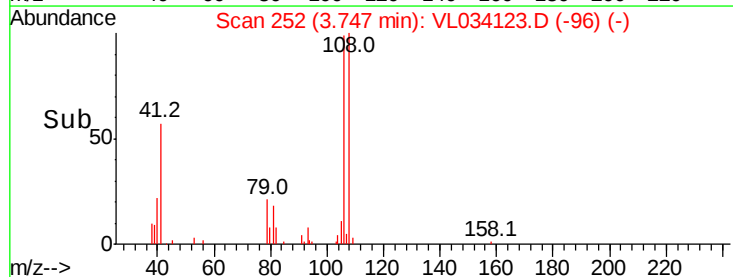
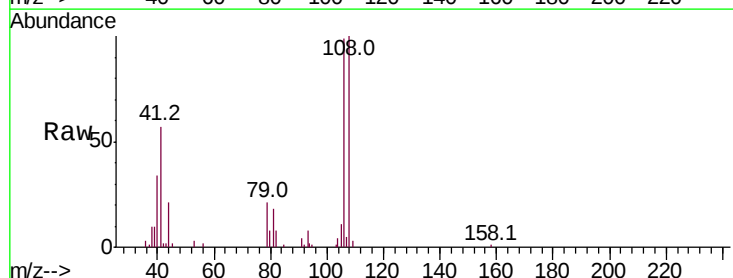
Manual Integrations
APPROVED

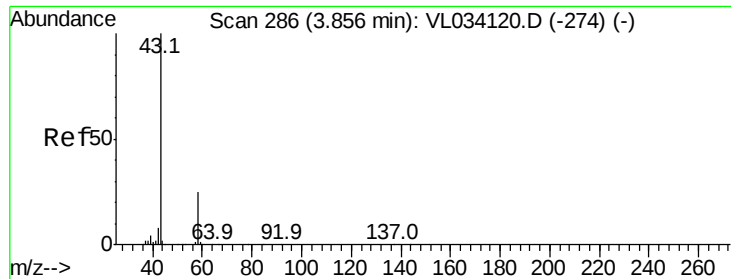
MMDadoda
9/12/2019 5:14:58 AM



#14
Bromoethene
Concen: 0.503 ppbv m
RT: 3.75 min Scan# 252
Delta R.T. 0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion: 108 Resp: 23295
Ion Ratio Lower Upper
108 100
106 109.0 87.2 130.8
79 23.2 16.5 24.7





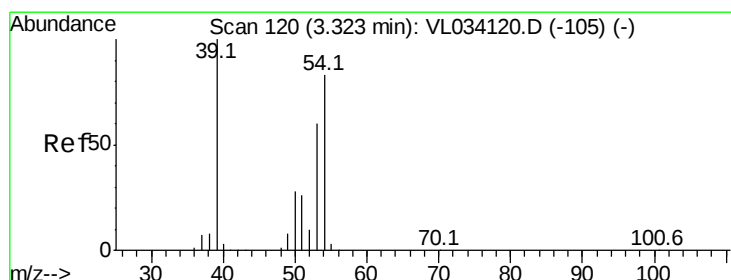
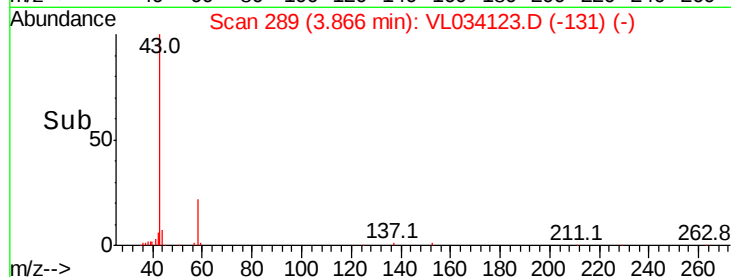
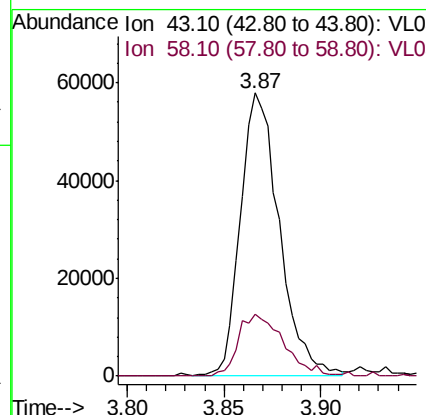
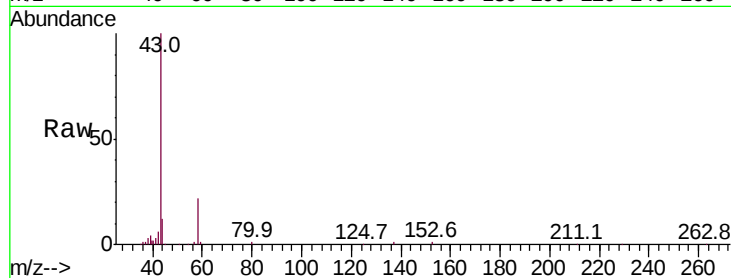
#15
Acetone
Concen: 0.565 ppbv
RT: 3.87 min Scan# 289
Delta R.T. 0.01 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 43 Resp: 81023
Ion Ratio Lower Upper
43 100
58 25.9 20.6 30.8

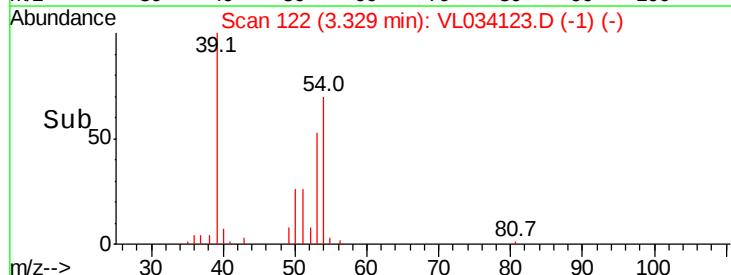
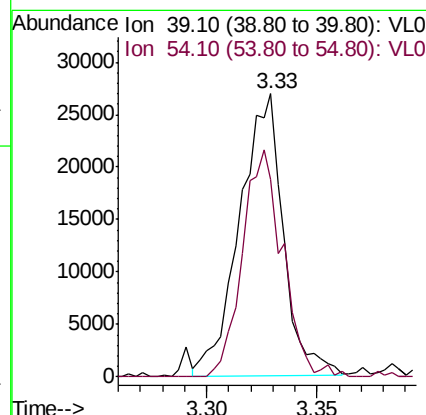
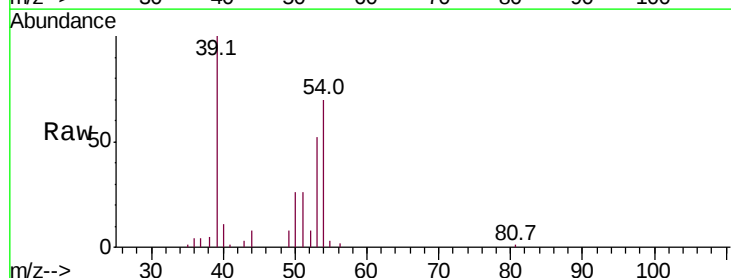
Manual Integrations
APPROVED

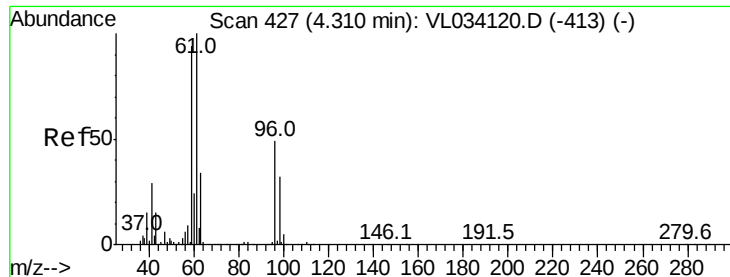
MMDadoda
9/12/2019 5:14:58 AM



#16
1,3-Butadiene
Concen: 0.514 ppbv
RT: 3.33 min Scan# 122
Delta R.T. 0.01 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion: 39 Resp: 37288
Ion Ratio Lower Upper
39 100
54 73.4 63.5 95.3





#17

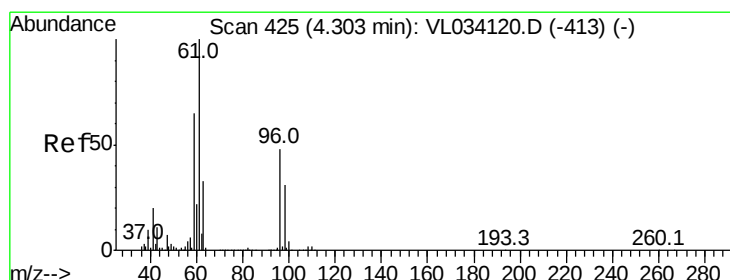
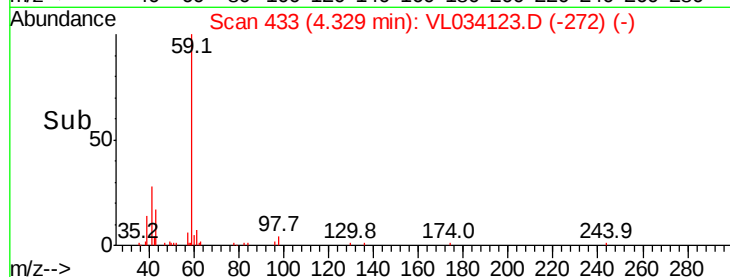
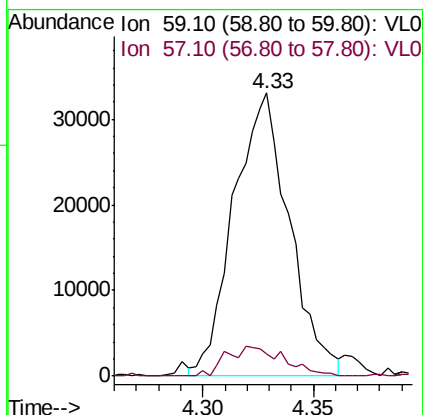
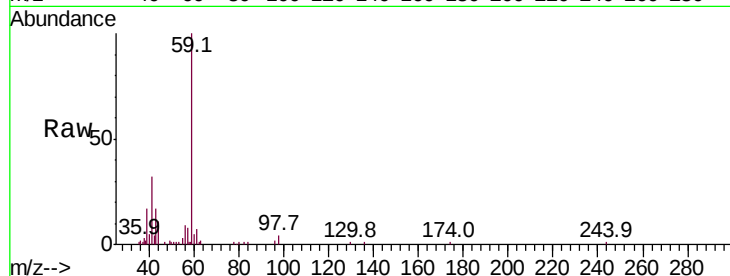
tert-Butyl alcohol
Concen: 0.556 ppbv
RT: 4.33 min Scan# 433
Delta R.T. 0.02 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.9	8.6	12.8

Manual Integrations
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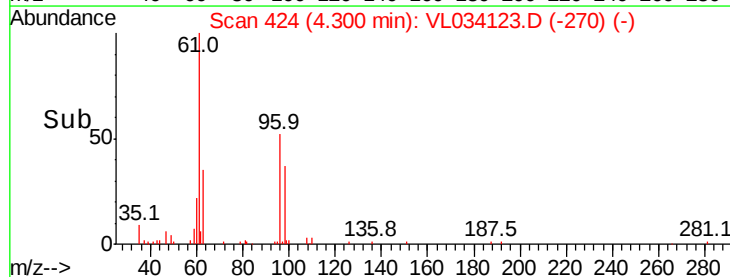
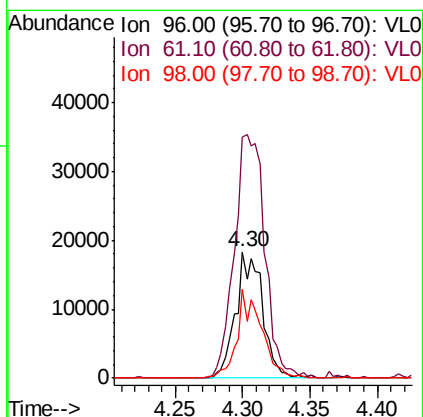
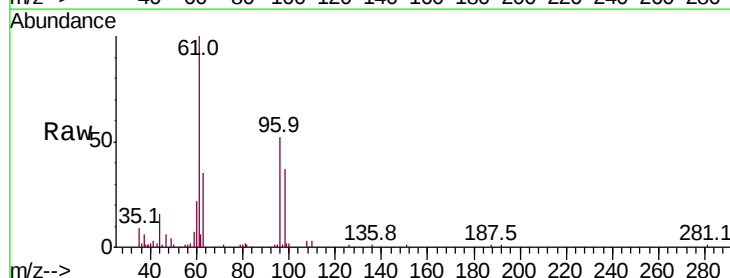
MMDadoda
9/12/2019 5:14:58 AM

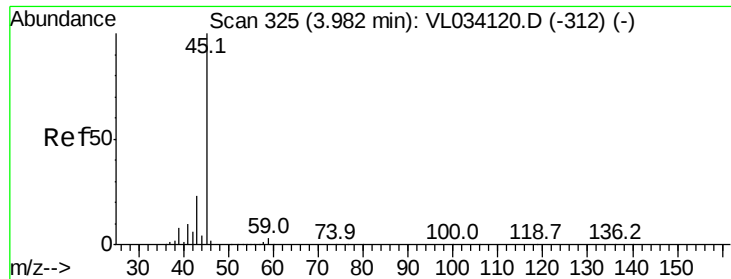


#18

1,1-Dichloroethene
Concen: 0.518 ppbv m
RT: 4.30 min Scan# 424
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	191.7	165.8	248.8
98	70.3	50.8	76.2





#19

Isopropyl Alcohol

Concen: 0.617 ppbv m

RT: 3.99 min Scan# 328

Delta R.T. 0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 59502

Ion Ratio Lower Upper

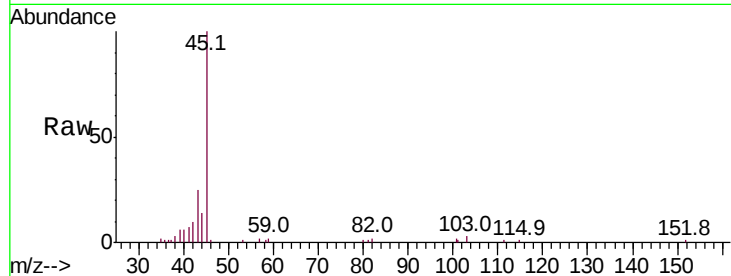
45 100

58 0.0 1.0 1.6#

Manual Integrations
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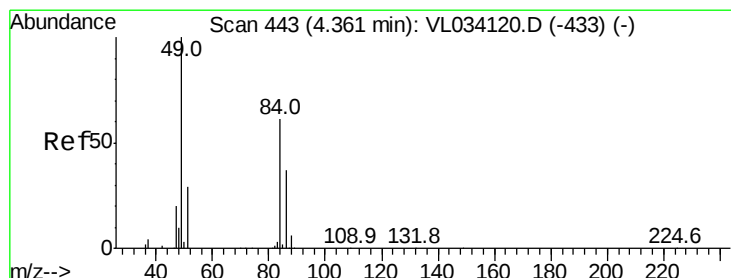
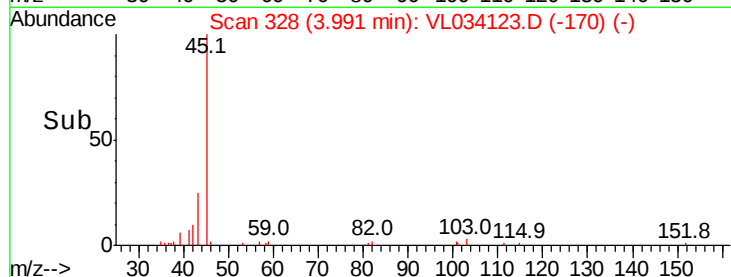
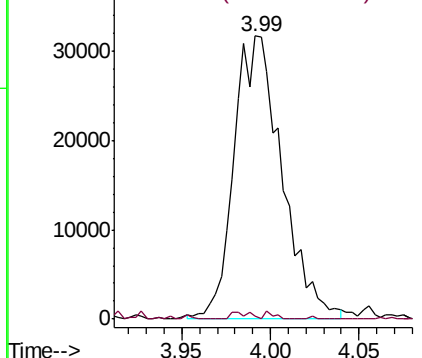
MMDadoda

9/12/2019 5:14:58 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.555 ppbv

RT: 4.36 min Scan# 444

Delta R.T. 0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion: 84 Resp: 26294

Ion Ratio Lower Upper

84 100

49 151.1 131.0 196.6

51 44.2 38.1 57.1

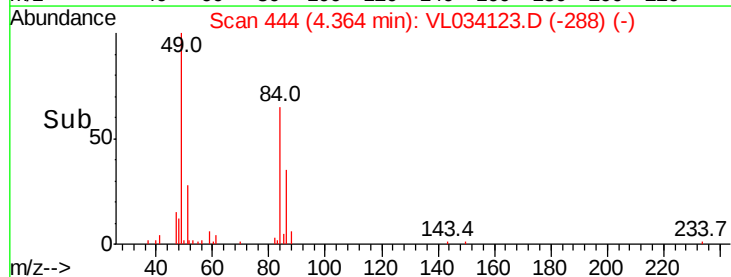
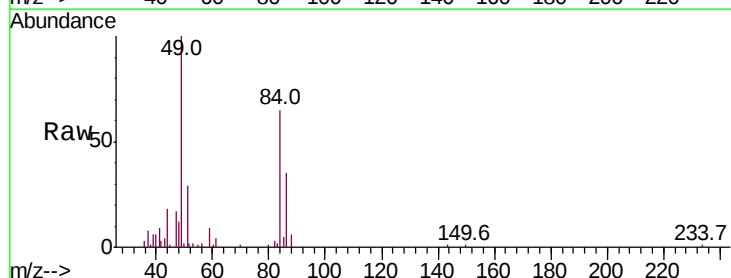
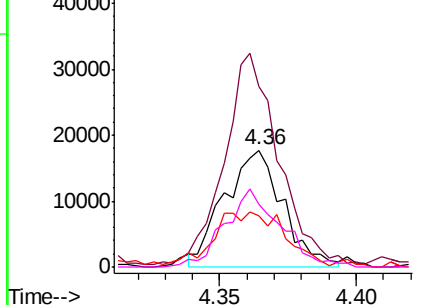
86 51.9 49.0 73.6

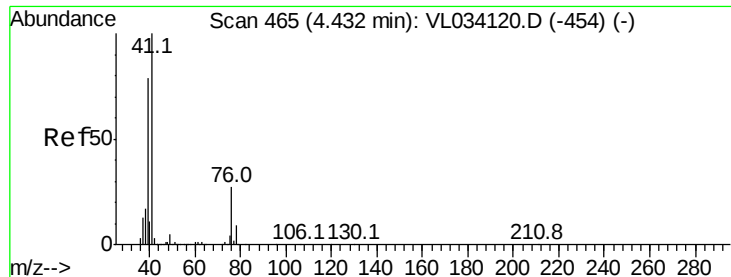
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





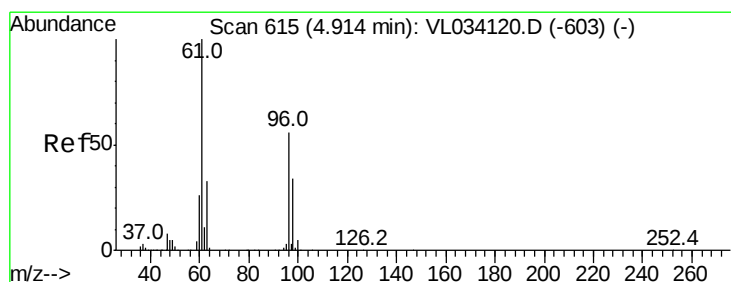
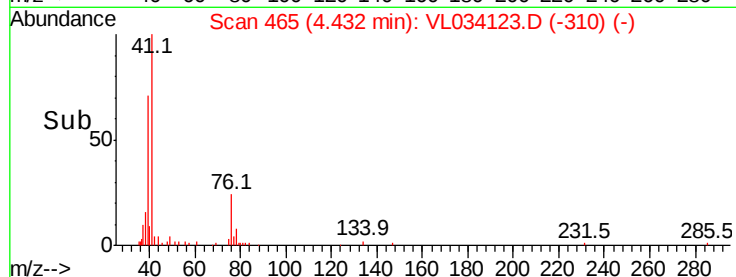
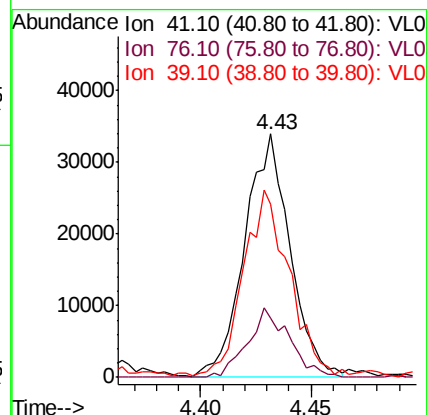
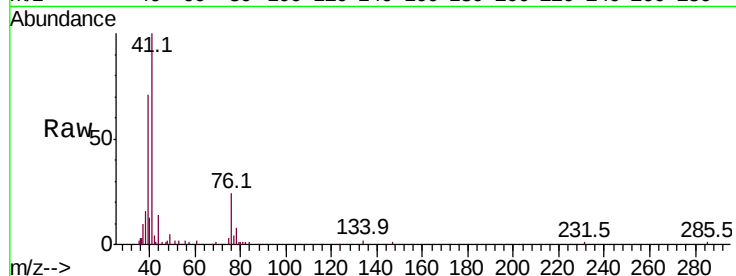
#21
Allvl Chloride
Concen: 0.513 ppbv
RT: 4.43 min Scan# 465
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
41	100	48530		
76	26.0		21.6	32.4
39	82.0		65.0	97.4

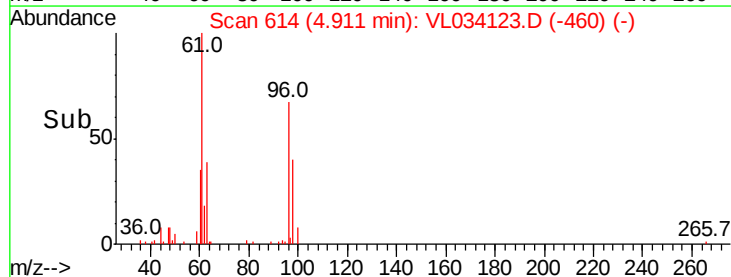
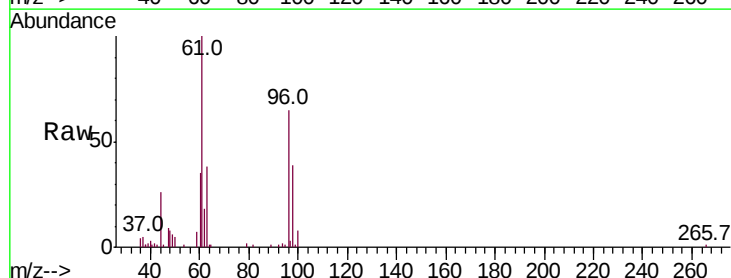
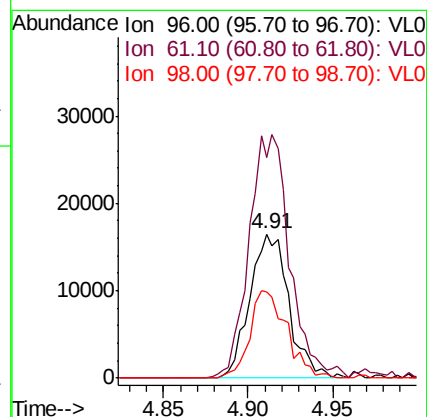
Manual Integrations
APPROVED

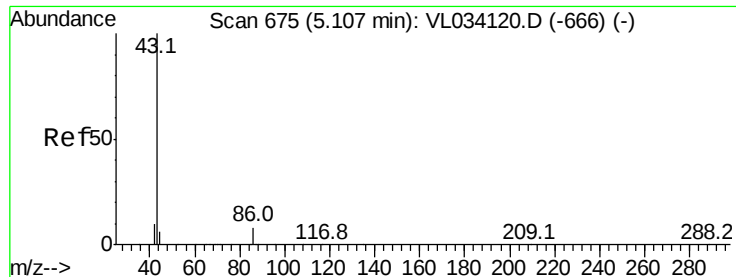
MMDadoda
9/12/2019 5:14:58 AM



#22
trans-1,2-Dichloroethene
Concen: 0.539 ppbv
RT: 4.91 min Scan# 614
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	26378		
61	152.8		143.1	214.7
98	60.1		49.0	73.4





#23

Vinyl Acetate

Concen: 0.518 ppbv

RT: 5.10 min Scan# 674

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
86	7.5	5.5	8.3		
42	8.3	8.2	12.4		
44	5.2	4.3	6.5		

Instrument :

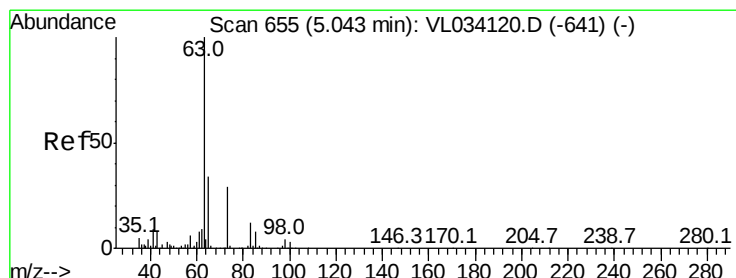
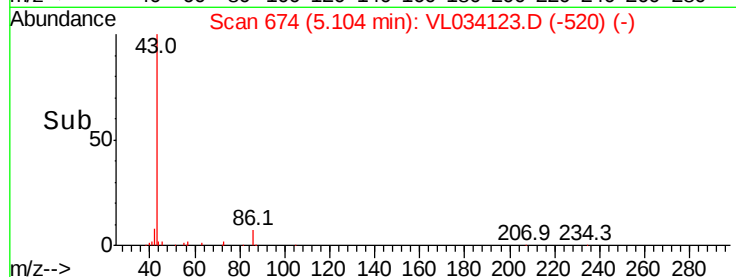
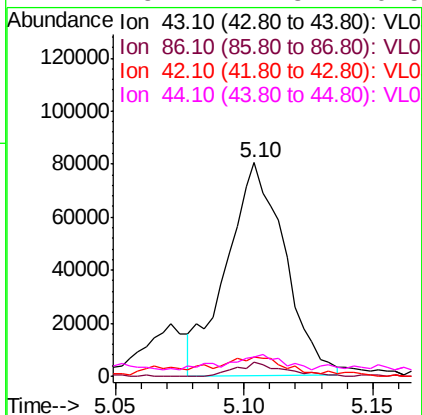
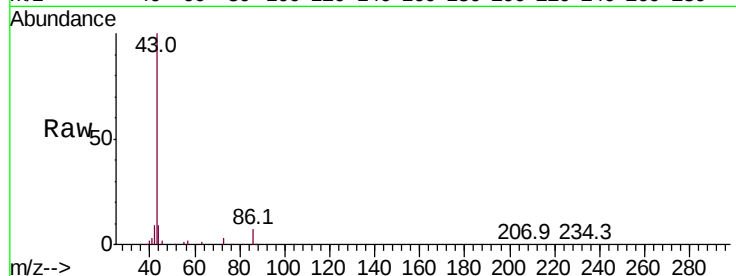
MSVOA_L

ClientSampleId :

VSTDIC0.5

Manual Integrations
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MMDadoda
9/12/2019 5:14:58 AM



#24

1,1-Dichloroethane

Concen: 0.546 ppbv

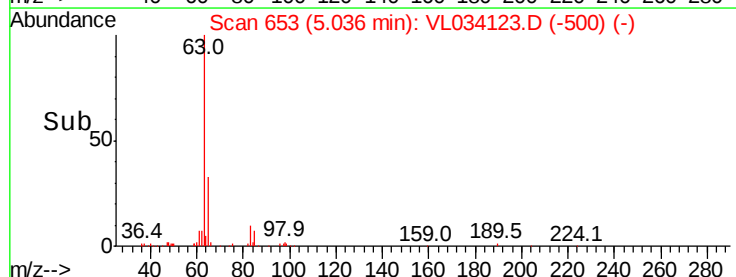
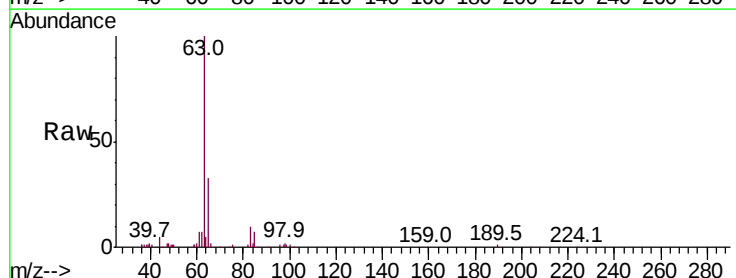
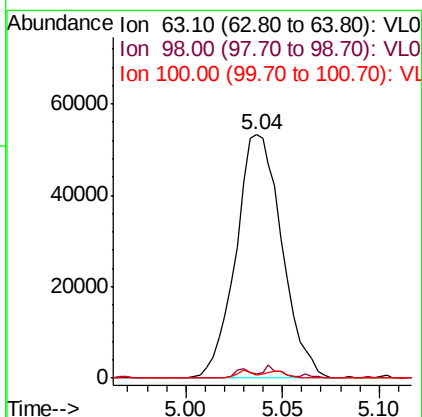
RT: 5.04 min Scan# 653

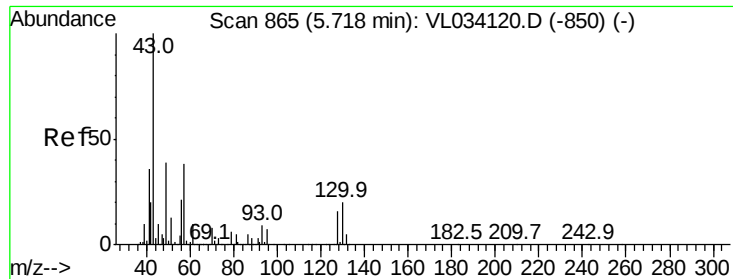
Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
63	100				
98	2.6	2.1	6.2		
100	1.3	1.4	4.0		





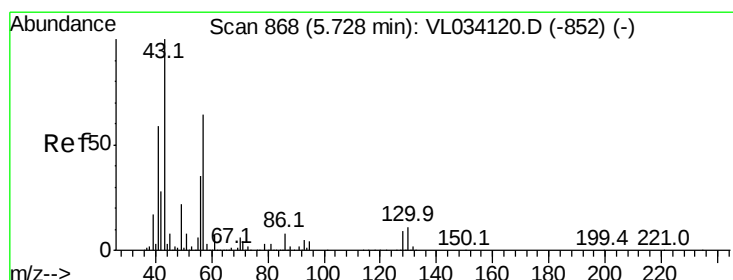
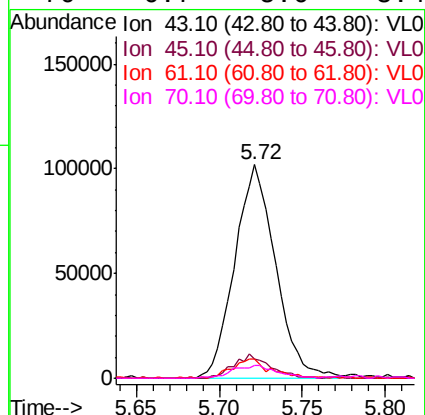
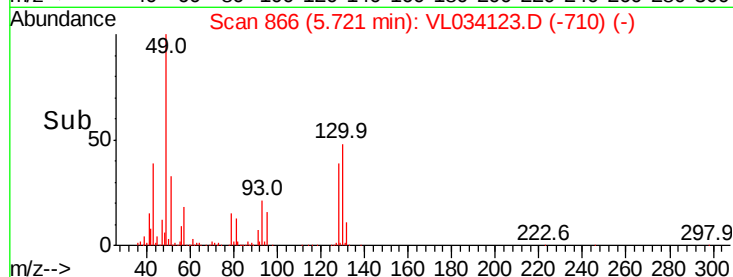
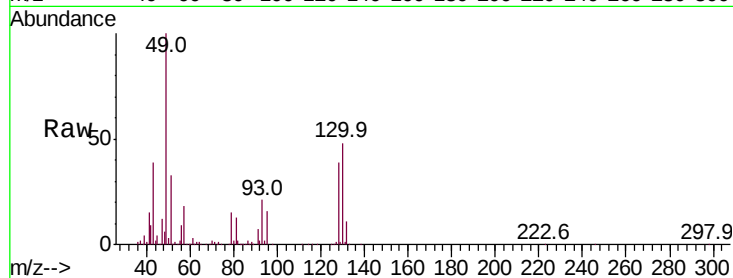
#25
Ethyl Acetate
Concen: 0.555 ppbv
RT: 5.72 min Scan# 866
Delta R.T. 0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.4
61	9.2	7.4	11.2
70	6.7	5.6	8.4

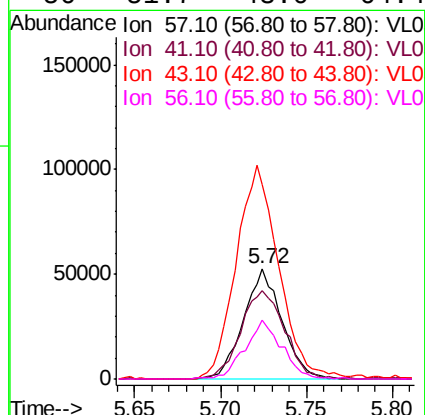
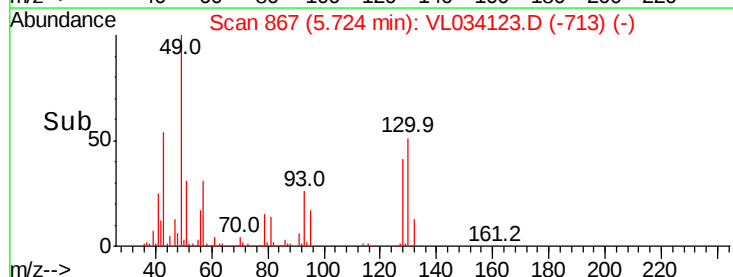
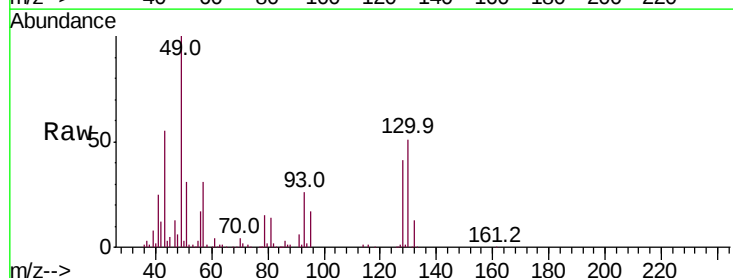
Manual Integrations
APPROVED

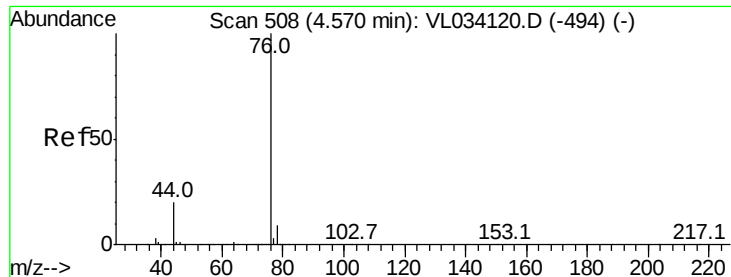
MMDadoda
9/12/2019 5:14:58 AM



#26
Hexane
Concen: 0.581 ppbv
RT: 5.72 min Scan# 867
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.8	76.6	115.0
43	218.3	189.2	283.8
56	51.7	43.0	64.4





#27

Carbon Disulfide

Concen: 0.482 ppbv

RT: 4.57 min Scan# 509

Delta R.T. 0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

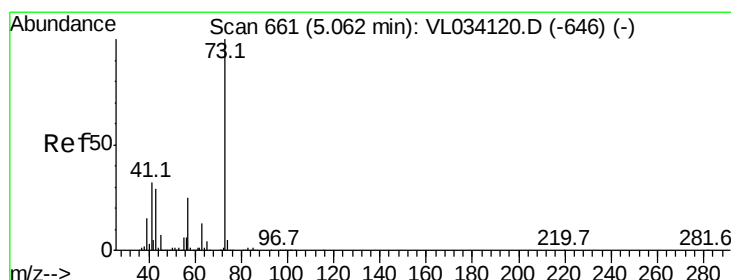
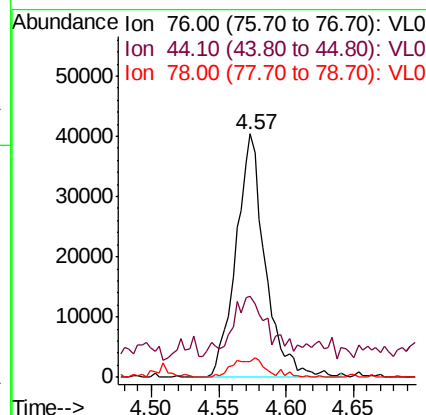
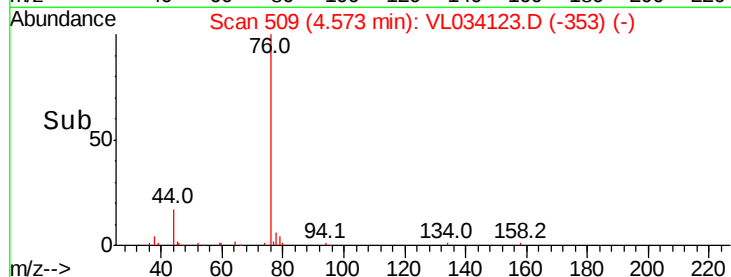
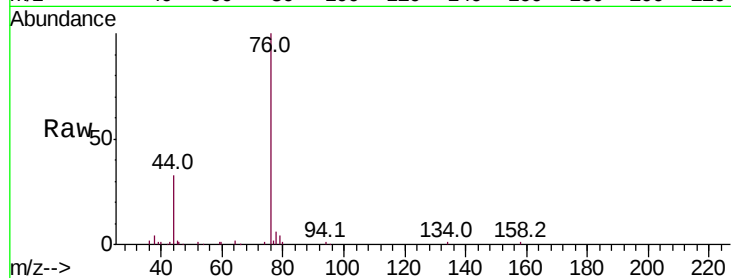
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
76	100		
44	38.9	17.6	26.4#
78	9.4	7.3	10.9

Manual Integrations
APPROVED

MMDadoda
9/12/2019 5:14:58 AM



#28

Methyl tert-Butyl Ether

Concen: 0.522 ppbv

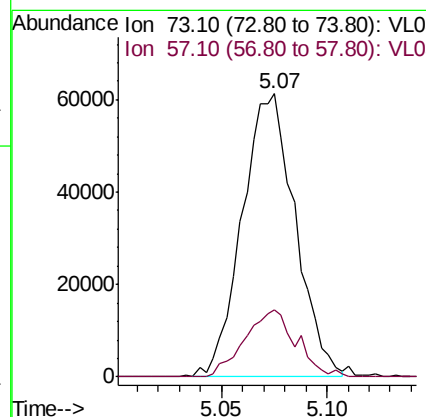
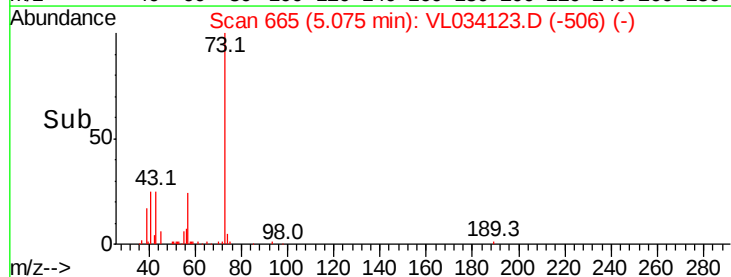
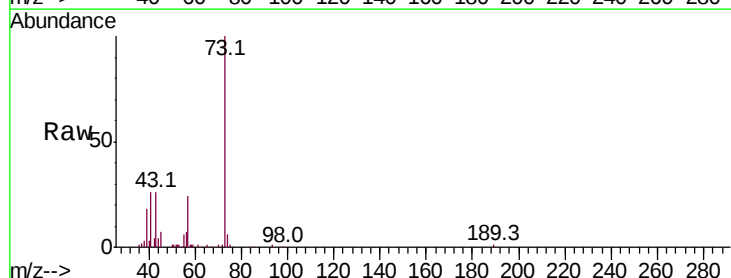
RT: 5.07 min Scan# 665

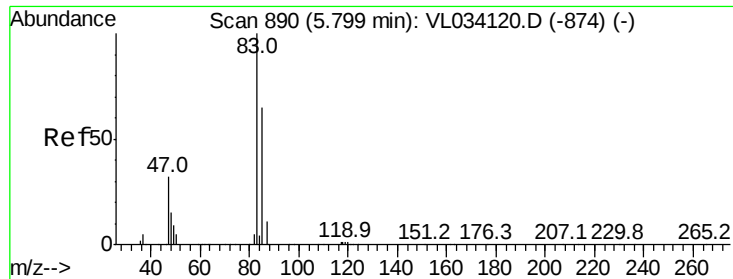
Delta R.T. 0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
73	100		
57	23.1	19.8	29.8





#29

Chloroform

Concen: 0.546 ppbv

RT: 5.79 min Scan# 886

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 103128

Ion Ratio Lower Upper

83 100

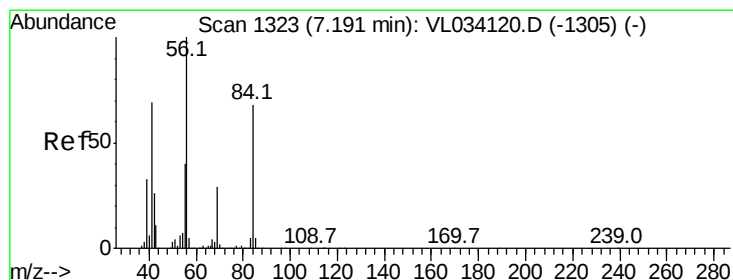
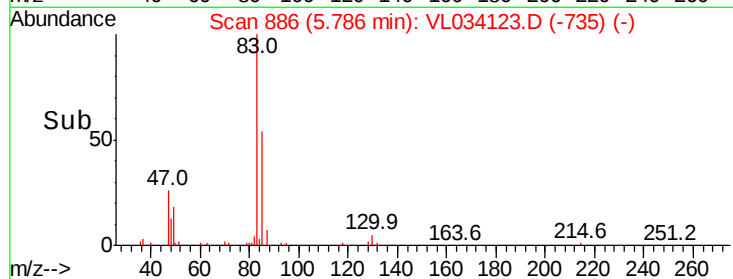
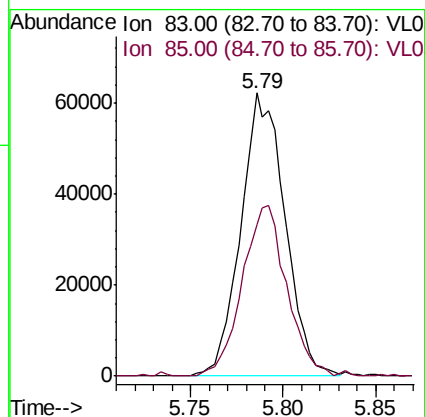
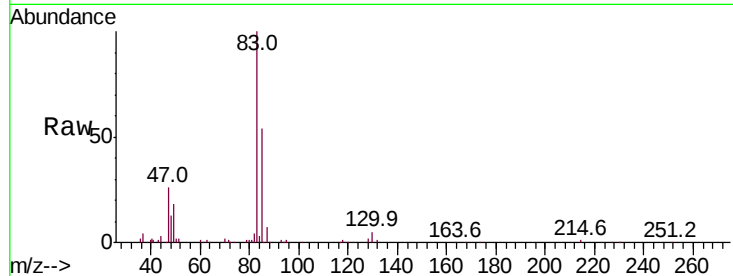
85 53.6 51.8 77.6

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#30

Cyclohexane

Concen: 0.521 ppbv

RT: 7.18 min Scan# 1321

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

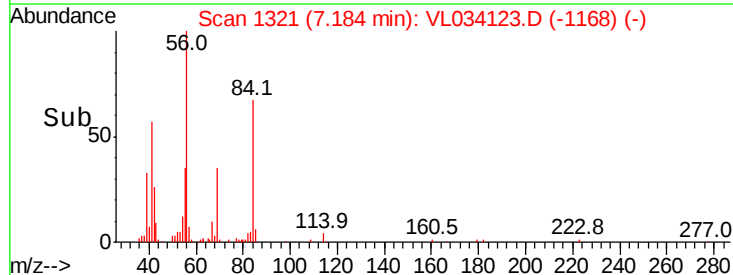
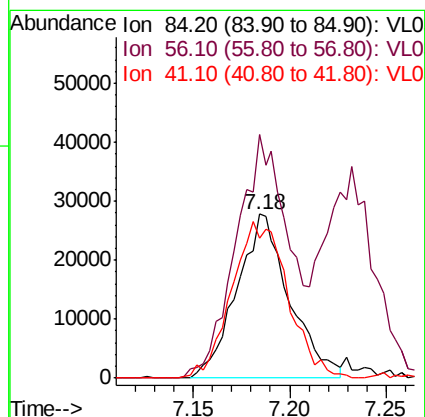
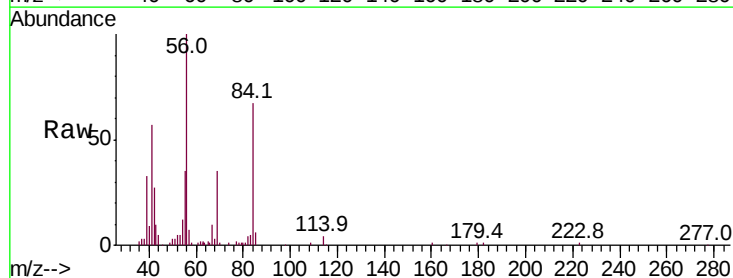
Tgt Ion: 84 Resp: 52729

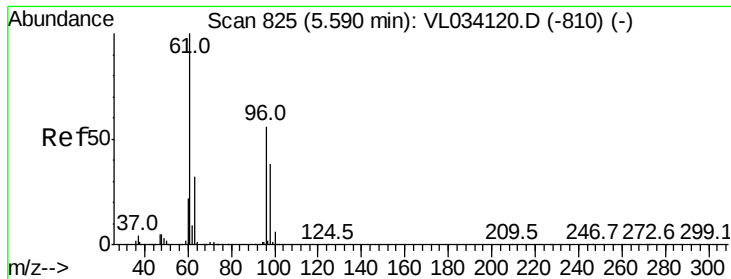
Ion Ratio Lower Upper

84 100

56 156.5 122.6 183.8

41 102.0 79.1 118.7





#31

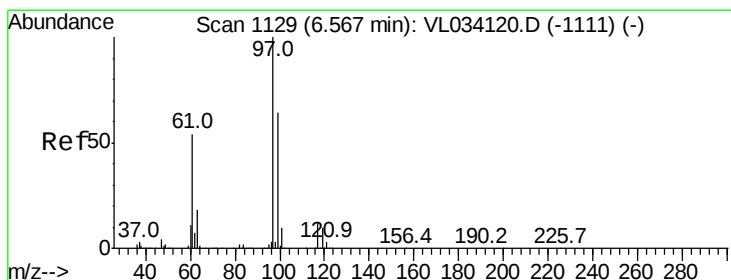
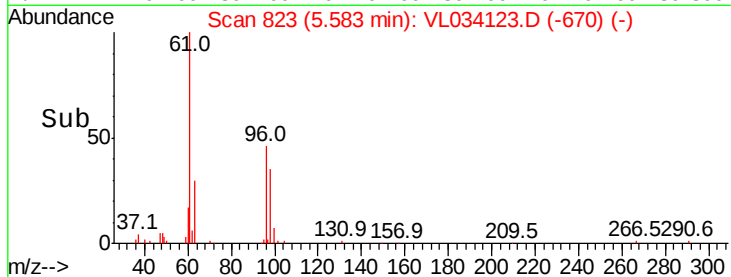
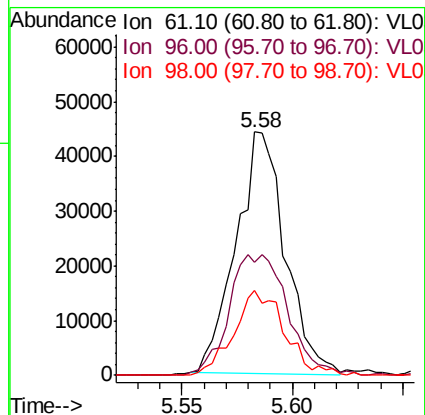
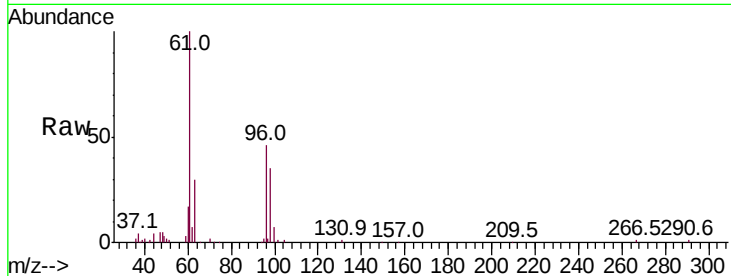
cis-1,2-Dichloroethene
Concen: 0.512 ppbv
RT: 5.58 min Scan# 823
Delta R.T. -0.01 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	45.4	44.4	66.6
98	35.2	30.0	45.0

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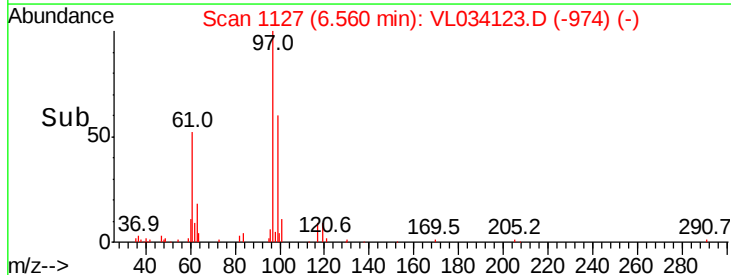
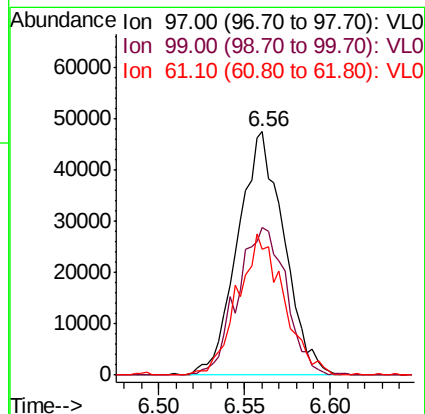
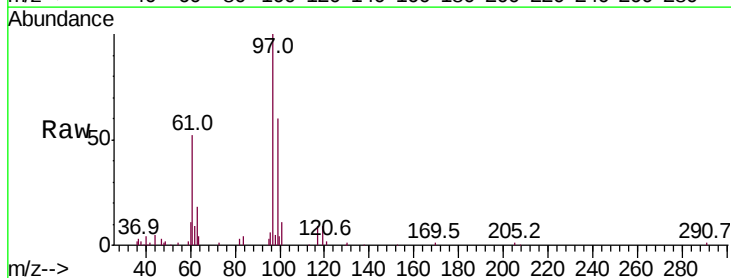
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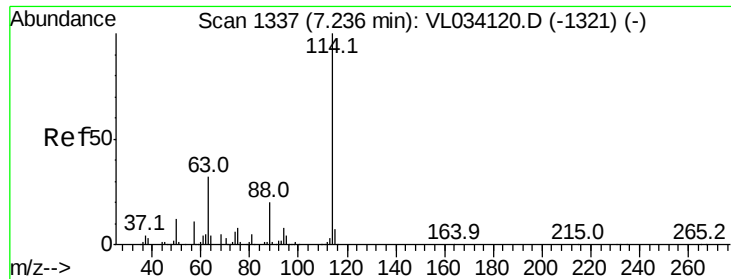


#32

1,1,1-Trichloroethane
Concen: 0.499 ppbv
RT: 6.56 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.7	77.5
61	57.7	44.0	66.0





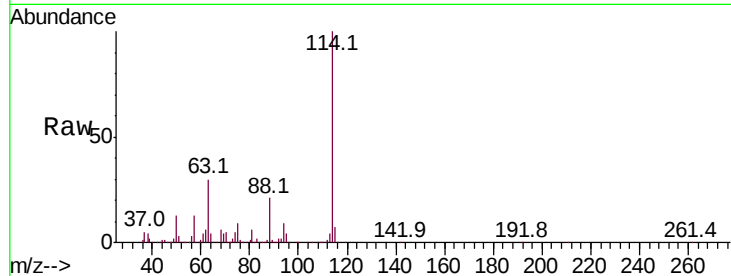
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1336
 Delta R.T. -0.00 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

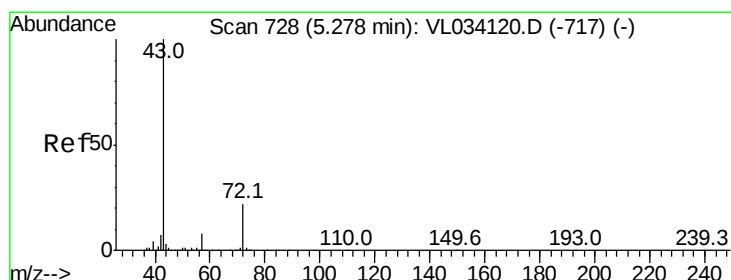
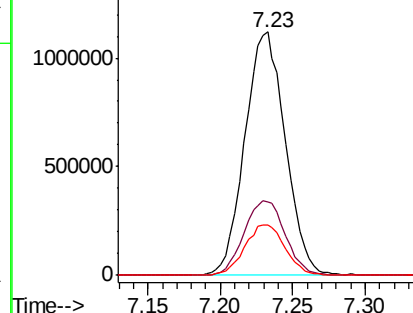
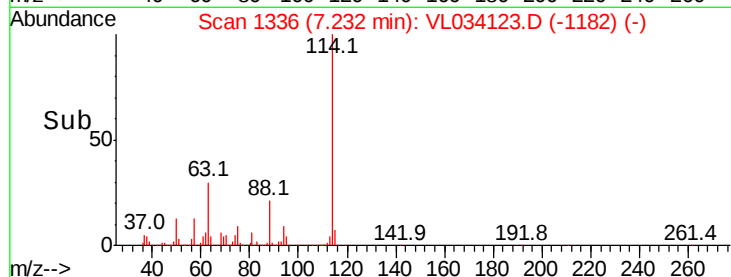
Tot Ion	Ratio	Lower	Upper
114	100		
63	31.3	25.5	38.3
88	20.8	16.8	25.2

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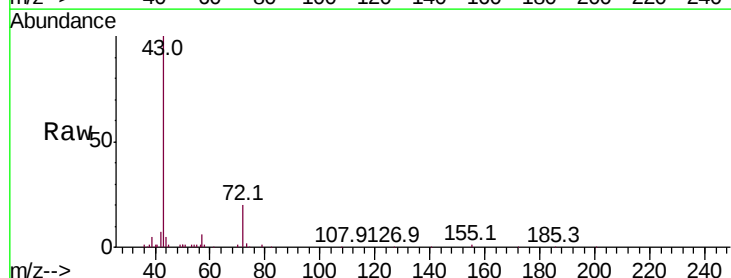


Abundance Ion 114.10 (113.80 to 114.80): VL0
 1500000 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

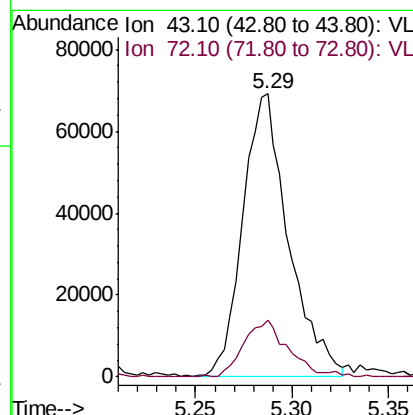
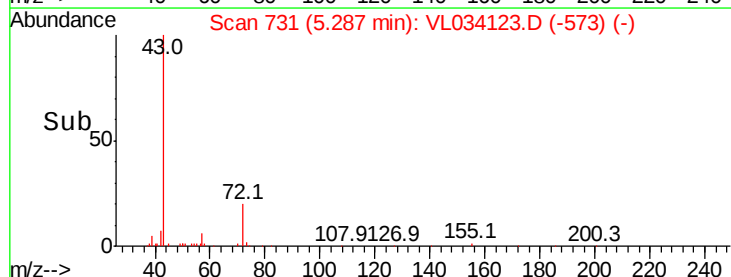


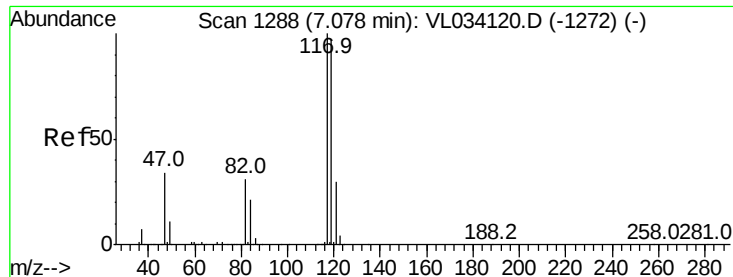
#34
 2-Butanone
 Concen: 0.546 ppbv
 RT: 5.29 min Scan# 731
 Delta R.T. 0.01 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.8	16.5	24.7



Abundance Ion 43.10 (42.80 to 43.80): VL0
 80000 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.493 ppbv

RT: 7.07 min Scan# 1285

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

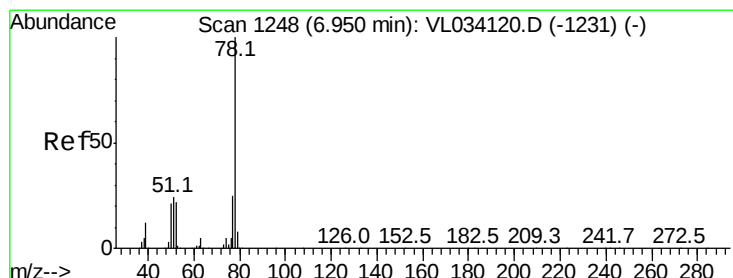
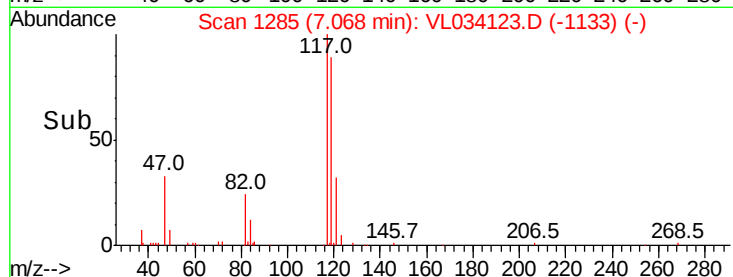
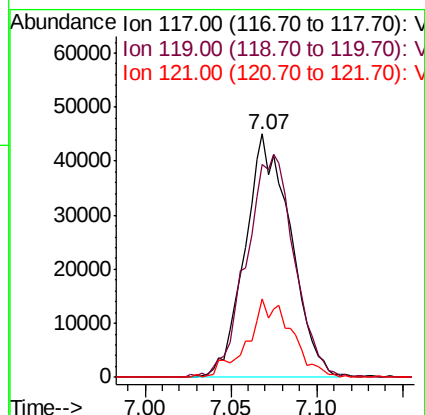
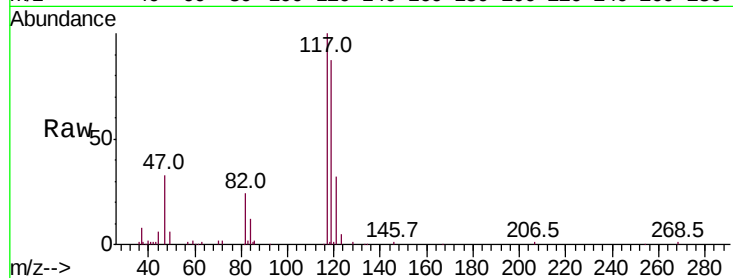
ClientSampleId :

VSTDIC0.5

Tot Ion:	117	Resp:	82893
Ion Ratio	Lower	Upper	
117	100		
119	86.6	77.2	115.8
121	32.2	24.2	36.4

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#36

Benzene

Concen: 0.542 ppbv

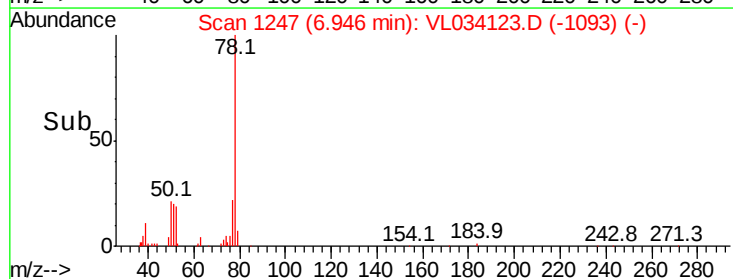
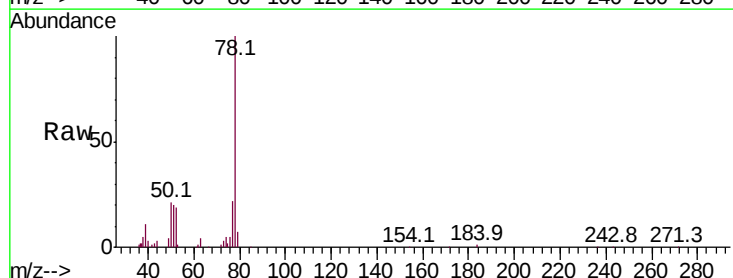
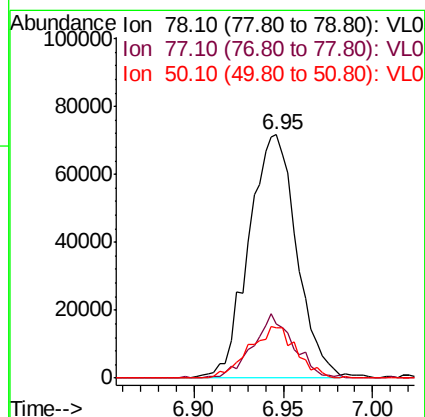
RT: 6.95 min Scan# 1247

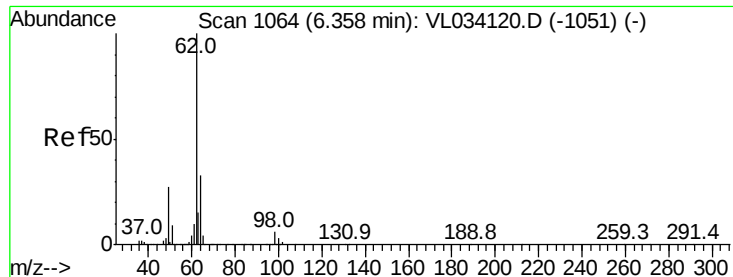
Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion:	78	Resp:	134590
Ion Ratio	Lower	Upper	
78	100		
77	21.8	20.3	30.5
50	20.7	16.9	25.3





#37

1,2-Dichloroethane

Concen: 0.545 ppbv

RT: 6.35 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VL034123.D

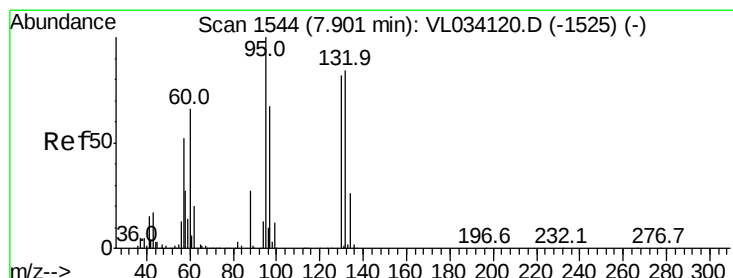
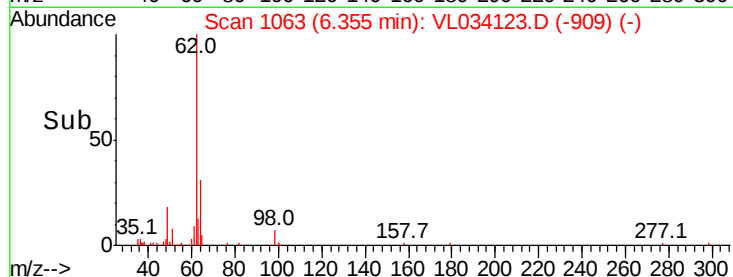
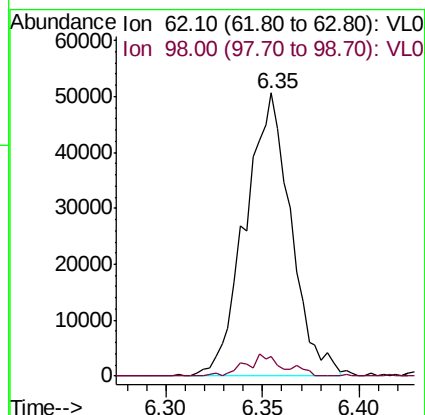
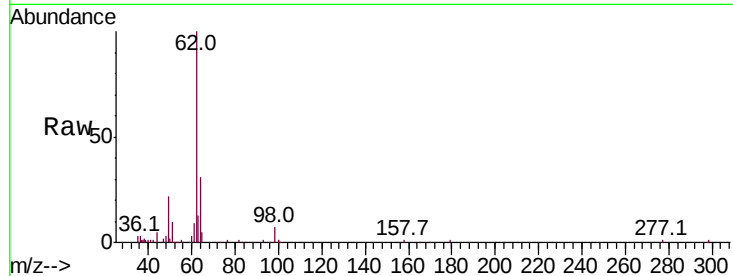
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp Lower	Upper
62	100		
98	6.4	4.4	6.6

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#38

Trichloroethene

Concen: 0.485 ppbv m

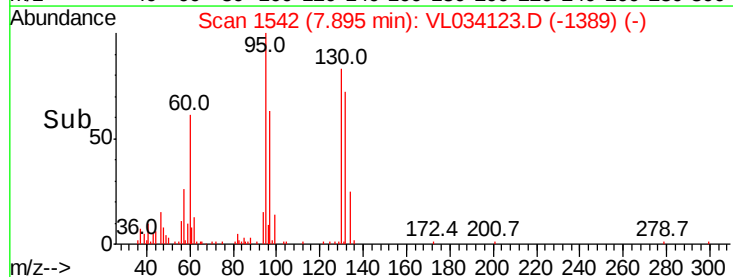
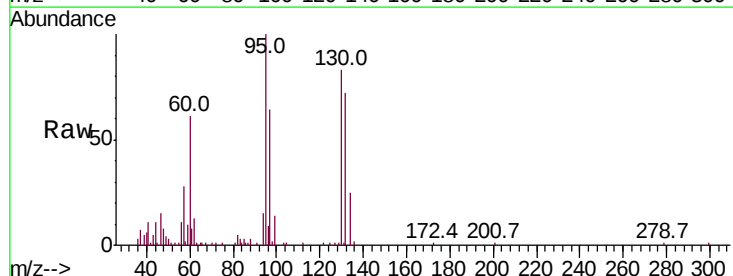
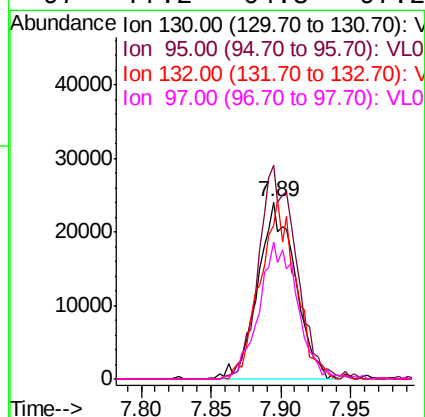
RT: 7.89 min Scan# 1542

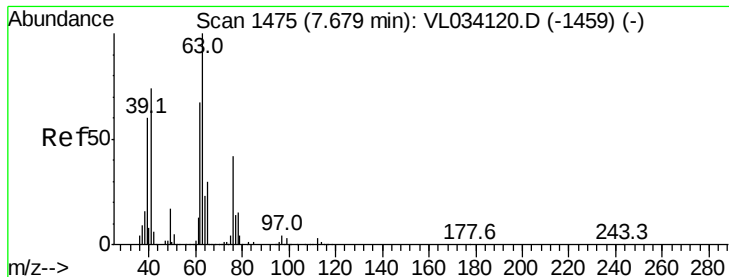
Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Resp Lower	Upper
130	100		
95	120.7	97.2	145.8
132	86.7	81.4	122.2
97	77.2	64.8	97.2





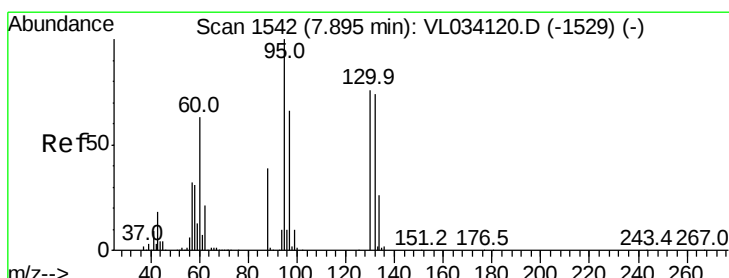
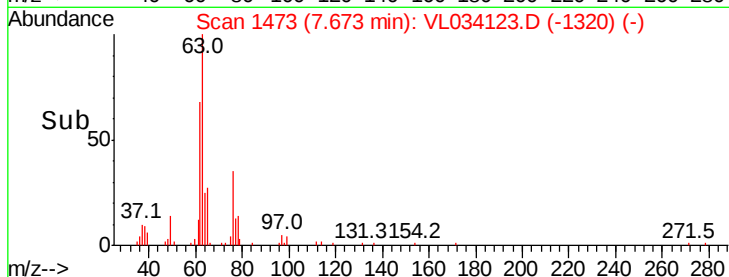
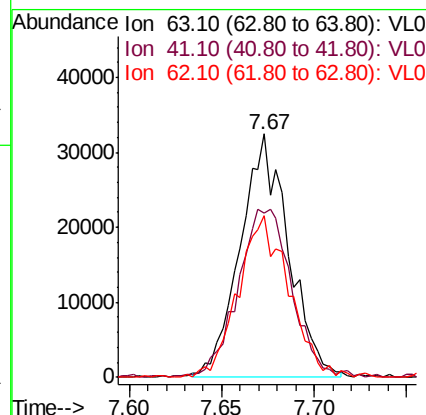
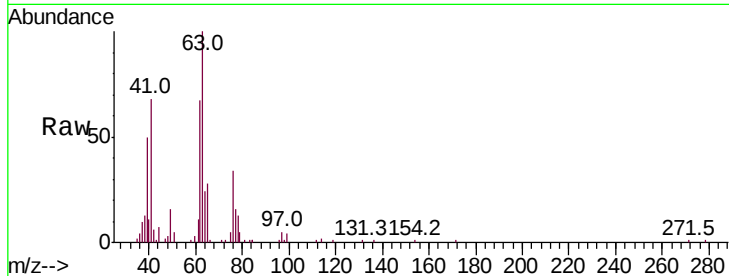
#39
 1,2-Dichloropropane
 Concen: 0.552 ppbv m
 RT: 7.67 min Scan# 1473
 Delta R.T. -0.01 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	67.6	59.3	88.9
62	66.6	53.8	80.6

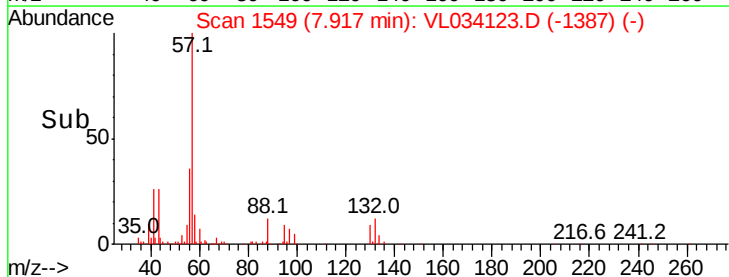
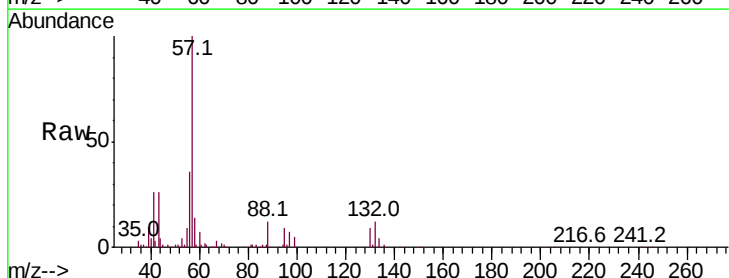
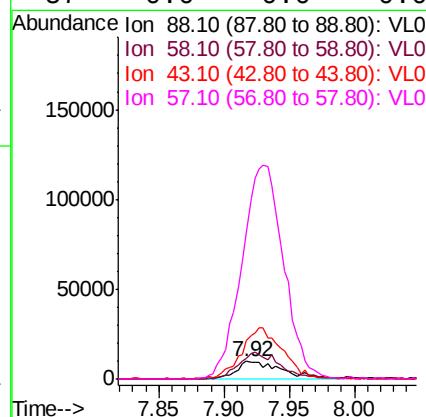
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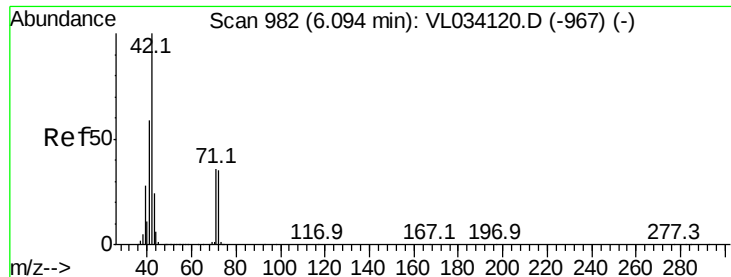
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#40
 1,4-Dioxane
 Concen: 0.618 ppbv m
 RT: 7.92 min Scan# 1549
 Delta R.T. 0.02 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	121.7	182.5#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.520 ppbv

RT: 6.11 min Scan# 988

Delta R.T. 0.02 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

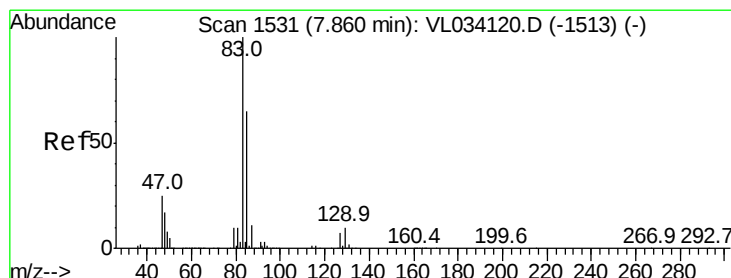
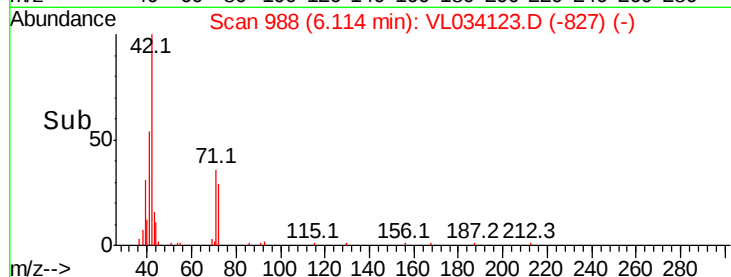
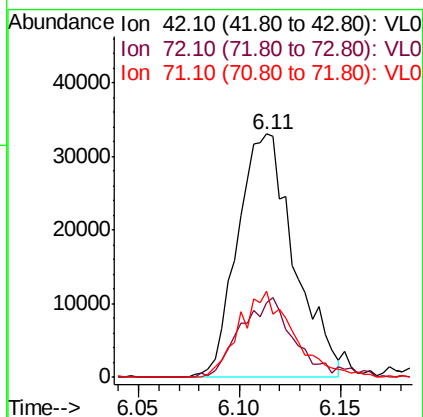
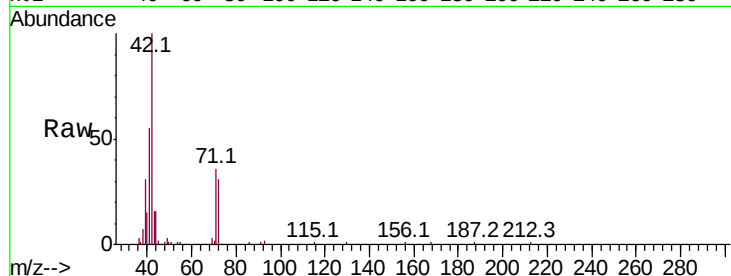
ClientSampleId :

VSTDIC0.5

Tot Ion:	42	Resp:	64847
Ion Ratio	Lower	Upper	
42	100		
72	32.3	27.7	41.5
71	34.0	26.7	40.1

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#42

Bromodichloromethane

Concen: 0.514 ppbv

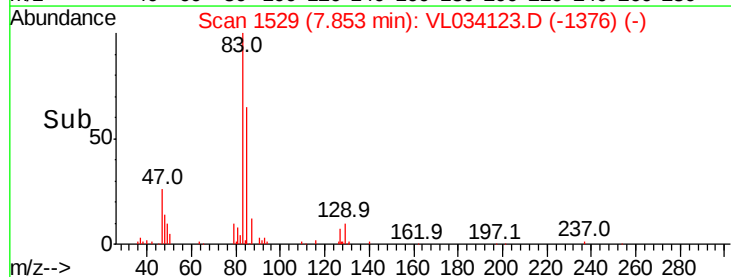
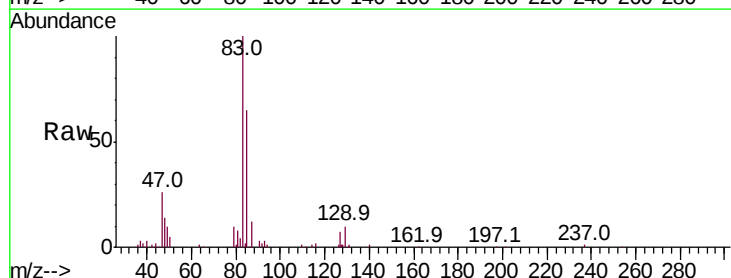
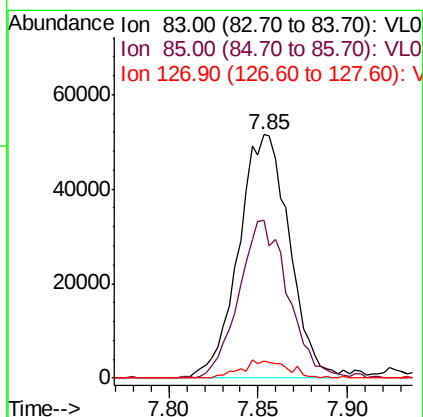
RT: 7.85 min Scan# 1529

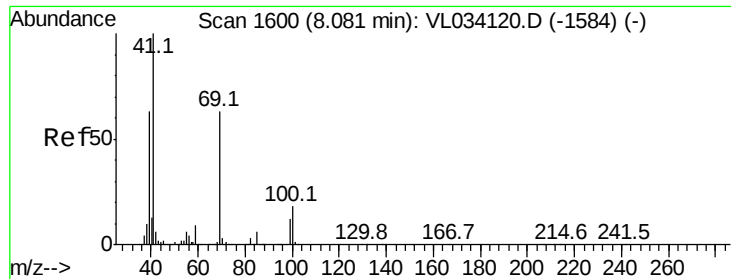
Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion:	83	Resp:	102226
Ion Ratio	Lower	Upper	
83	100		
85	64.3	51.6	77.4
127	7.2	5.4	8.0





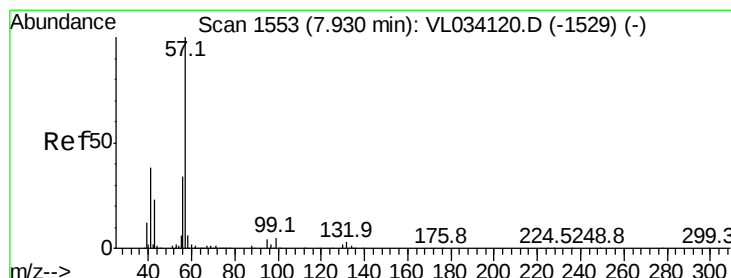
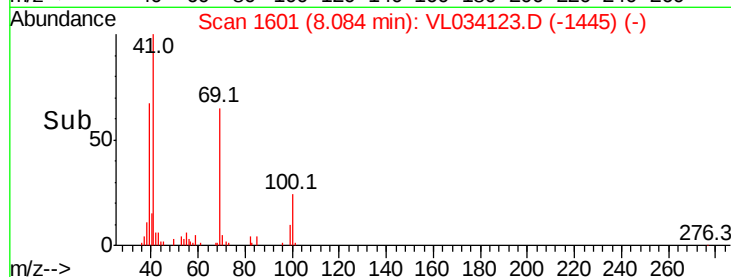
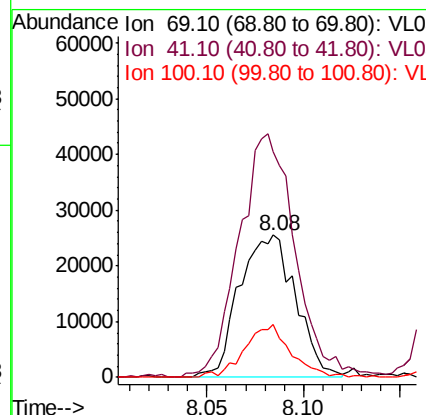
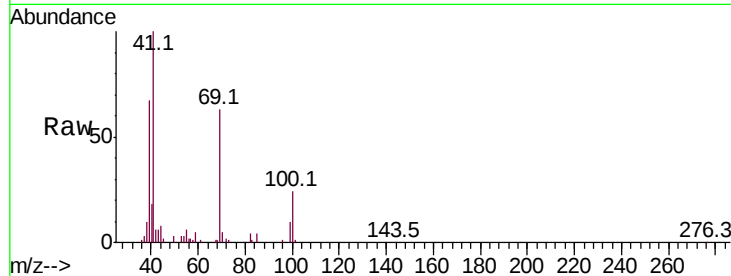
#43
Methvl Methacrylate
Concen: 0.502 ppbv
RT: 8.08 min Scan# 1601
Delta R.T. 0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	170.8	131.0	196.6
100	30.9	22.6	33.8

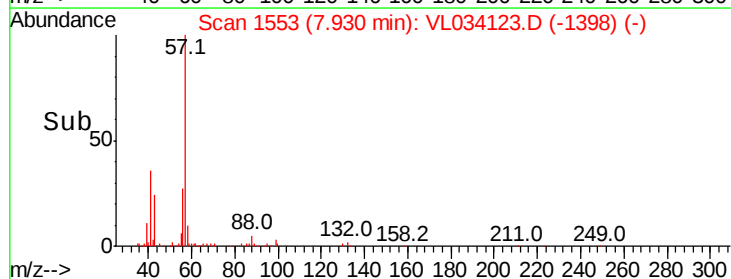
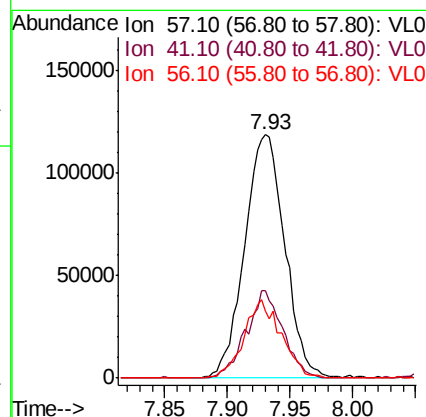
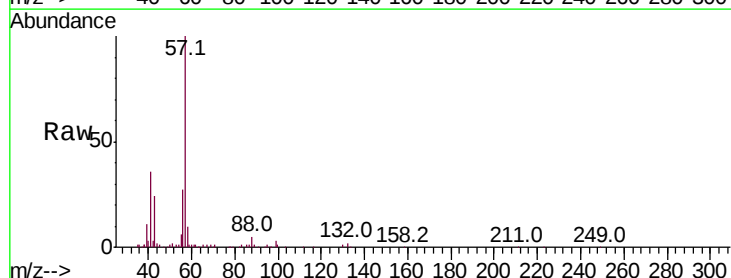
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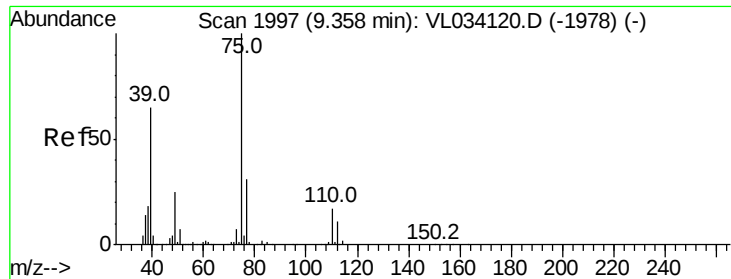
MMDadoda
9/12/2019 5:14:58 AM



#44
2,2,4-Trimethylpentane
Concen: 0.577 ppbv
RT: 7.93 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.2	28.4	42.6
56	30.1	26.3	39.5





#45

t-1,3-Dichloropropene

Concen: 0.423 ppbv

RT: 9.35 min Scan# 1996

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

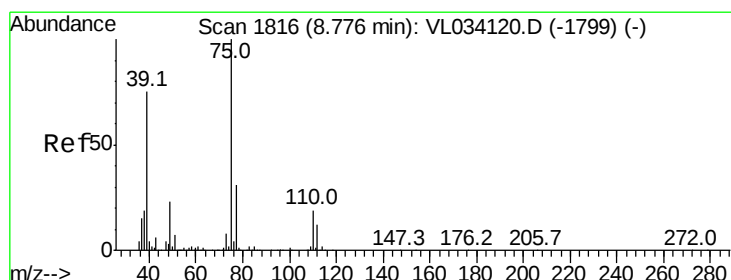
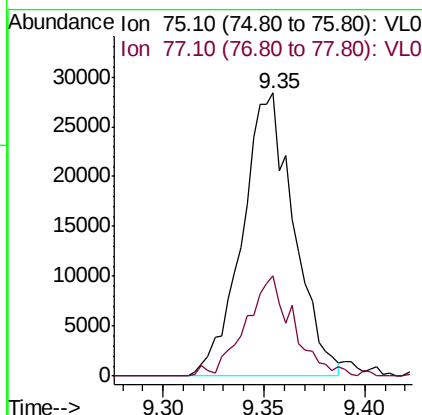
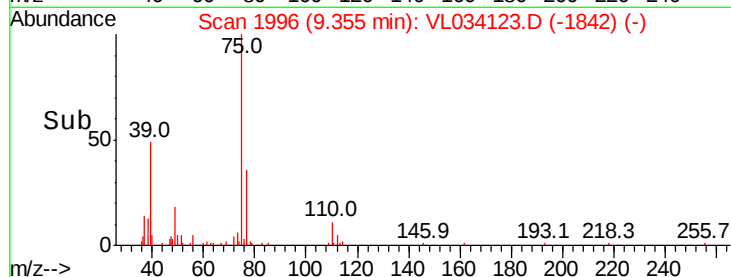
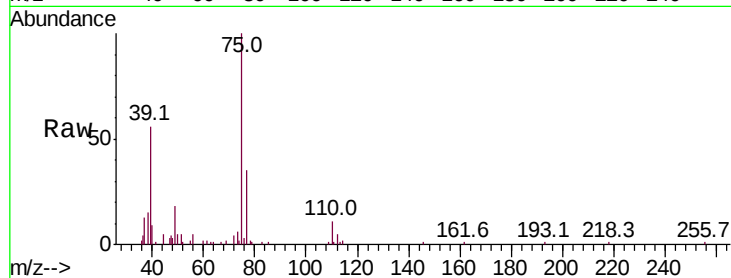
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 75 Resp: 50841

Ion	Ratio	Lower	Upper
75	100		
77	35.4	24.6	36.8

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#46

cis-1,3-Dichloropropene

Concen: 0.467 ppbv

RT: 8.77 min Scan# 1815

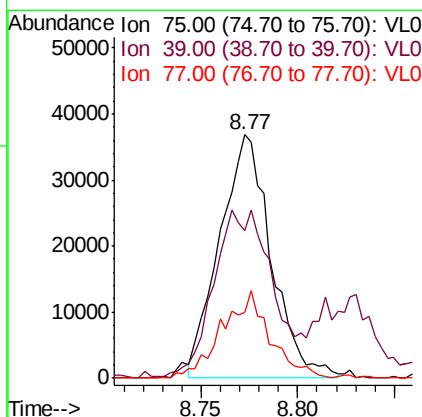
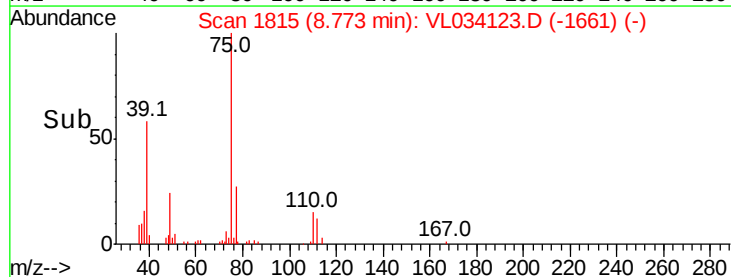
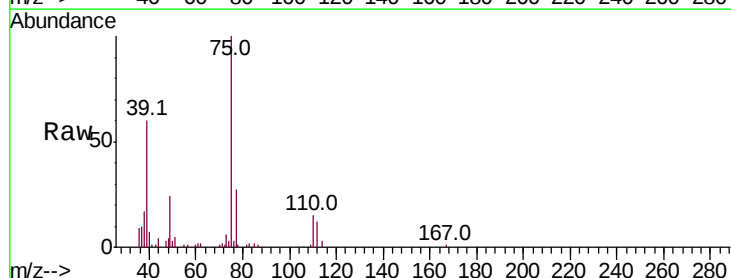
Delta R.T. -0.00 min

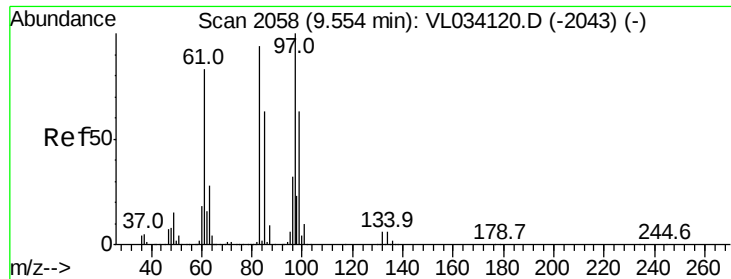
Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion: 75 Resp: 68374

Ion	Ratio	Lower	Upper
75	100		
39	55.4	60.0	90.0#
77	26.6	24.8	37.2





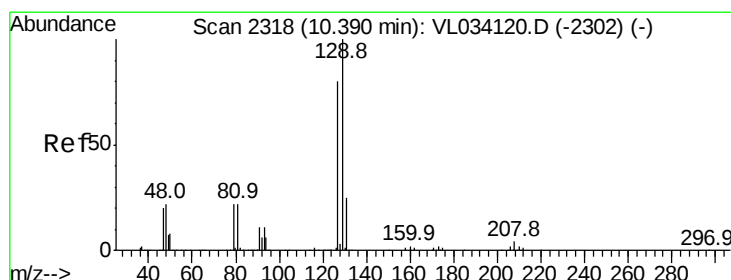
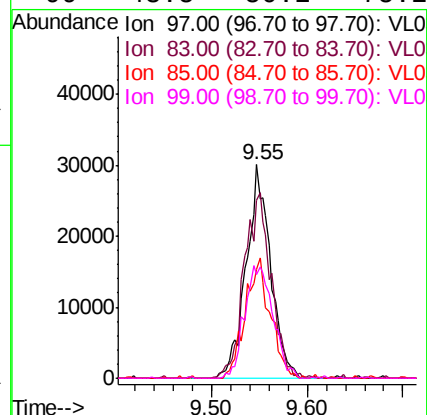
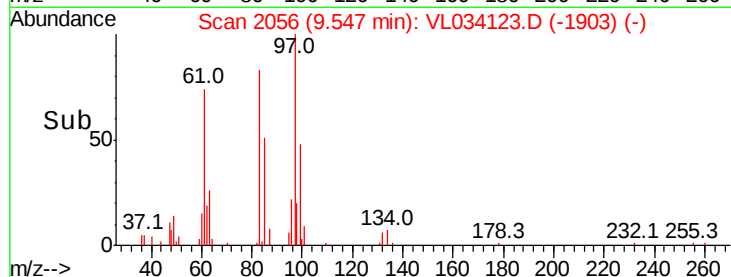
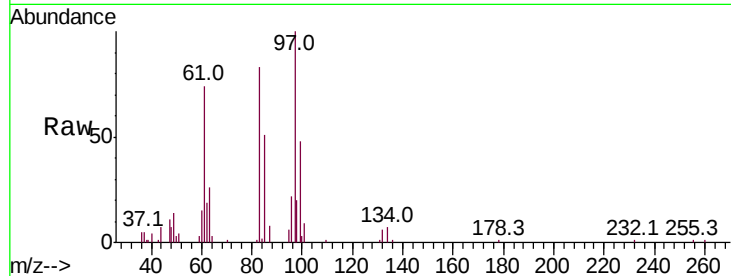
#47
 1,1,2-Trichloroethane
 Concen: 0.550 ppbv m
 RT: 9.55 min Scan# 2056
 Delta R.T. -0.01 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
97	100	53196		
83	83.2	74.9	112.3	
85	50.9	50.6	75.8	
99	48.5	50.2	75.2#	

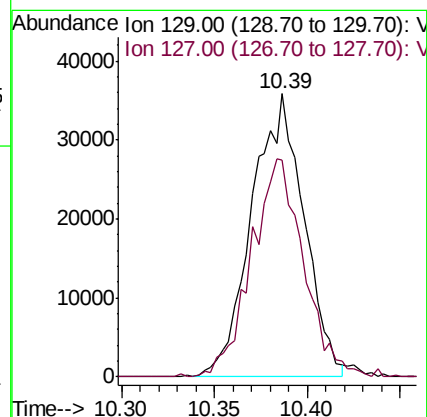
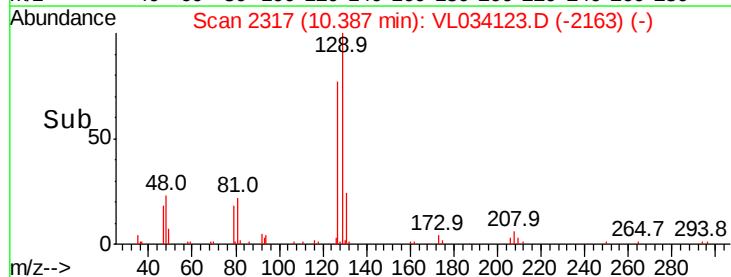
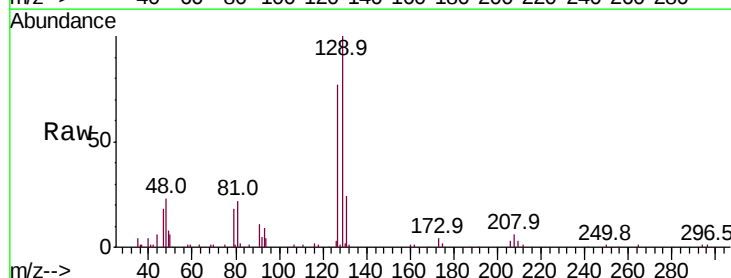
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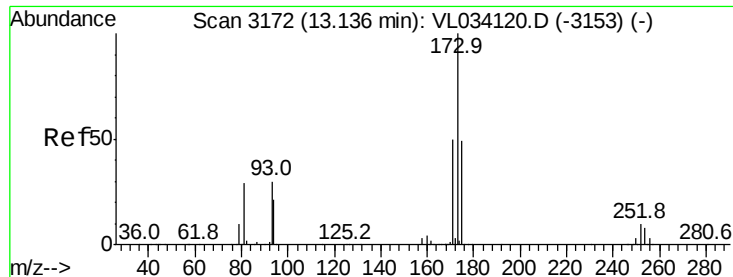
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#48
 Dibromochloromethane
 Concen: 0.484 ppbv
 RT: 10.39 min Scan# 2317
 Delta R.T. -0.00 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Resp	Lower	Upper
129	100	69918		
127	77.7	40.2	120.6	





#49

Bromoform

Concen: 0.463 ppbv m

RT: 13.13 min Scan# 3171

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:173 Resp: 58570

Ion Ratio Lower Upper

173 100

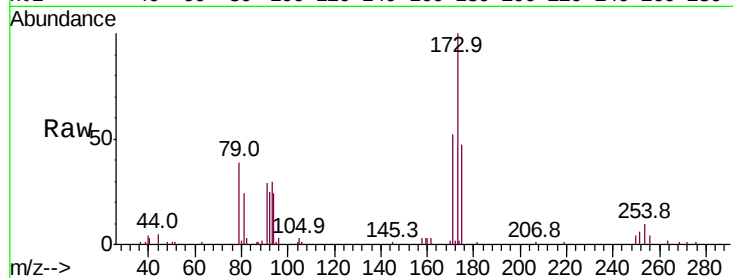
175 48.3 40.0 60.0

171 51.8 42.2 63.2

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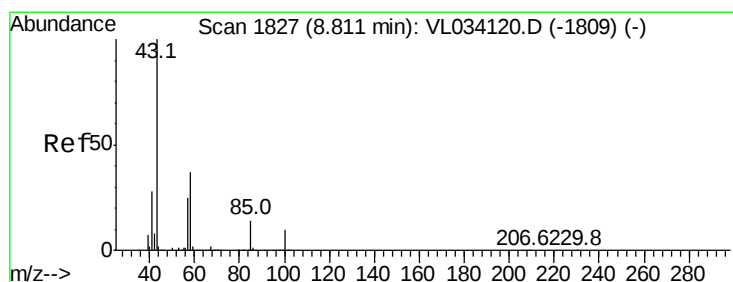
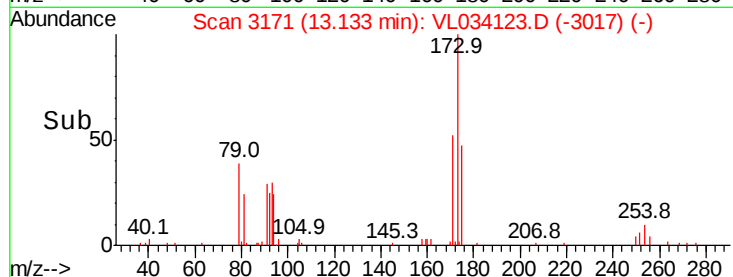
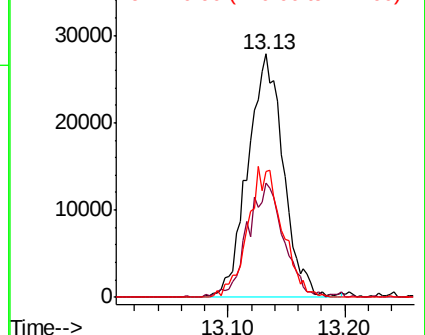
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.557 ppbv

RT: 8.82 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VL034123.D

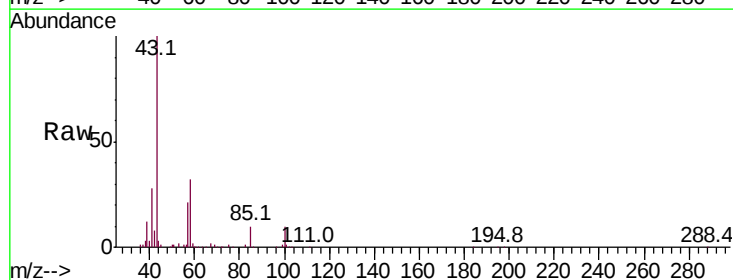
Acq: 5 Sep 2019 4:27

Tgt Ion: 43 Resp: 177732

Ion Ratio Lower Upper

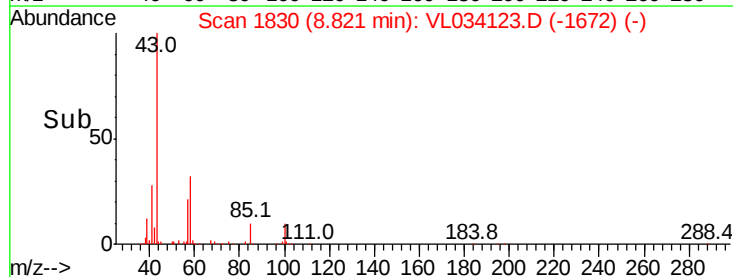
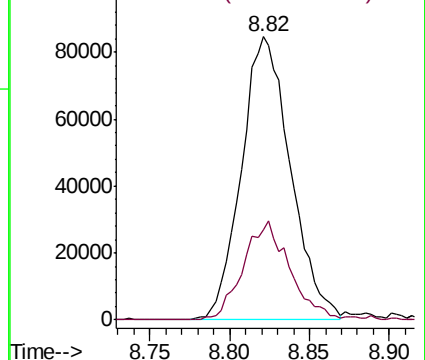
43 100

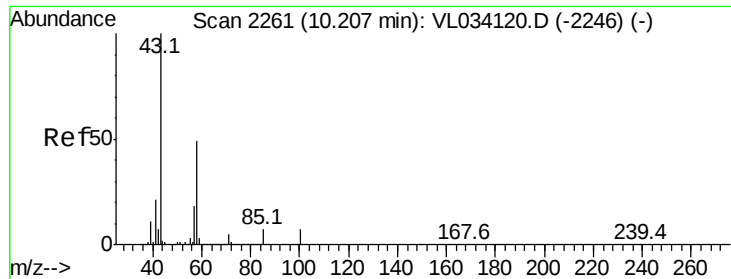
58 33.3 28.5 42.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





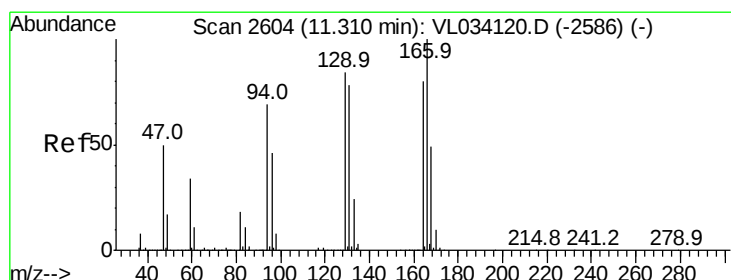
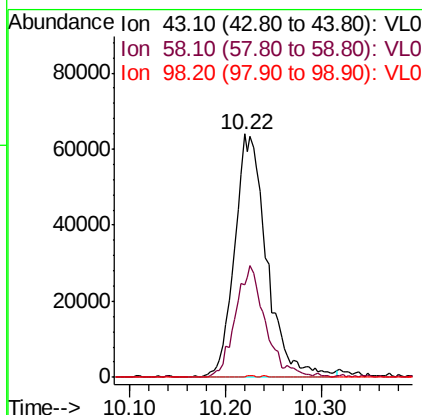
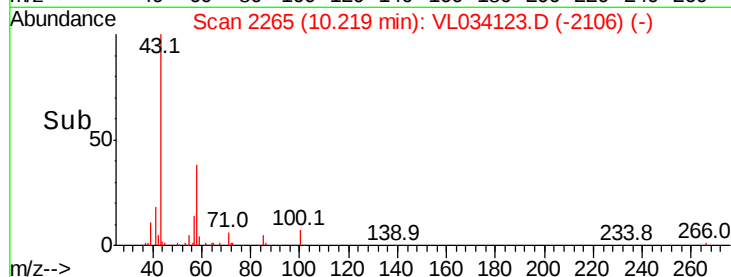
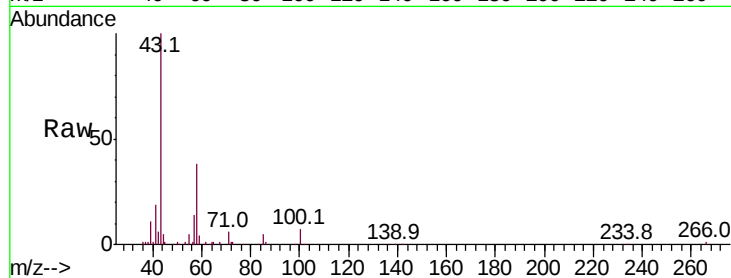
#51
2-Hexanone
Concen: 0.547 ppbv m
RT: 10.22 min Scan# 2265
Delta R.T. 0.01 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	38.2	57.2#
98	0.0	0.1	0.1#

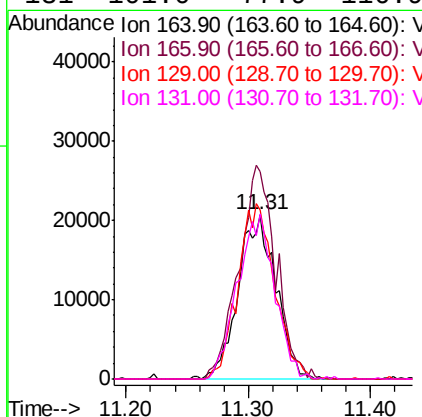
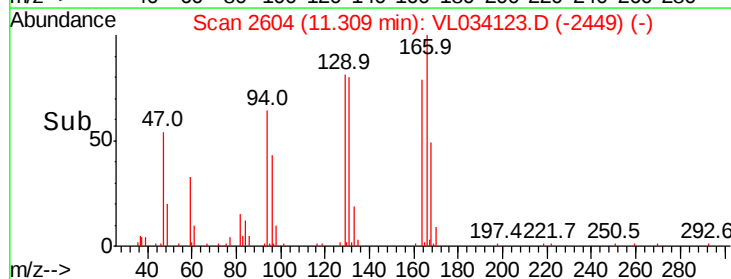
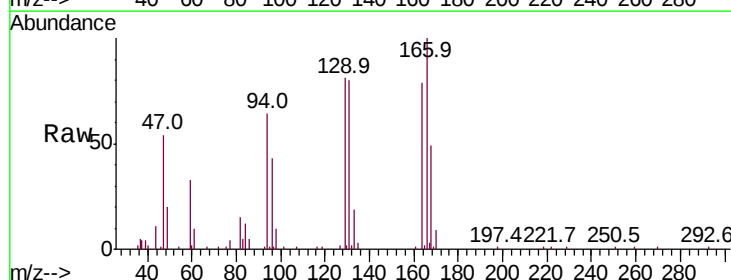
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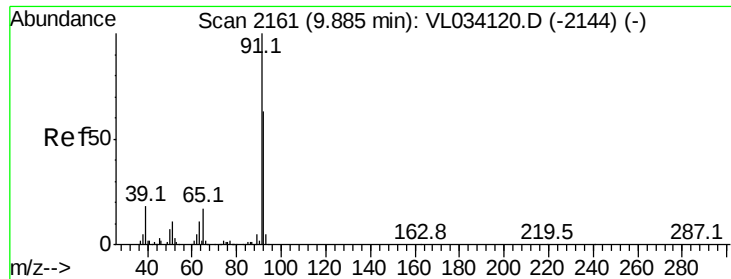
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#52
Tetrachloroethene
Concen: 0.511 ppbv m
RT: 11.31 min Scan# 2604
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
164	100		
166	126.7	99.5	149.3
129	102.9	83.6	125.4
131	101.0	77.9	116.9





#53

Toluene

Concen: 0.551 ppbv

RT: 9.88 min Scan# 2160

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 151399

Ion Ratio Lower Upper

91 100

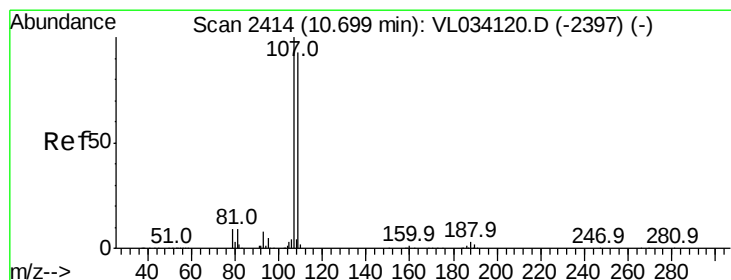
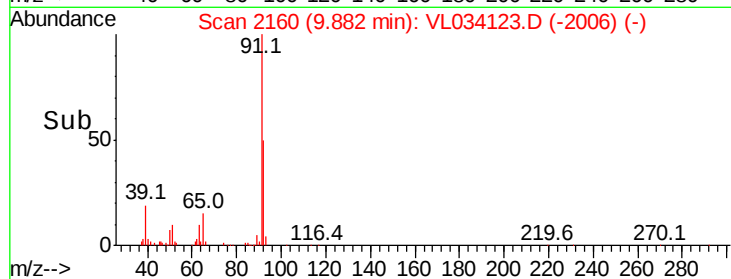
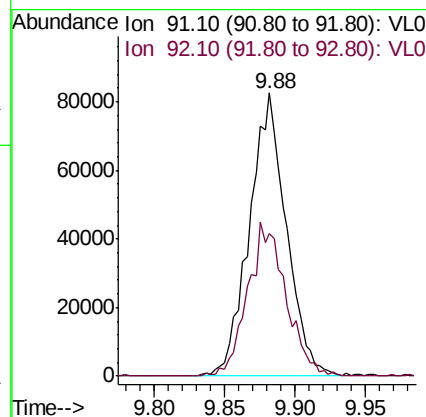
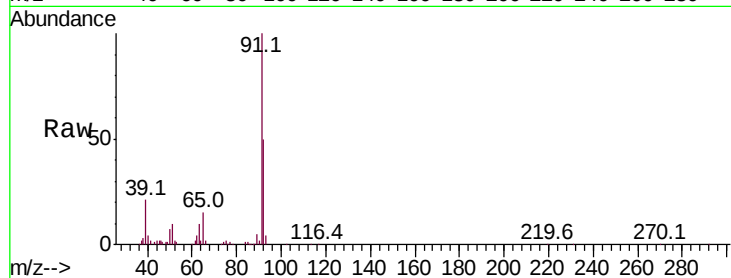
92 56.1 49.3 73.9

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#54

1,2-Dibromoethane

Concen: 0.538 ppbv m

RT: 10.69 min Scan# 2412

Delta R.T. -0.01 min

Lab File: VL034123.D

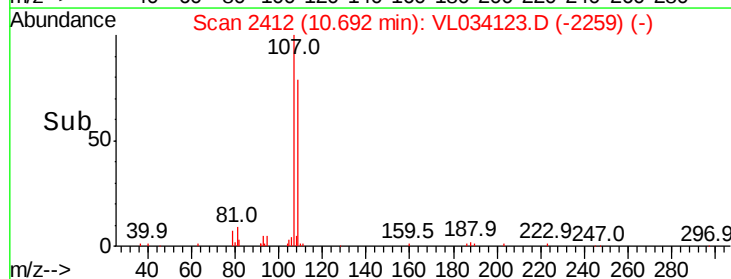
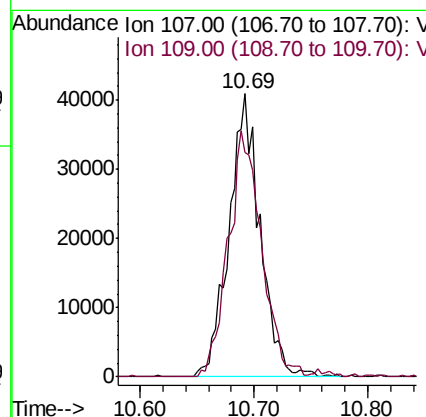
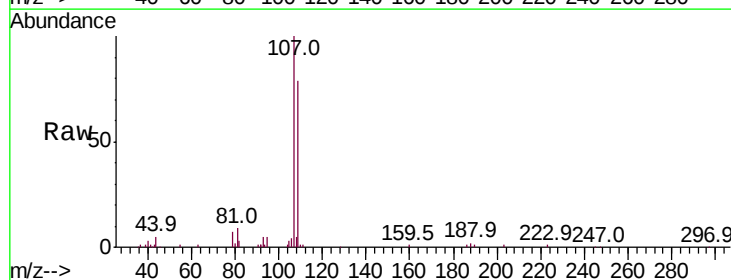
Acq: 5 Sep 2019 4:27

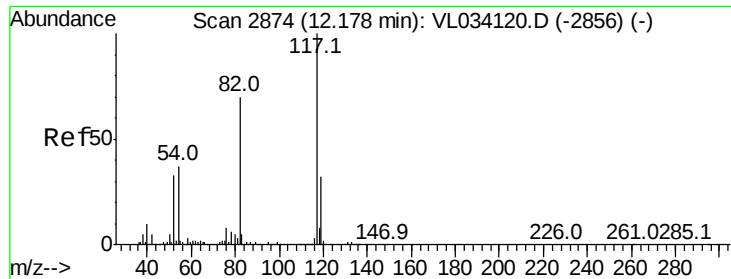
Tgt Ion: 107 Resp: 77460

Ion Ratio Lower Upper

107 100

109 79.2 74.5 111.7





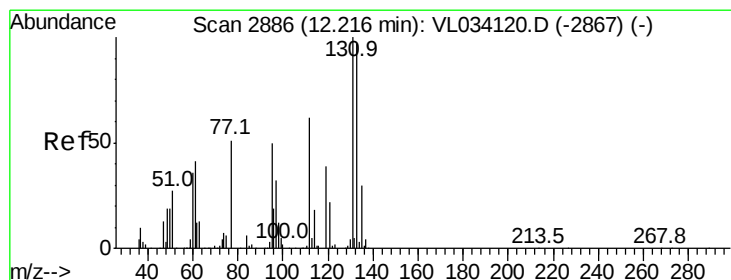
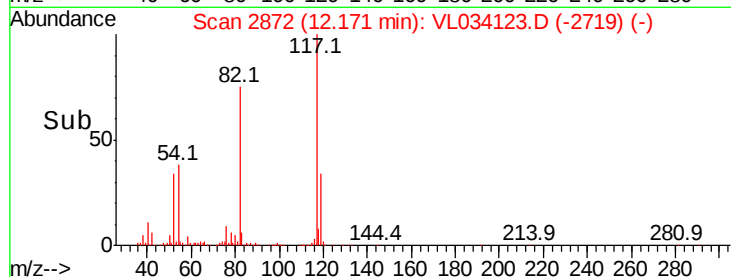
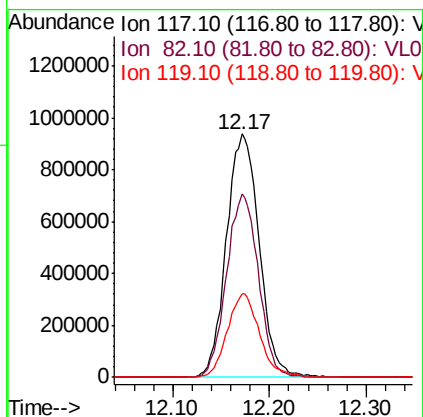
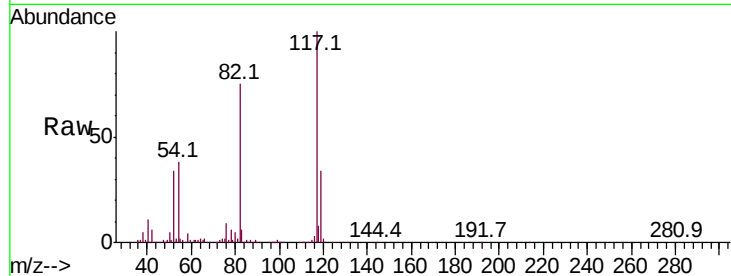
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.17 min Scan# 2872
Delta R.T. -0.01 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
82	73.5	55.8	83.6
119	34.1	43.1	64.7#

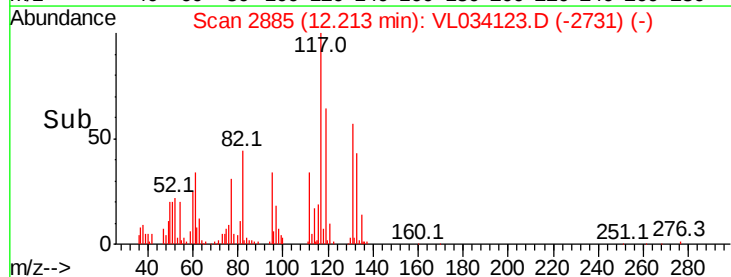
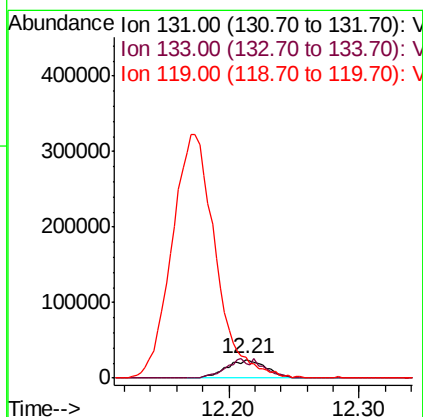
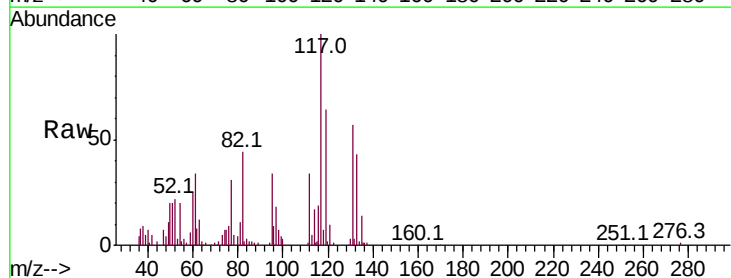
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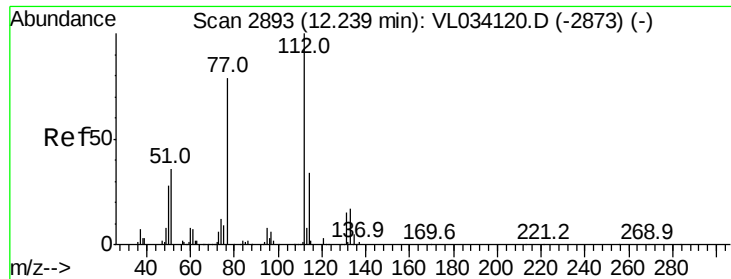
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.541 ppbv m
RT: 12.21 min Scan# 2885
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
131	100		
133	101.2	75.8	113.6
119	0.0	114.7	172.1#





#57

Chlorobenzene

Concen: 0.590 ppbv

RT: 12.23 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

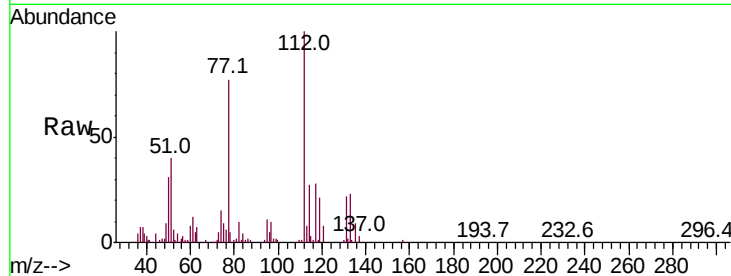
ClientSampleId :

VSTDIC0.5

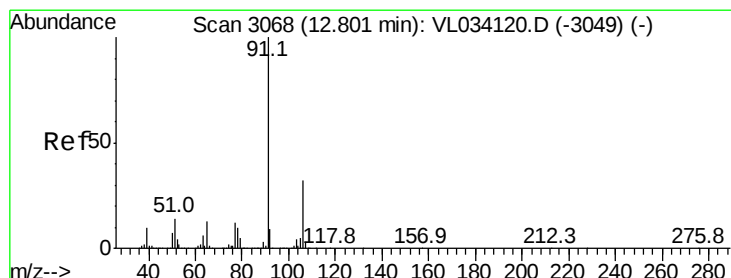
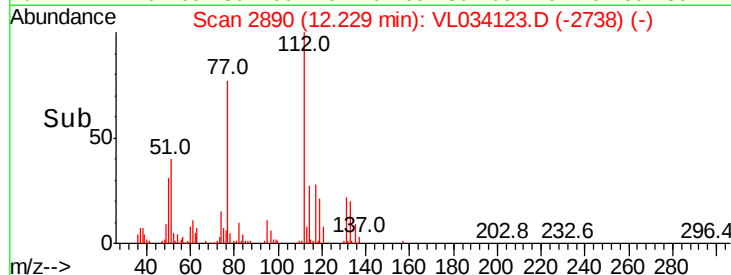
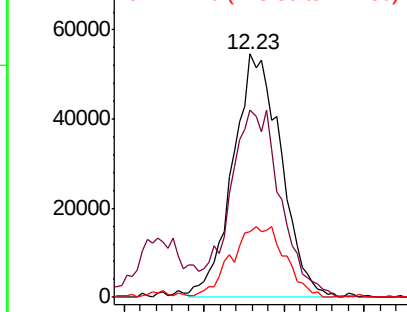
Tot Ion:	112	Resp:	112056
Ion Ratio	Lower	Upper	
112	100		
77	76.9	64.4	96.6
114	26.3	30.3	37.1#

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Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 0.570 ppbv m

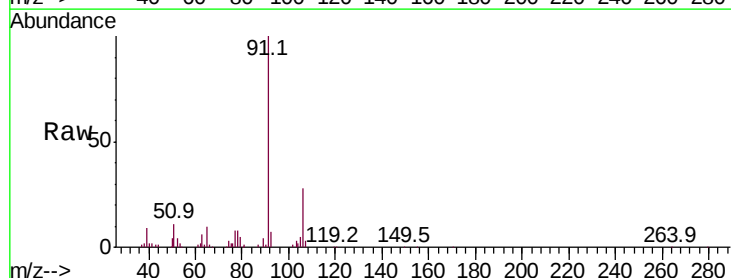
RT: 12.80 min Scan# 3067

Delta R.T. -0.00 min

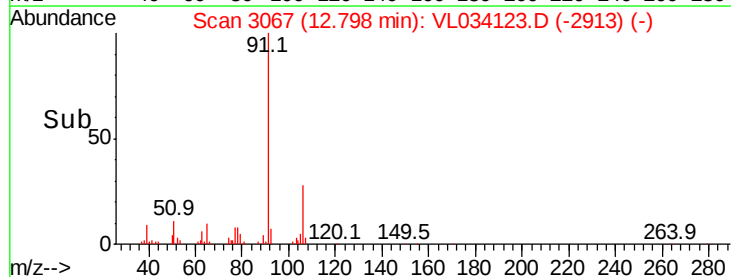
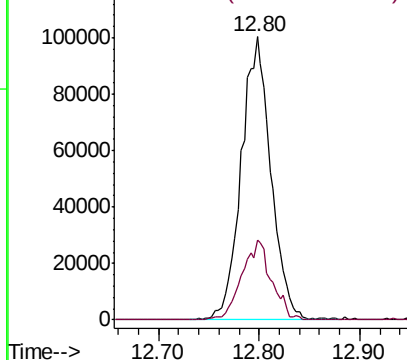
Lab File: VL034123.D

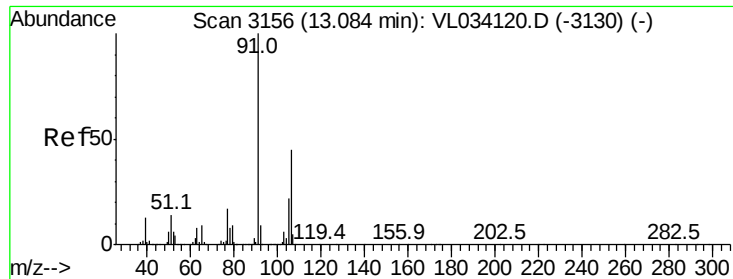
Acq: 5 Sep 2019 4:27

Tgt Ion:	91	Resp:	206110
Ion Ratio	Lower	Upper	
91	100		
106	28.2	25.3	37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





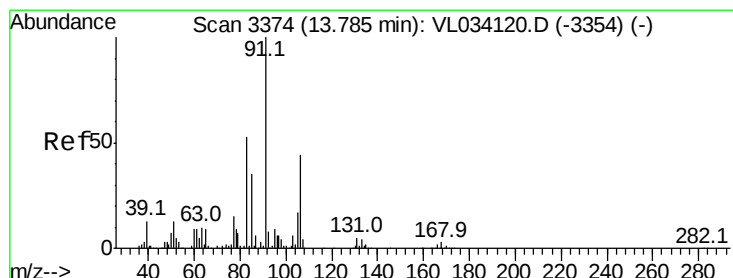
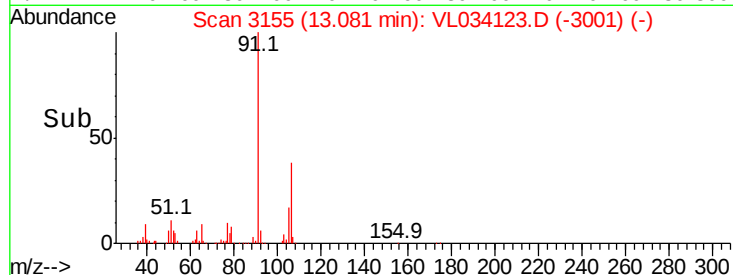
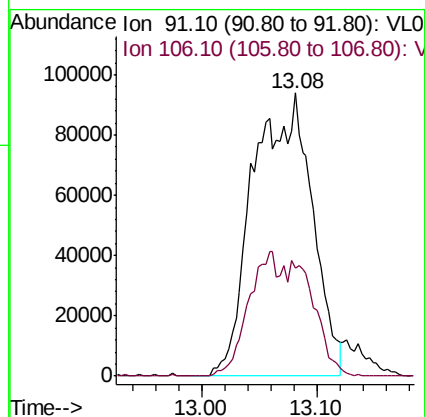
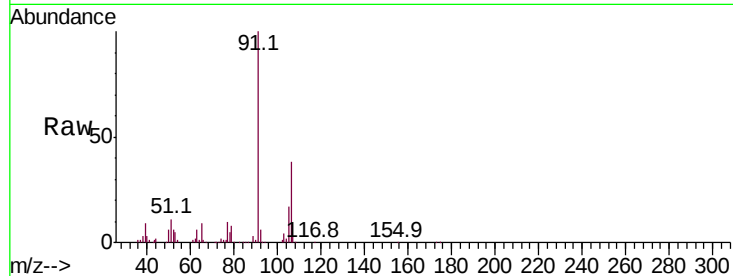
#59
m/p-Xylene
Concen: 1.130 ppbv m
RT: 13.08 min Scan# 3155
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 332616
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

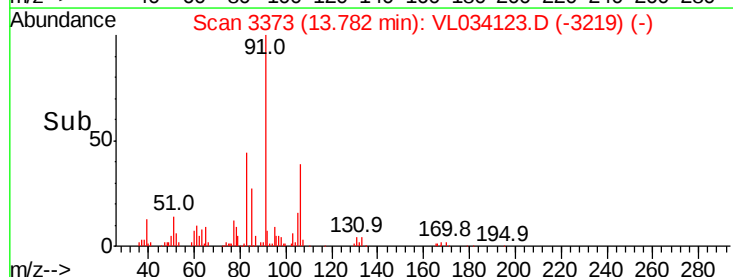
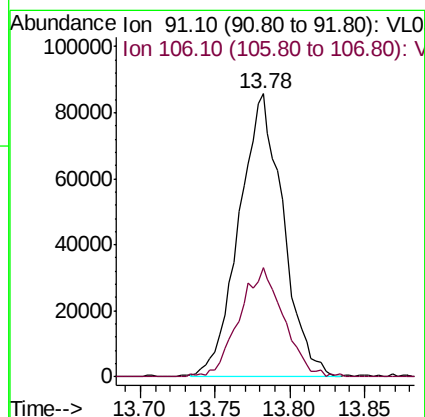
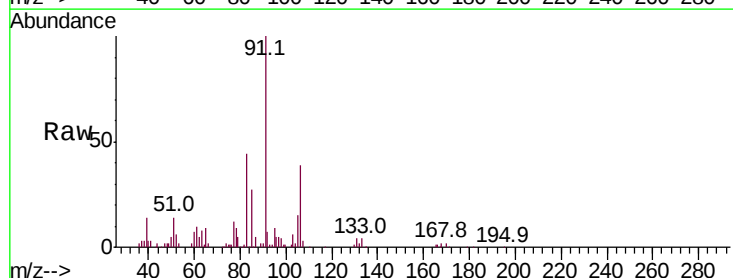
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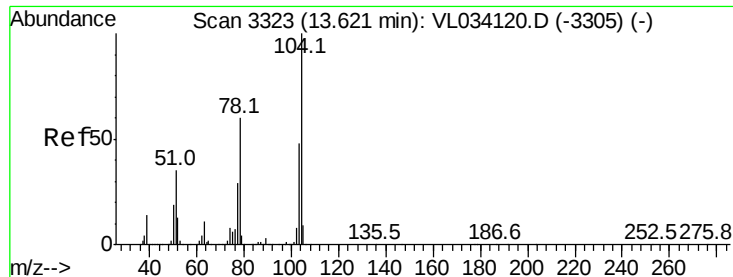
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#60
o-Xylene
Concen: 0.598 ppbv
RT: 13.78 min Scan# 3373
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion: 91 Resp: 175632
Ion Ratio Lower Upper
91 100
106 39.0 21.4 64.3





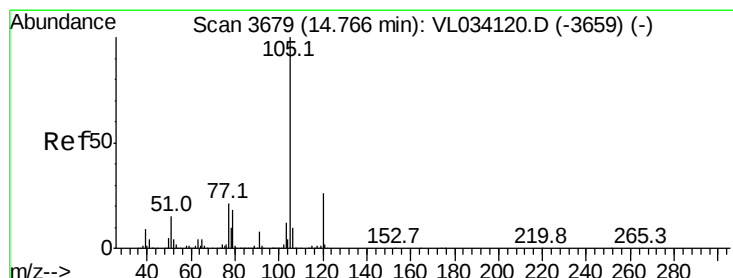
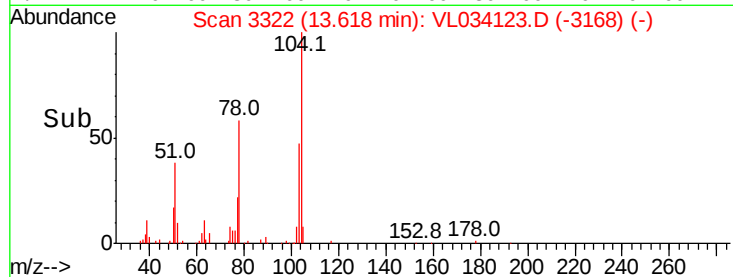
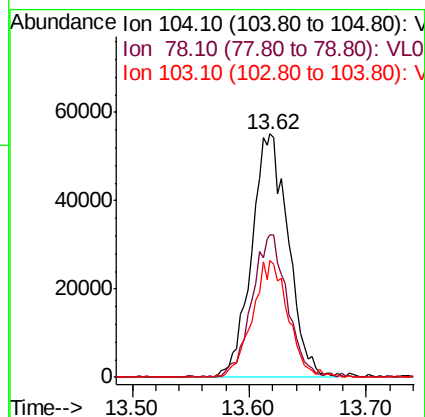
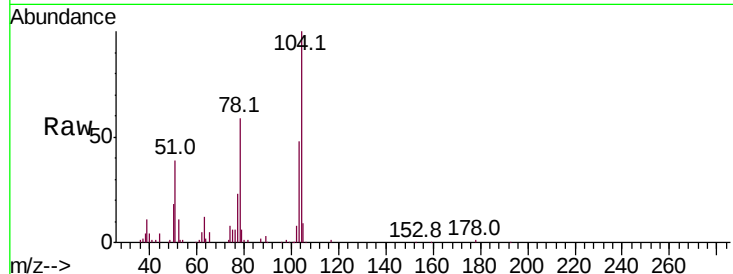
#61
Stvrene
Concen: 0.550 ppbv m
RT: 13.62 min Scan# 3322
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	47.8	71.6#
103	0.0	38.7	58.1#

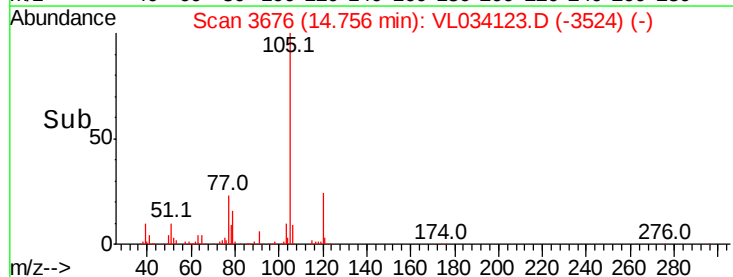
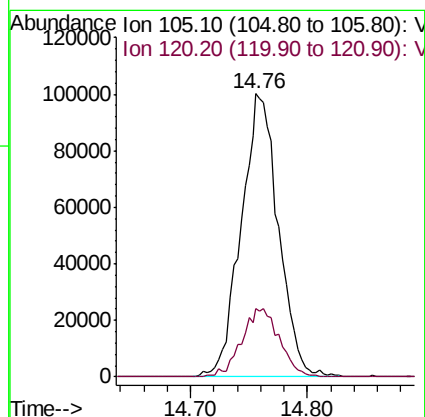
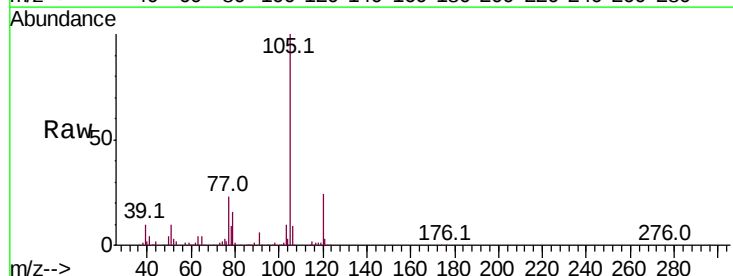
Manual Integrations
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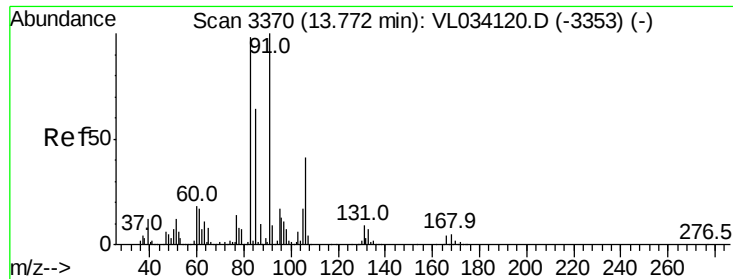
MMDadoda
9/12/2019 5:14:58 AM



#62
Isopropylbenzene
Concen: 0.582 ppbv m
RT: 14.76 min Scan# 3676
Delta R.T. -0.01 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.4	20.6	31.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.540 ppbv m

RT: 13.77 min Scan# 3369

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

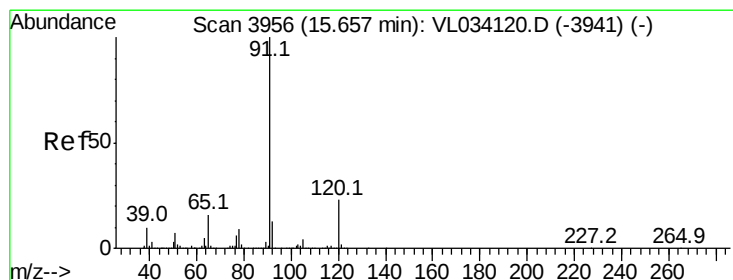
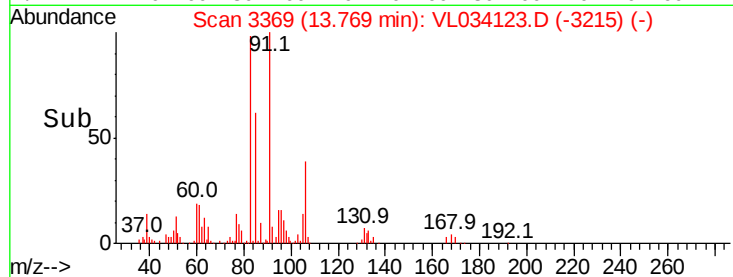
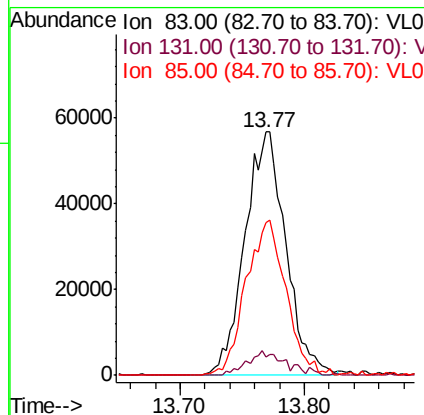
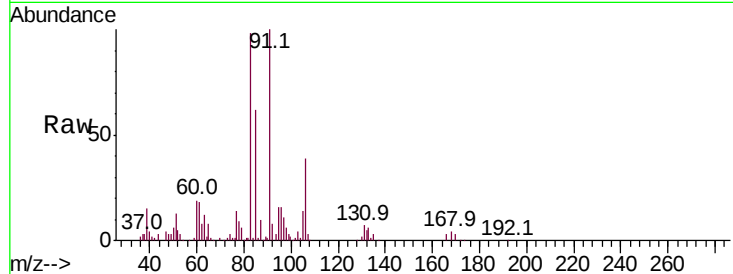
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	129784
Ion Ratio	Lower	Upper	
83	100		
131	9.5	4.3	12.8
85	62.7	32.5	97.5

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#64

n-propylbenzene

Concen: 0.519 ppbv

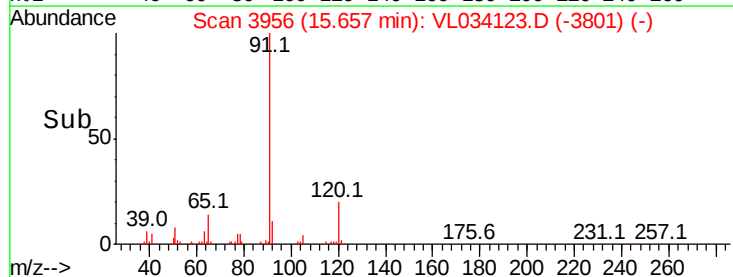
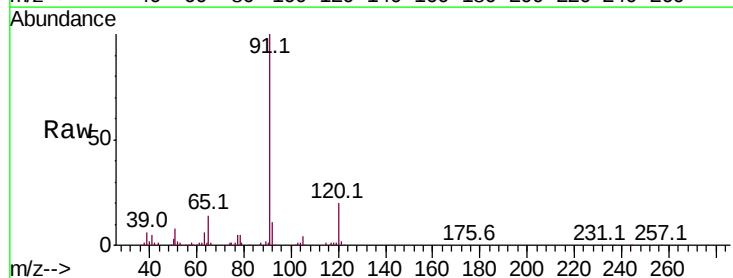
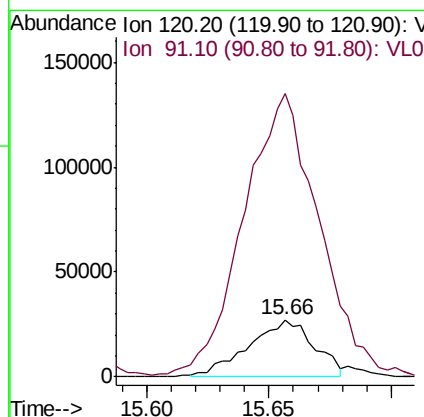
RT: 15.66 min Scan# 3956

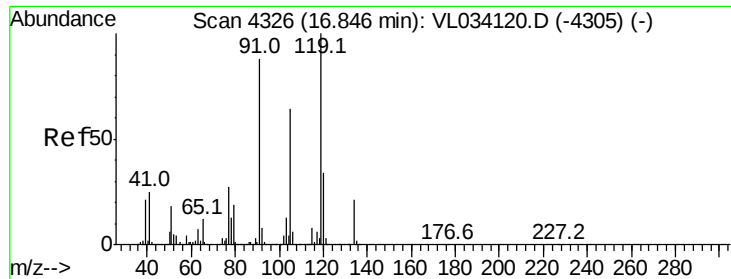
Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion:	120	Resp:	50460
Ion Ratio	Lower	Upper	
120	100		
91	577.2	376.8	565.2#





#65

tert-Butylbenzene

Concen: 0.593 ppbv m

RT: 16.84 min Scan# 4323

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

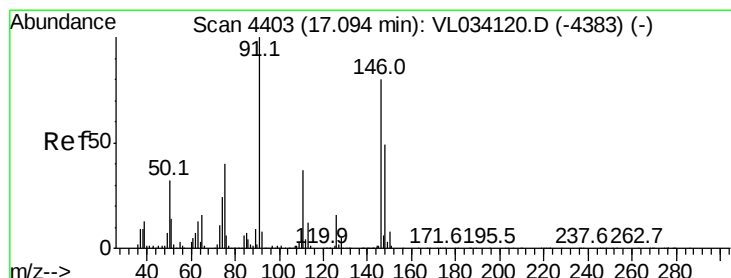
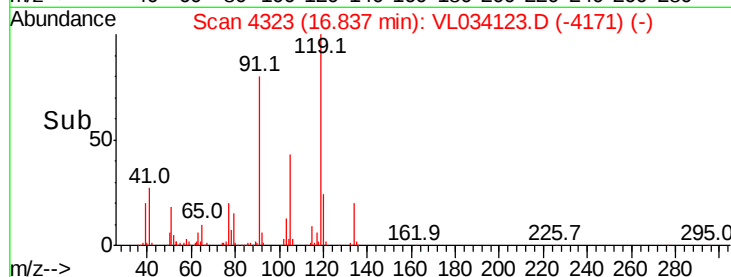
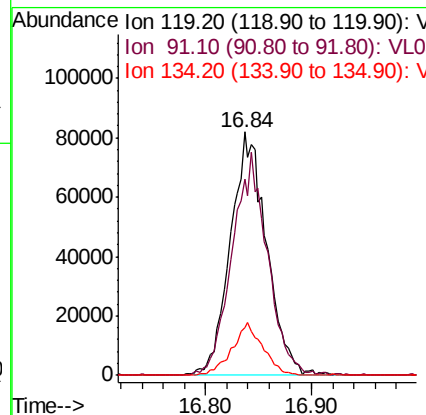
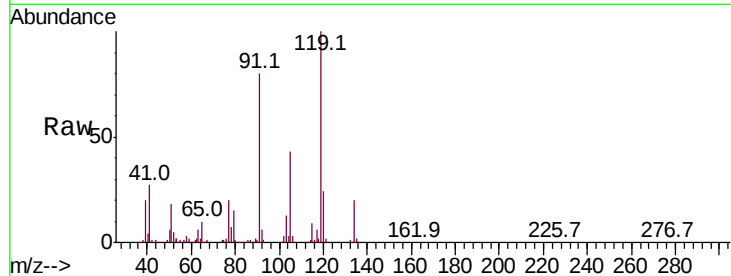
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	195139		
91	0.0	72.8	109.2#	
134	0.0	15.8	23.8#	

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#66

Benzyl Chloride

Concen: 0.371 ppbv m

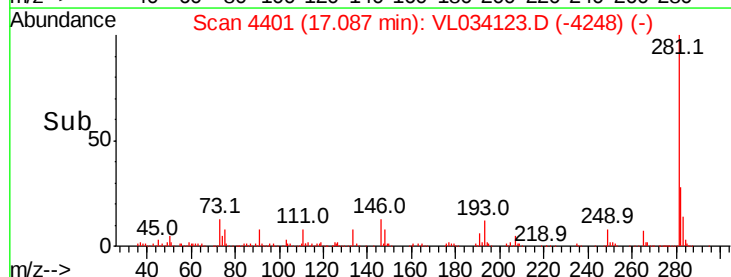
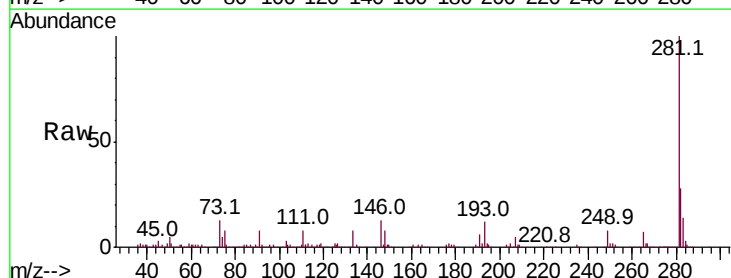
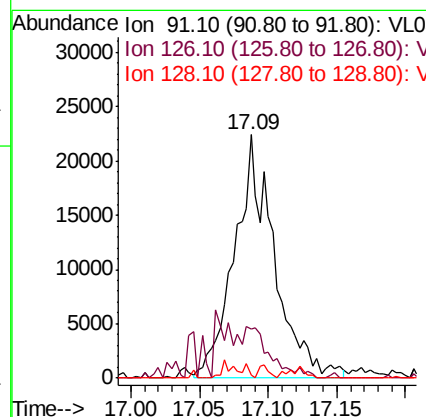
RT: 17.09 min Scan# 4401

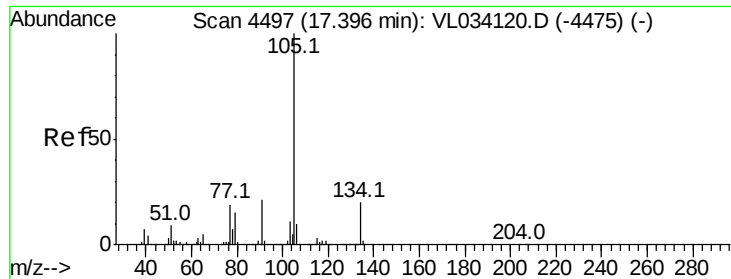
Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	45021		
126	0.0	13.7	20.5#	
128	3.2	4.2	6.4#	





#67

sec-Butylbenzene

Concen: 0.584 ppbv m

RT: 17.39 min Scan# 4495

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampled :

VSTDIC0.5

Tot Ion: 105 Resp: 277229

Ion Ratio Lower Upper

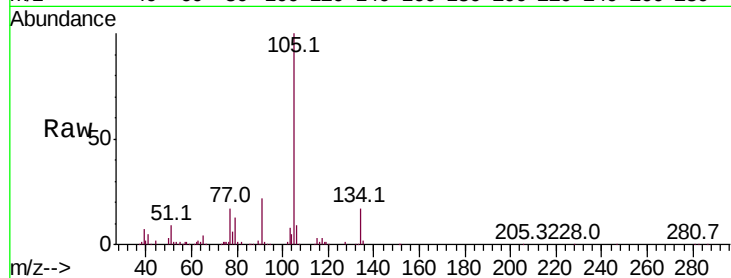
105 100

134 0.0 15.0 22.4#

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

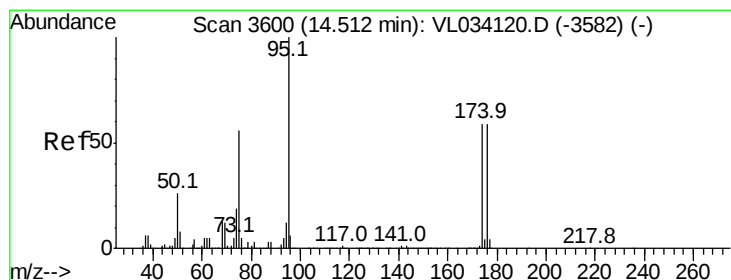
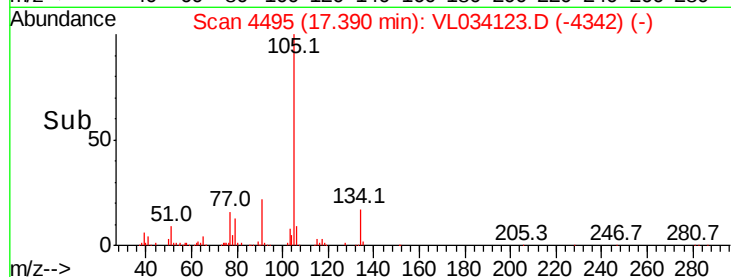
17.39

100000

50000

0

Time--> 17.30 17.35 17.40 17.45



#68

1-Bromo-4-Fluorobenzene

Concen: 10.275 ppbv

RT: 14.51 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

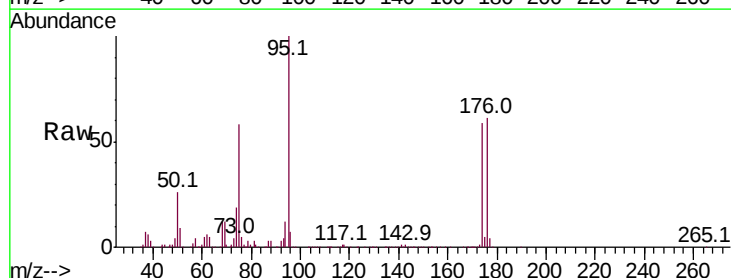
Tgt Ion: 95 Resp: 1853126

Ion Ratio Lower Upper

95 100

174 59.7 48.1 72.1

175 4.3 3.5 5.3



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

1000000

800000

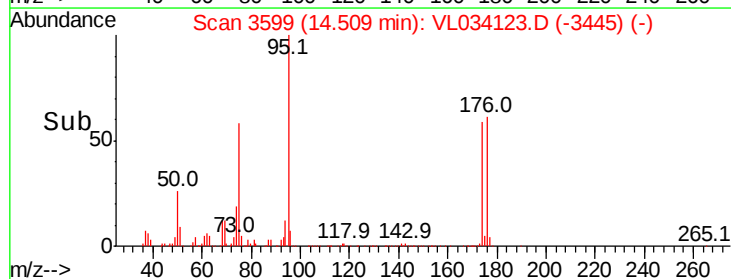
600000

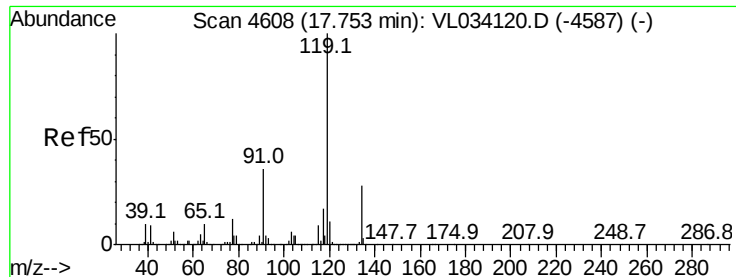
400000

200000

0

Time--> 14.40 14.50 14.60





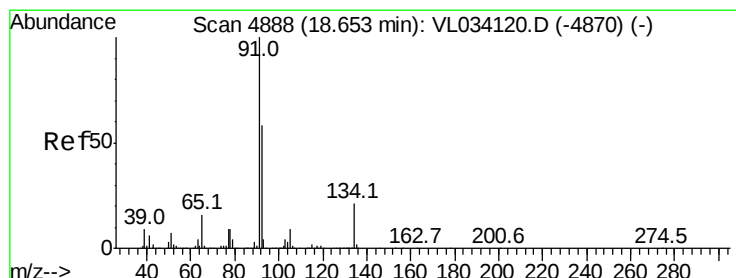
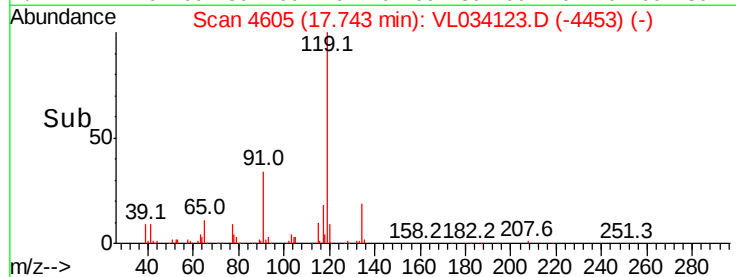
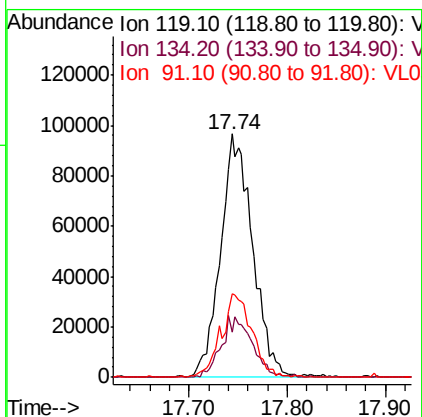
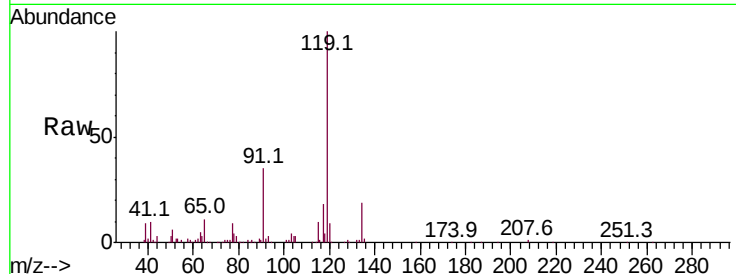
#69
 p-Isopropyltoluene
 Concen: 0.582 ppbv m
 RT: 17.74 min Scan# 4605
 Delta R.T. -0.01 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	119	Resp:	220368
Ion Ratio	Lower	Upper	
119	100		
134	24.1	20.8	31.2
91	33.1	27.2	40.8

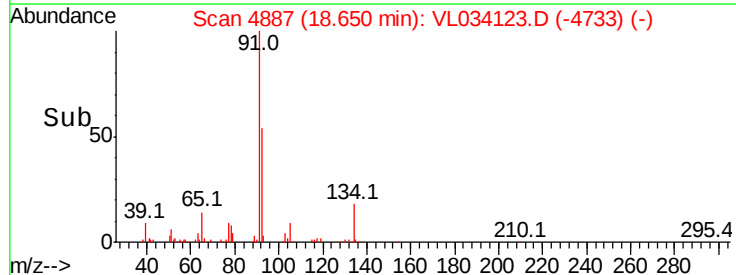
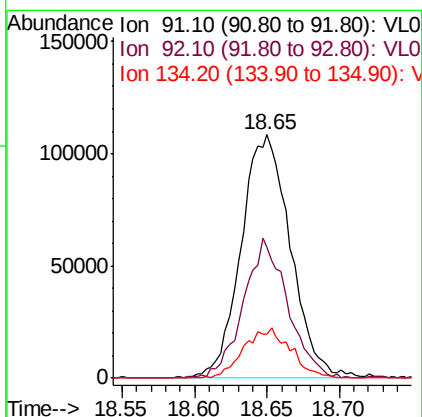
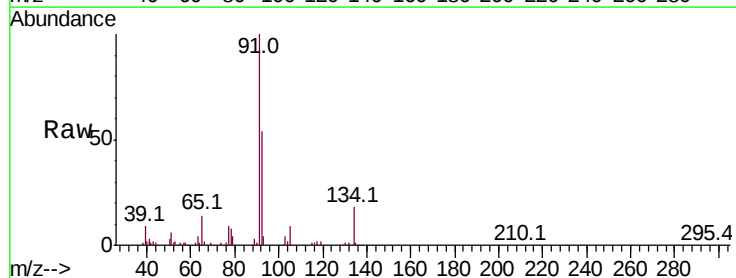
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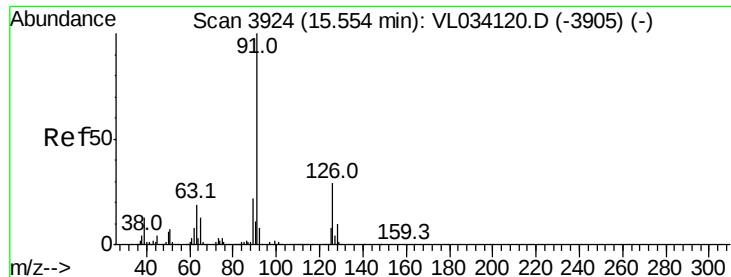
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 9/12/2019 5:14:58 AM



#70
 n-Butylbenzene
 Concen: 0.588 ppbv
 RT: 18.65 min Scan# 4887
 Delta R.T. -0.00 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Tgt Ion:	91	Resp:	254141
Ion Ratio	Lower	Upper	
91	100		
92	52.2	45.3	67.9
134	19.8	17.4	26.0





#71

2-Chlorotoluene

Concen: 0.566 ppbv

RT: 15.55 min Scan# 3923

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 176831

Ion Ratio Lower Upper

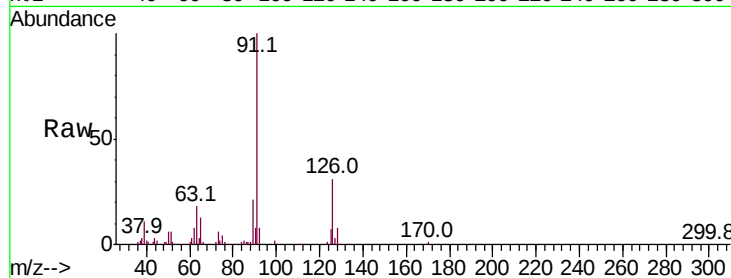
91 100

126 29.6 11.4 45.4

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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

150000

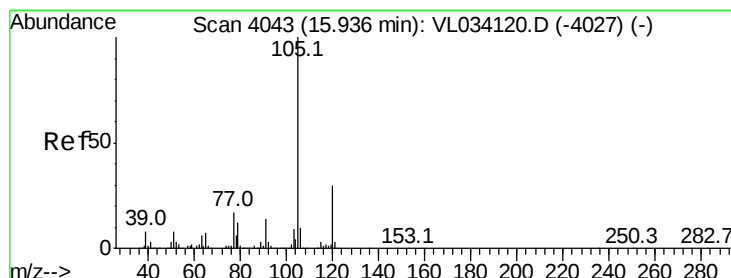
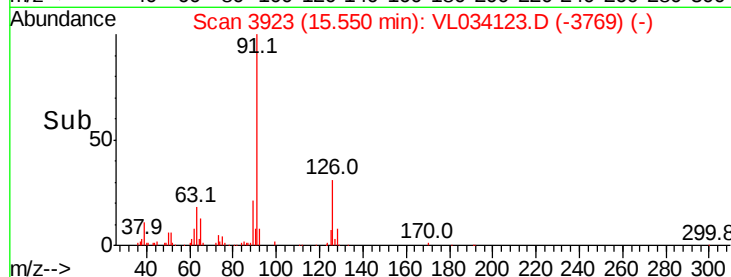
100000

50000

0

15.45 15.50 15.55 15.60

Time-->



#72

4-Ethyltoluene

Concen: 0.562 ppbv

RT: 15.93 min Scan# 4042

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion: 105 Resp: 186226

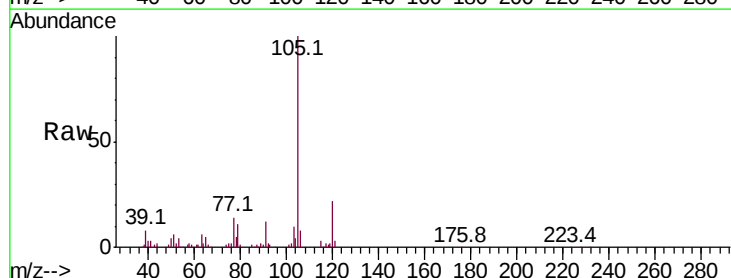
Ion Ratio Lower Upper

105 100

120 28.1 23.8 35.6

91 15.0 11.4 17.0

77 16.1 12.6 18.8



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

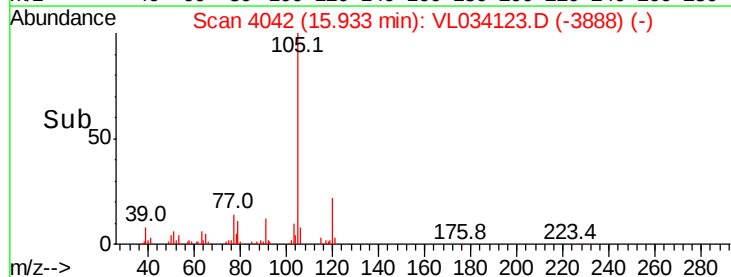
100000

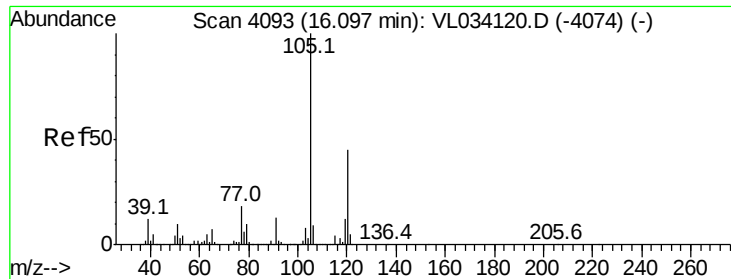
50000

0

15.85 15.90 15.95 16.00

Time-->





#73

1,3,5-Trimethylbenzene

Concen: 0.565 ppbv

RT: 16.09 min Scan# 4091

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 182153

Ion Ratio Lower Upper

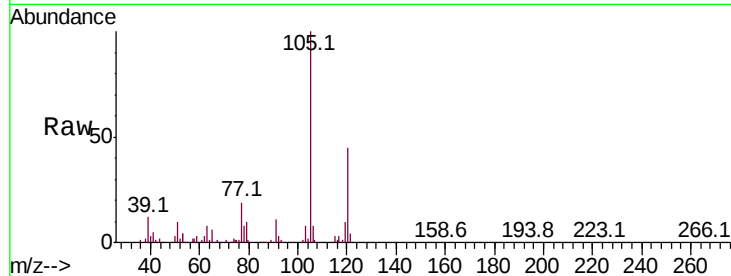
105 100

120 44.8 35.8 53.8

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

80000

60000

40000

20000

0

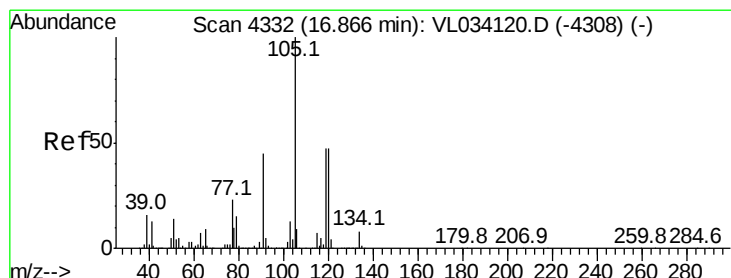
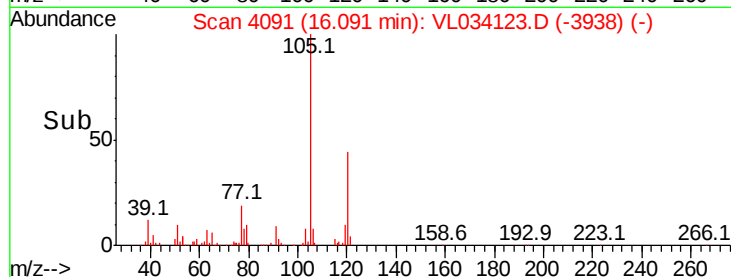
16.09

16.05

16.10

16.15

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.592 ppbv

RT: 16.86 min Scan# 4329

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Tgt Ion:105 Resp: 196542

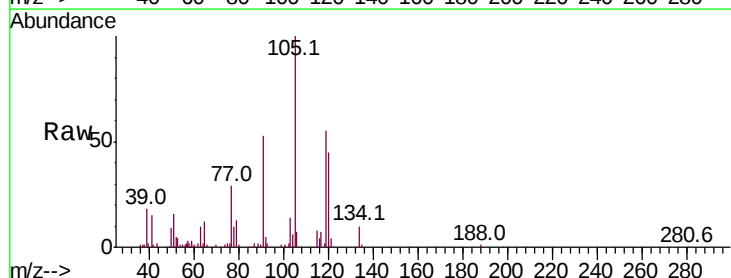
Ion Ratio Lower Upper

105 100

120 44.1 37.7 56.5

91 50.9 36.2 54.2

77 28.0 18.5 27.7#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

120000

100000

80000

60000

40000

20000

0

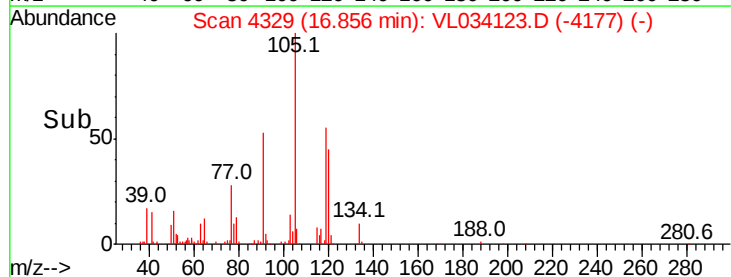
16.86

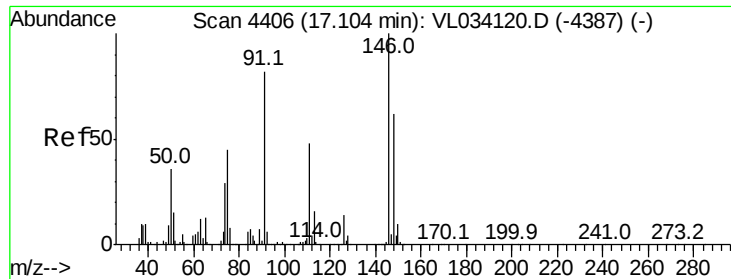
16.80

16.85

16.90

Time-->





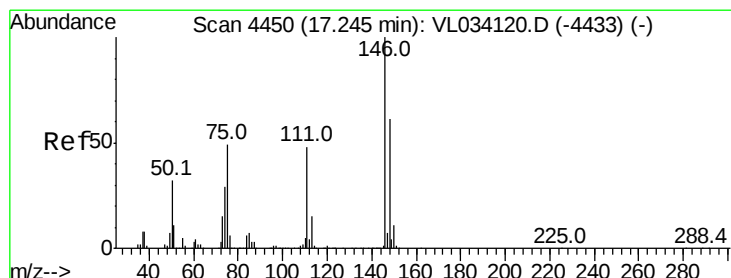
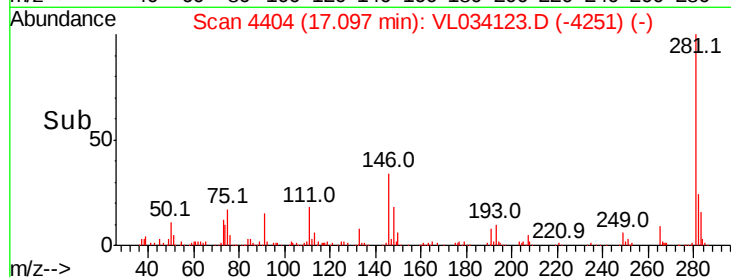
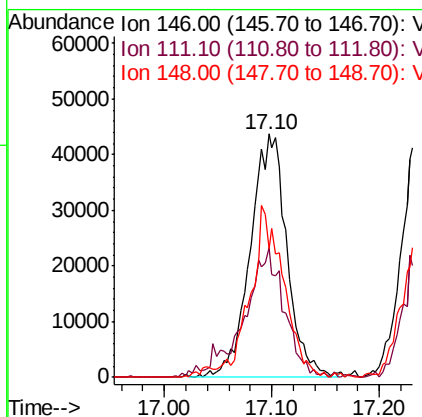
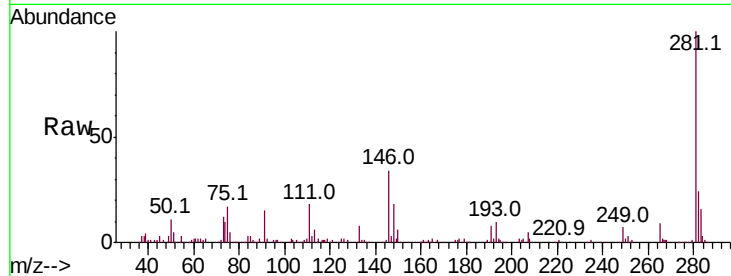
#75
 1,3-Dichlorobenzene
 Concen: 0.587 ppbv m
 RT: 17.10 min Scan# 4404
 Delta R.T. -0.01 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	59.2	24.9	74.7
148	0.0	32.5	97.5#

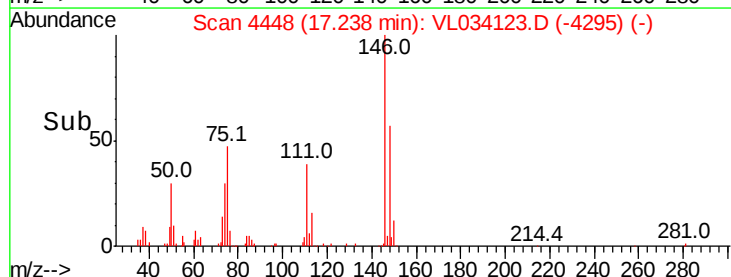
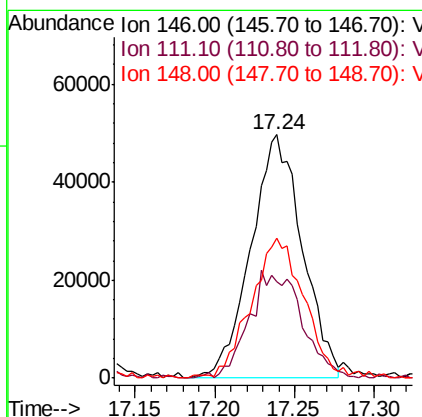
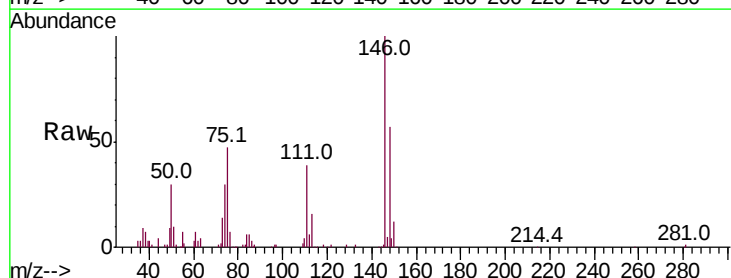
Manual Integrations
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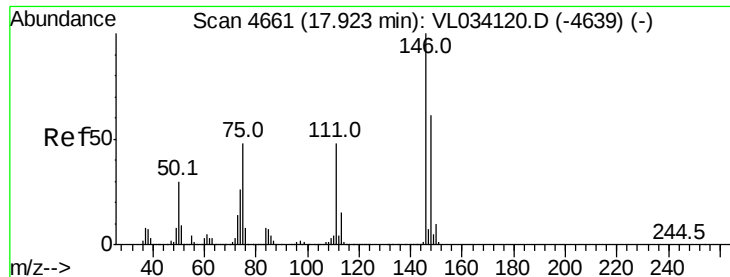
MMDadoda
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#76
 1,4-Dichlorobenzene
 Concen: 0.594 ppbv
 RT: 17.24 min Scan# 4448
 Delta R.T. -0.01 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	45.6	24.3	72.8
148	60.6	32.6	98.0





#77

1,2-Dichlorobenzene

Concen: 0.602 ppbv m

RT: 17.92 min Scan# 4660

Delta R.T. -0.00 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:146 Resp: 108217

Ion Ratio Lower Upper

146 100

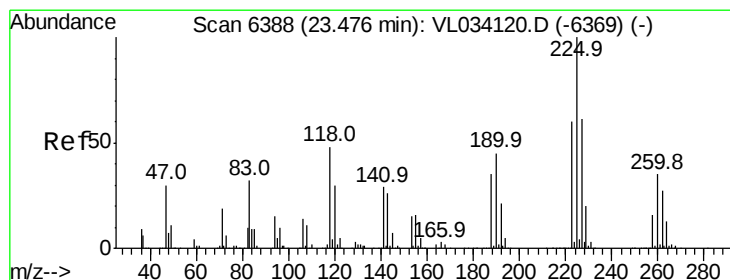
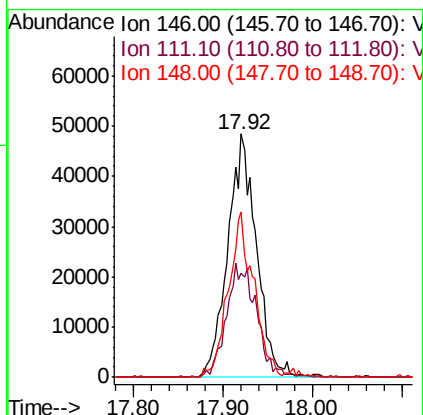
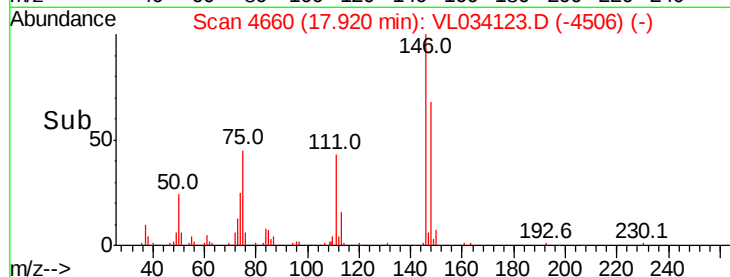
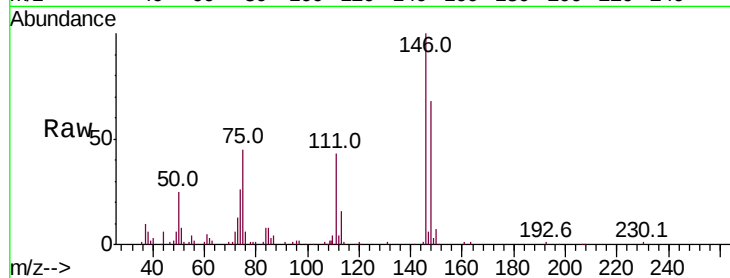
111 49.1 25.1 75.4

148 0.0 32.0 96.2#

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#78

Hexachloro-1,3-Butadiene

Concen: 0.599 ppbv m

RT: 23.47 min Scan# 6386

Delta R.T. -0.01 min

Lab File: VL034123.D

Acq: 5 Sep 2019 4:27

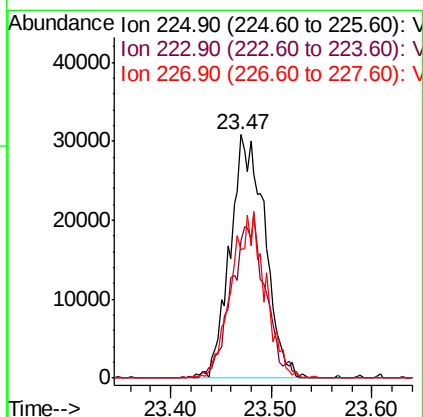
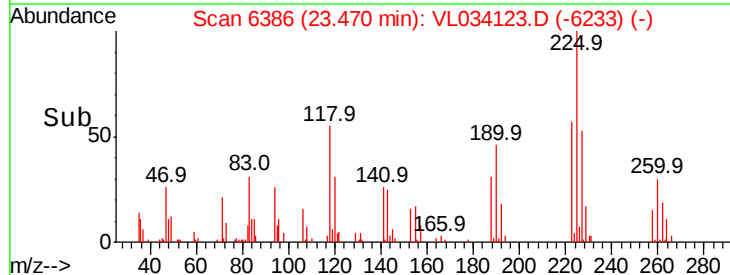
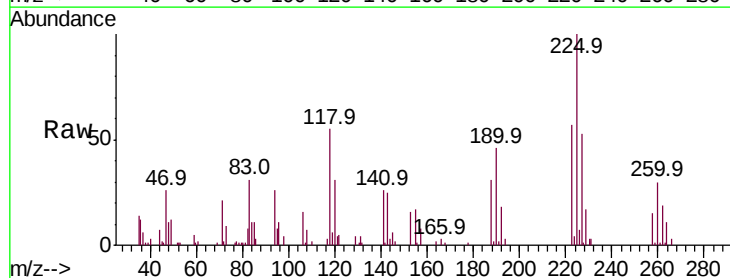
Tgt Ion:225 Resp: 73423

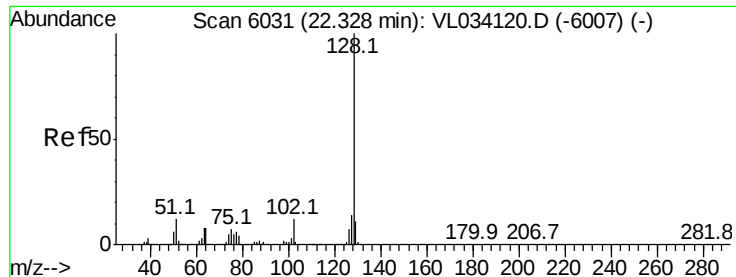
Ion Ratio Lower Upper

225 100

223 0.0 50.3 75.5#

227 0.0 50.9 76.3#





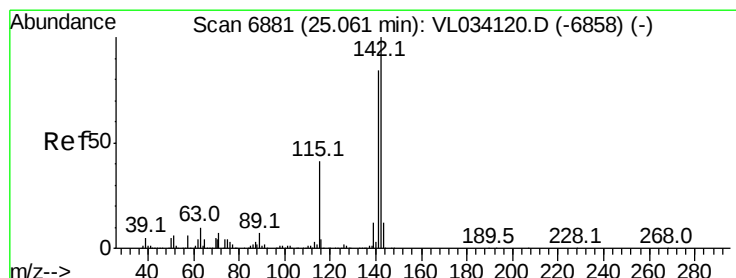
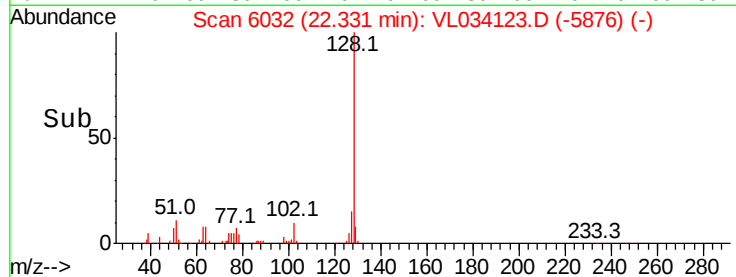
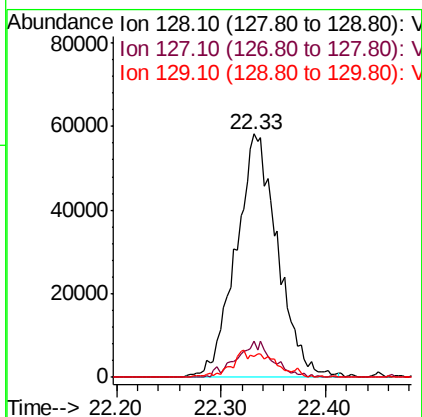
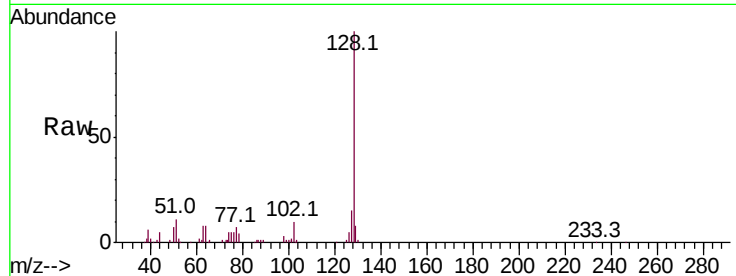
#79
Naphthalene
Concen: 0.538 ppbv m
RT: 22.33 min Scan# 6032
Delta R.T. 0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
128	100	161168		
127	15.0	10.9	16.3	
129	8.4	8.5	12.7	

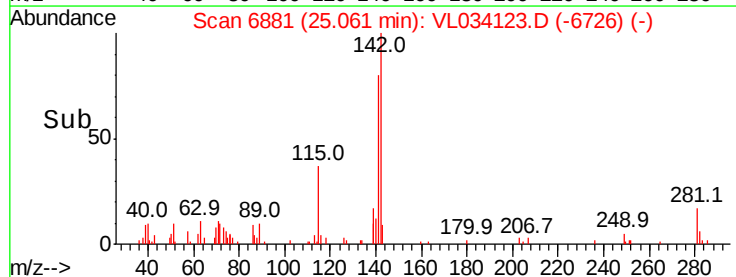
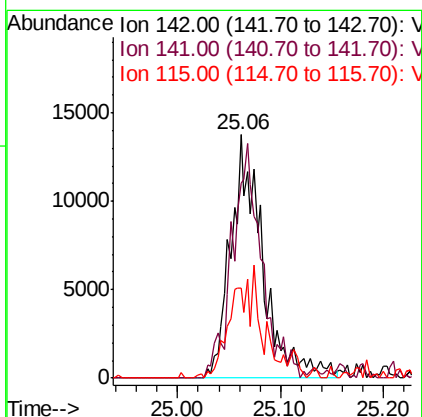
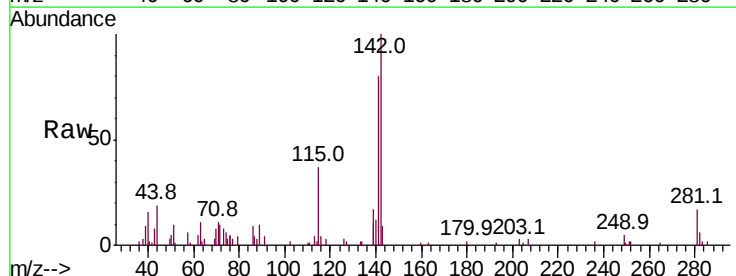
Manual Integrations
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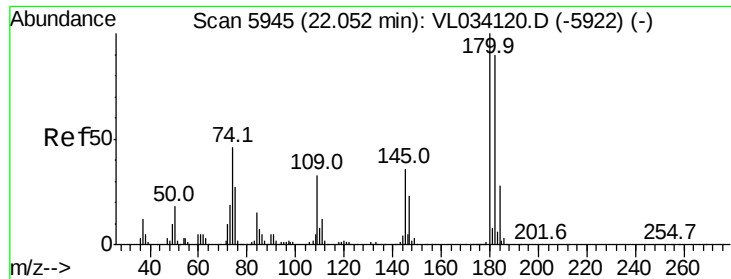
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#80
Naphthalene, 2-methyl-
Concen: 0.282 ppbv
RT: 25.06 min Scan# 6881
Delta R.T. -0.00 min
Lab File: VL034123.D
Acq: 5 Sep 2019 4:27

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	29406		
141	88.5	67.6	101.4	
115	46.3	34.6	52.0	





#81
 1,2,4-Trichlorobenzene
 Concen: 0.556 ppbv m
 RT: 22.05 min Scan# 5946
 Delta R.T. 0.00 min
 Lab File: VL034123.D
 Acq: 5 Sep 2019 4:27

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	99.9	77.0	115.4	
184	33.5	25.5	38.3	

Manual Integrations
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