

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032119\
 Data File : VL033432.D
 Acq On : 22 Mar 2019 14:21
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:15 AM

Quant Time: Mar 23 03:32:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	836809	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	2032092	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2150037	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	1625984	10.21	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.10%

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	900753	6.121	ppbv	97
3) Chlorodifluoromethane	3.02	51	924566	9.626	ppbv	98
4) Chloromethane	3.17	50	497049	9.557	ppbv	99
5) Vinyl Chloride	3.29	62	495664	9.238	ppbv	98
6) Bromomethane	3.52	94	315349	9.888	ppbv	96
7) Chloroethane	3.60	64	200954	10.719	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	1220925	9.746	ppbv	100
9) Propene	3.04	41	391769	9.137	ppbv	99
10) Heptane	8.25	43	1245754	11.714	ppbv	100
11) Trichlorofluoromethane	4.01	101	1694560	11.564	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	1100149	11.316	ppbv	99
13) Ethanol	3.65	45	95095	4.652	ppbv	97
14) Bromoethene	3.79	108	454863	11.225	ppbv	99
15) Acetone	3.90	43	1051044	8.080	ppbv	99
16) 1,3-Butadiene	3.36	39	401343	9.499	ppbv	98
17) tert-Butyl alcohol	4.36	59	209834	11.463	ppbv	100
18) 1,1-Dichloroethene	4.35	96	488279	10.984	ppbv	99
19) Isopropyl Alcohol	4.03	45	693438	11.207	ppbv	100
20) Methylene Chloride	4.41	84	416577	9.819	ppbv	98
21) Allyl Chloride	4.48	41	740249	11.731	ppbv	99
22) trans-1,2-Dichloroethene	4.97	96	502459	11.663	ppbv	98
23) Vinyl Acetate	5.16	43	1657965	11.016	ppbv	99
24) 1,1-Dichloroethane	5.09	63	1179193	10.848	ppbv	99
25) Ethyl Acetate	5.77	43	1987981	10.513	ppbv	100
26) Hexane	5.78	57	883386	10.450	ppbv	99
27) Carbon Disulfide	4.62	76	1200528	12.336	ppbv	100
28) Methyl tert-Butyl Ether	5.11	73	1385212	11.032	ppbv	100
29) Chloroform	5.85	83	1508658	10.899	ppbv	97
30) Cyclohexane	7.25	84	784243	11.571	ppbv	98
31) cis-1,2-Dichloroethene	5.65	61	913714	10.810	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	1574268	11.584	ppbv	99
34) 2-Butanone	5.33	43	1306529	9.790	ppbv	98
35) Carbon Tetrachloride	7.14	117	1661749	11.599	ppbv	99
36) Benzene	7.01	78	1923178	10.575	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1221876	10.626	ppbv	99
38) Trichloroethene	7.97	130	765612	11.125	ppbv	94
39) 1,2-Dichloropropane	7.74	63	735632	10.801	ppbv	96
40) 1,4-Dioxane	7.96	88	245386	10.232	ppbv	91
41) Tetrahydrofuran	6.15	42	762634	10.708	ppbv	99
42) Bromodichloromethane	7.92	83	1741795	11.298	ppbv	98
43) Methyl Methacrylate	8.14	69	796644	11.250	ppbv	99

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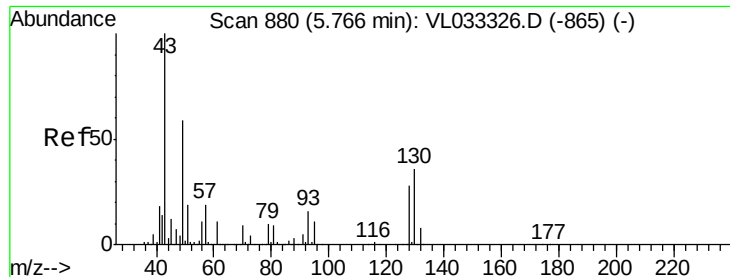
Manual Integrations
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MMDadoda
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.00	57	3298488	10.951	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1060440	12.130	ppbv	100
46) cis-1,3-Dichloropropene	8.84	75	1198820	11.646	ppbv	99
47) 1,1,2-Trichloroethane	9.62	97	807344	10.729	ppbv	96
48) Dibromochloromethane	10.46	129	1478425	11.715	ppbv	100
49) Bromoform	13.21	173	1307009	10.918	ppbv	100
50) 4-Methyl-2-Pentanone	8.88	43	1964135	10.420	ppbv	100
51) 2-Hexanone	10.28	43	1554049	10.686	ppbv #	100
52) Tetrachloroethene	11.38	164	733532	9.682	ppbv	99
53) Toluene	9.96	91	2274657	11.008	ppbv	100
54) 1,2-Dibromoethane	10.77	107	1304958	10.259	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.29	131	1035298	10.764	ppbv	96
57) Chlorobenzene	12.31	112	1713467	10.062	ppbv	99
58) Ethyl Benzene	12.87	91	3230804	10.622	ppbv	100
59) m/p-Xylene	13.16	91	5452040m	20.858	ppbv	
60) o-Xylene	13.86	91	2716044	10.651	ppbv	100
61) Styrene	13.70	104	1977485	11.076	ppbv	99
62) Isopropylbenzene	14.84	105	3765802	10.623	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.85	83	1856520	10.071	ppbv	99
64) n-propylbenzene	15.73	120	956343	10.661	ppbv	99
65) tert-Butylbenzene	16.92	119	3383177	10.600	ppbv	100
66) Benzyl Chloride	17.16	91	1725841	13.085	ppbv	99
67) sec-Butylbenzene	17.47	105	4791257	10.594	ppbv	100
69) p-Isopropyltoluene	17.83	119	3969949	10.744	ppbv	99
70) n-Butylbenzene	18.72	91	4161897	10.563	ppbv	100
71) 2-Chlorotoluene	15.63	91	2895742	10.493	ppbv	99
72) 4-Ethyltoluene	16.01	105	3134741	10.825	ppbv	99
73) 1,3,5-Trimethylbenzene	16.17	105	3001235	10.639	ppbv	100
74) 1,2,4-Trimethylbenzene	16.94	105	3106937	10.399	ppbv	99
75) 1,3-Dichlorobenzene	17.18	146	1790548	10.168	ppbv	100
76) 1,4-Dichlorobenzene	17.32	146	1772852	10.398	ppbv	99
77) 1,2-Dichlorobenzene	18.00	146	1742026	10.445	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1220735	12.208	ppbv	99
79) Naphthalene	22.42	128	2798883	9.721	ppbv	99
80) Naphthalene, 2-methyl-	25.12	142	1173533	8.596	ppbv	99
81) 1,2,4-Trichlorobenzene	22.15	180	1465472	9.982	ppbv	99

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



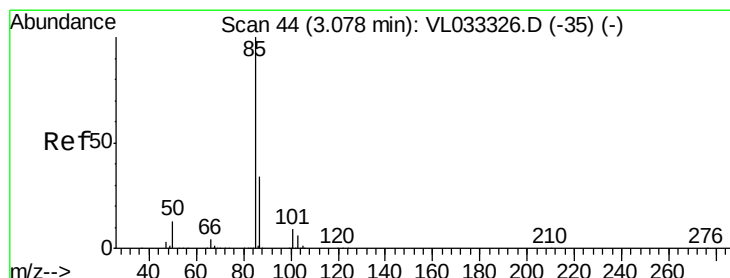
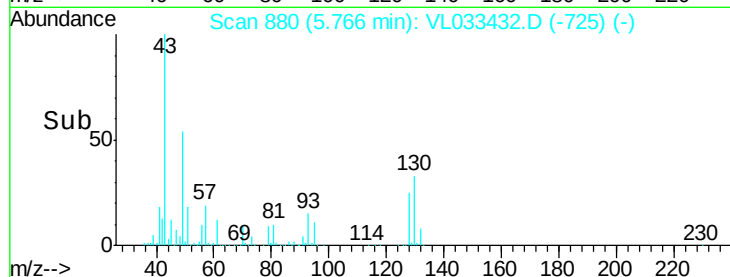
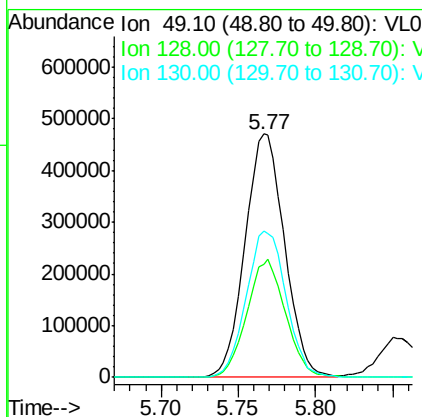
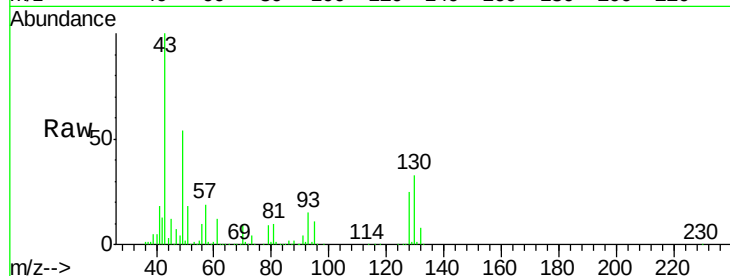
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.77 min Scan# 880
Delta R.T. -0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Instrument :
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ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
49	100		
128	47.6	23.5	70.6
130	61.0	30.1	90.3

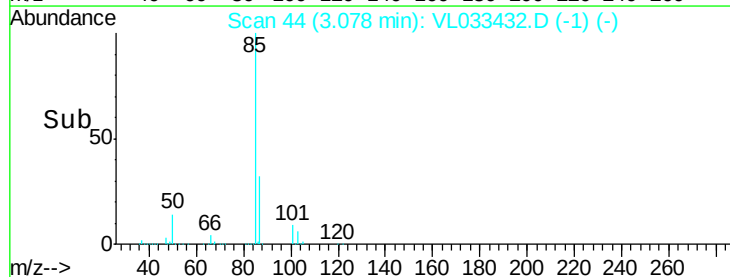
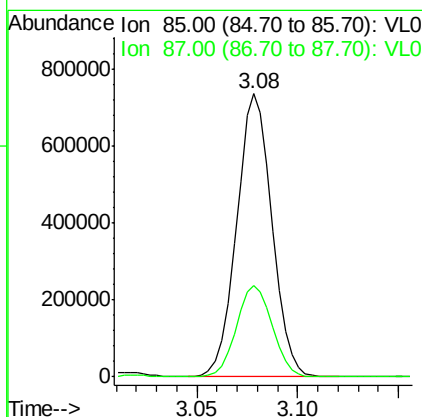
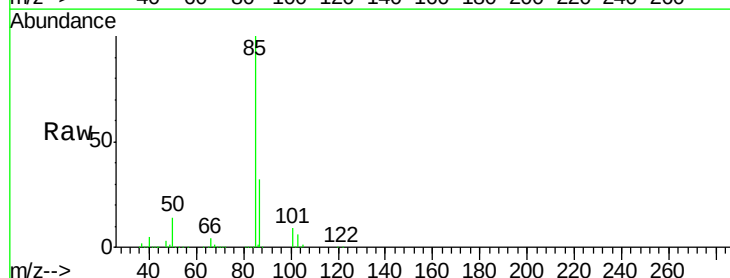
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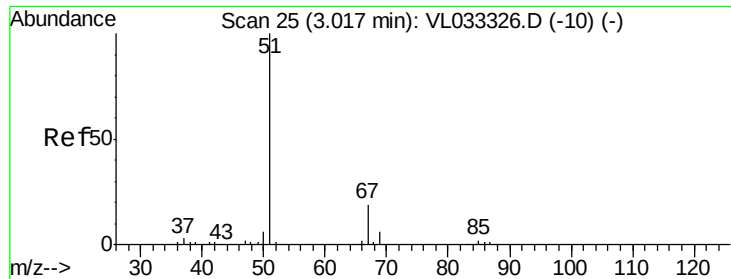
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#2
Dichlorodifluoromethane
Concen: 6.121 ppbv
RT: 3.08 min Scan# 44
Delta R.T. -0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Tgt Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.9	40.3





#3

Chlorodifluoromethane

Concen: 9.626 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tot Ion: 51 Resp: 924566

Ion Ratio Lower Upper

51 100

67 19.5 14.9 22.3

Instrument :

MSVOA_L

ClientSampleId :

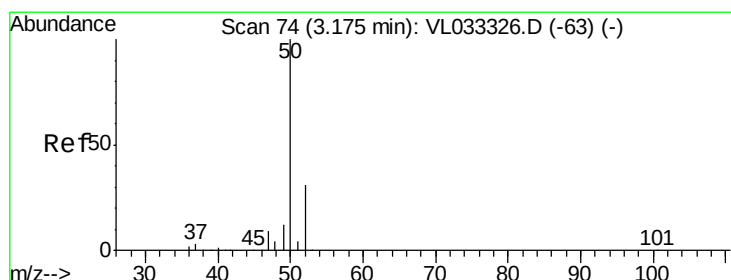
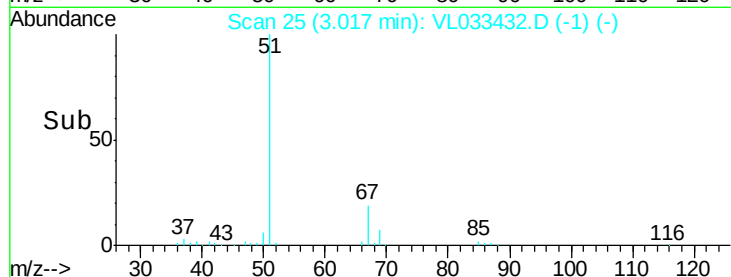
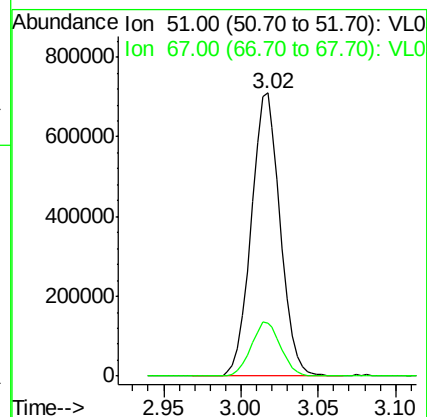
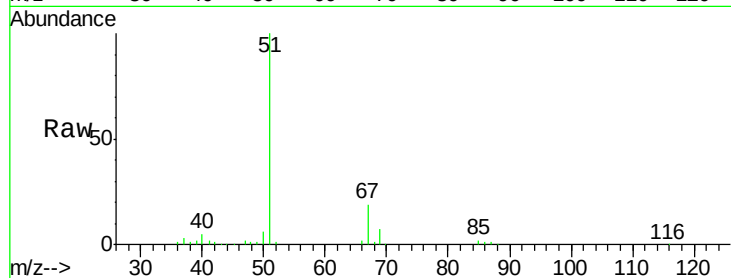
VSTDCCC010EC

Manual Integrations

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#4

Chloromethane

Concen: 9.557 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033432.D

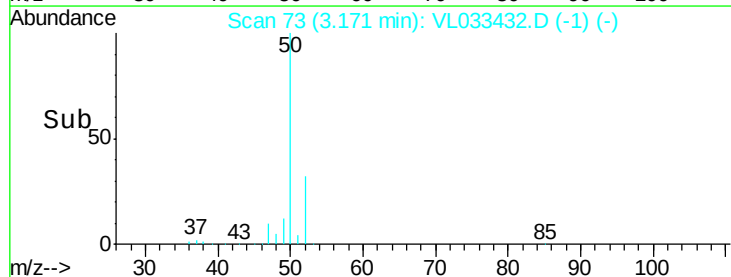
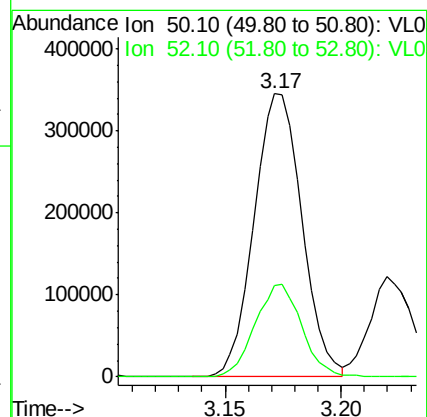
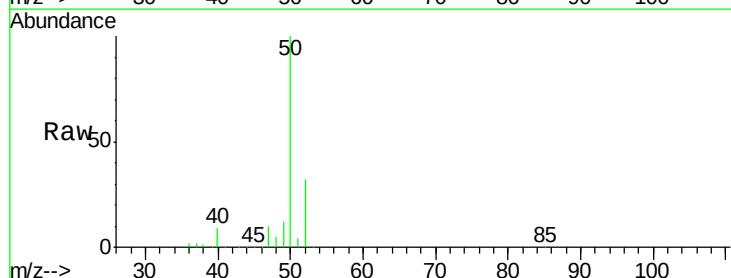
Acq: 22 Mar 2019 14:21

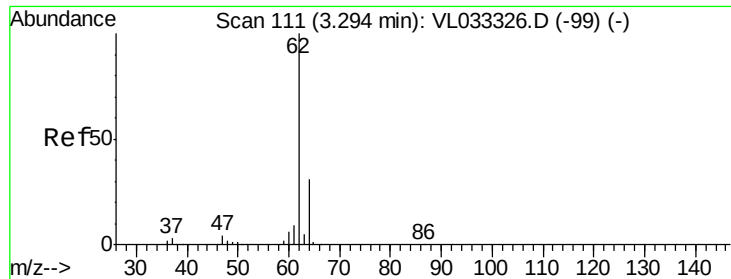
Tgt Ion: 50 Resp: 497049

Ion Ratio Lower Upper

50 100

52 32.1 25.0 37.6





#5

Vinyl Chloride

Concen: 9.238 ppbv

RT: 3.29 min Scan# 111

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 495664

Ion Ratio Lower Upper

62 100

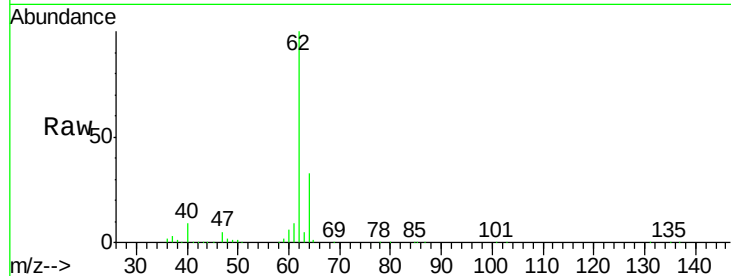
64 32.6 25.0 37.6

Manual Integrations

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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

3.29

400000

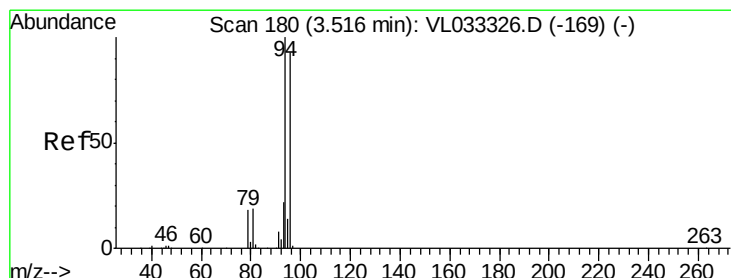
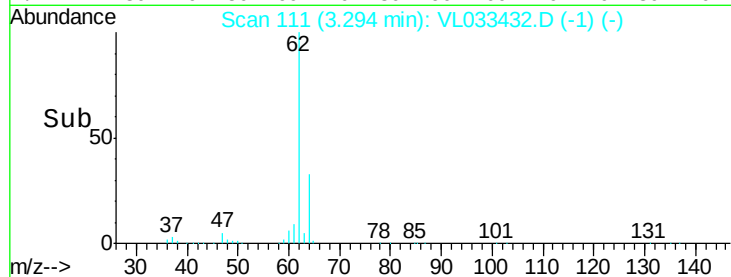
300000

200000

100000

0

Time-->



#6

Bromomethane

Concen: 9.888 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033432.D

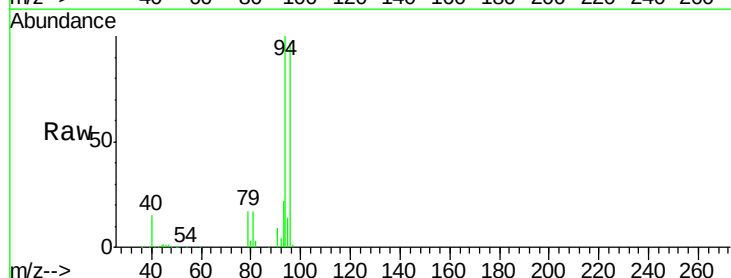
Acq: 22 Mar 2019 14:21

Tgt Ion: 94 Resp: 315349

Ion Ratio Lower Upper

94 100

96 97.2 74.6 111.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

3.52

250000

200000

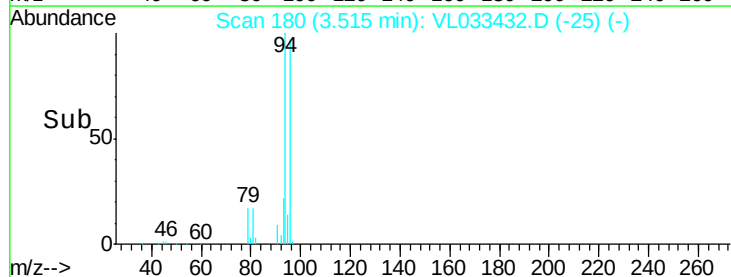
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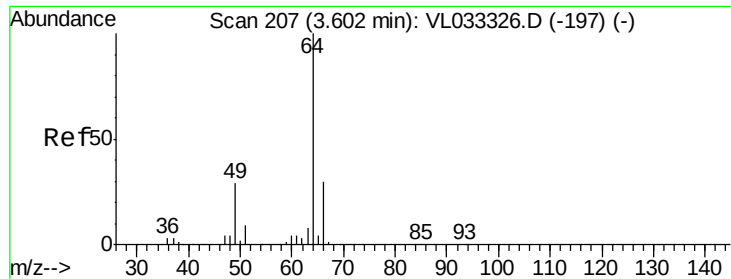
100000

50000

0

Time-->





#7

Chloroethane

Concen: 10.719 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 200954

Ion Ratio Lower Upper

64 100

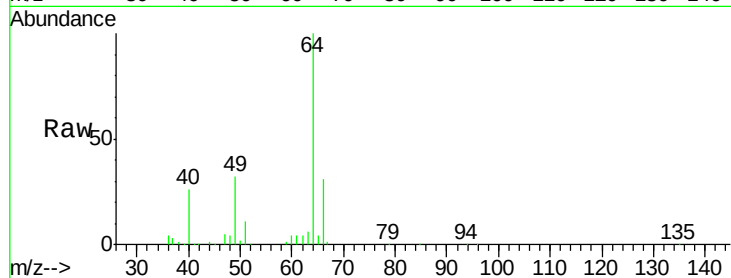
66 30.9 24.0 36.0

Manual Integrations

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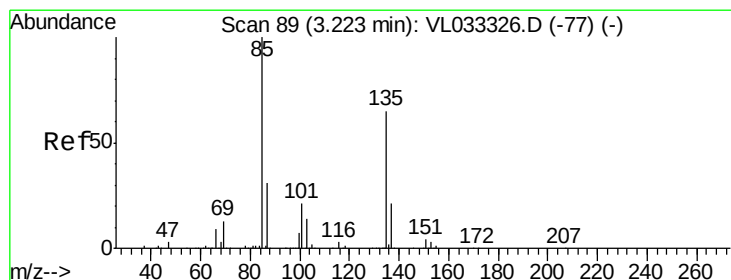
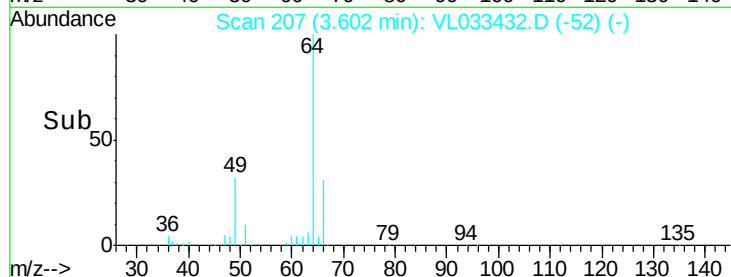
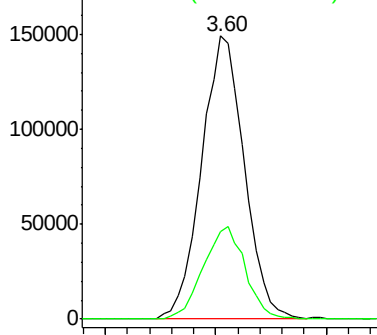
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 9.746 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL033432.D

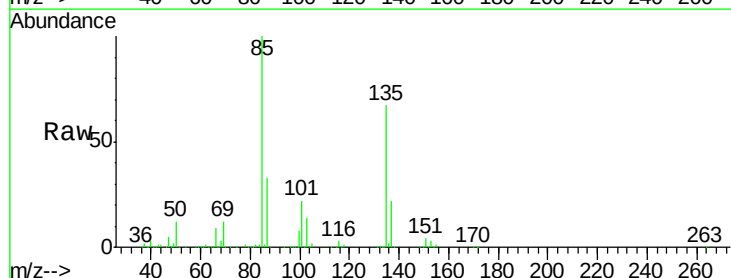
Acq: 22 Mar 2019 14:21

Tgt Ion: 85 Resp: 1220925

Ion Ratio Lower Upper

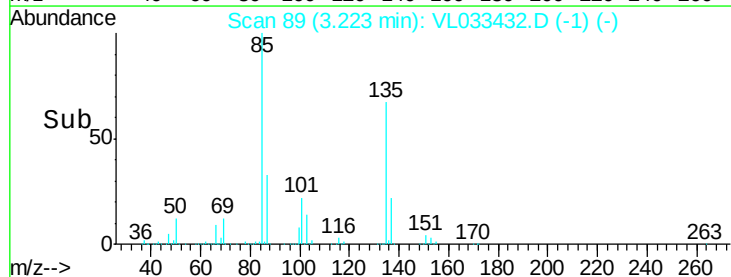
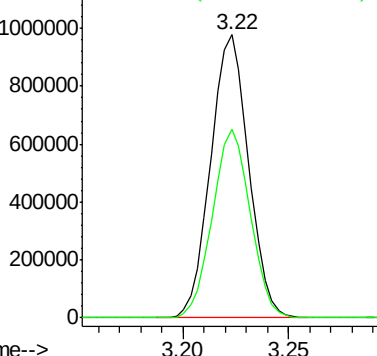
85 100

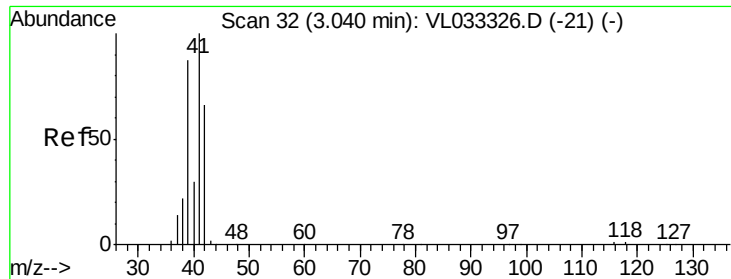
135 66.8 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 9.137 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

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ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 391769

Ion Ratio Lower Upper

41 100

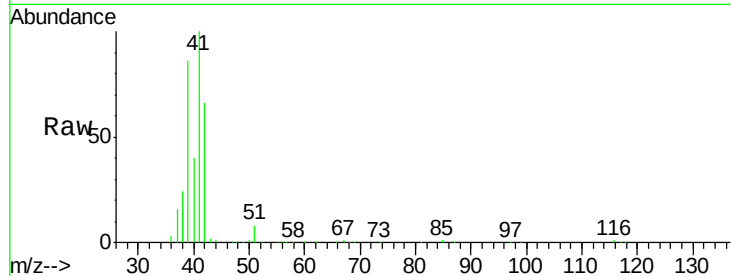
42 68.6 55.2 82.8

Manual Integrations

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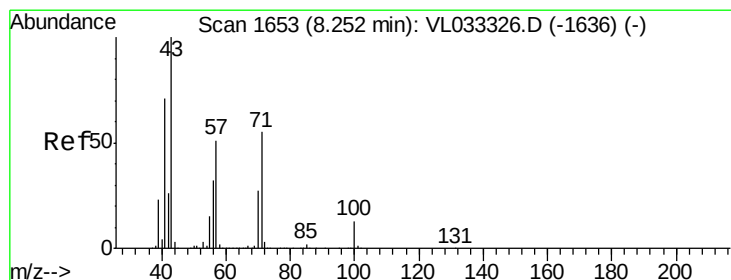
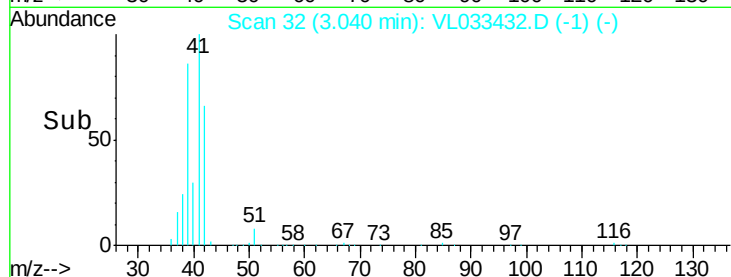
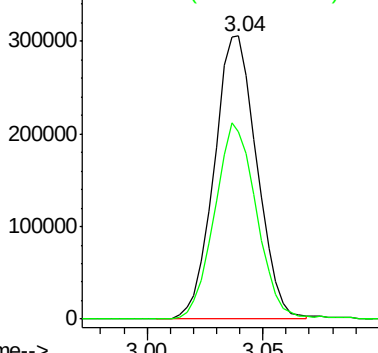
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 11.714 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL033432.D

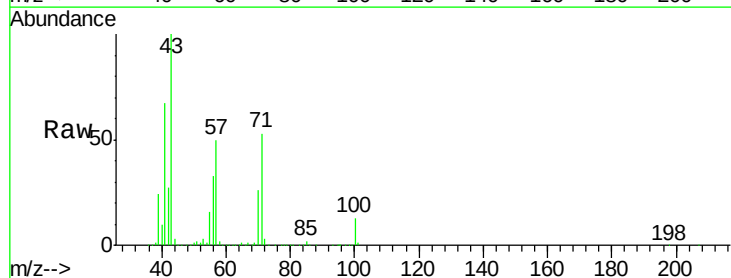
Acq: 22 Mar 2019 14:21

Tgt Ion: 43 Resp: 1245754

Ion Ratio Lower Upper

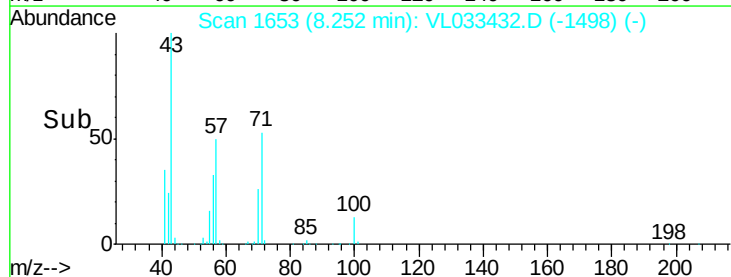
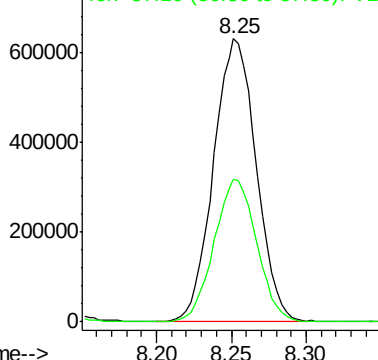
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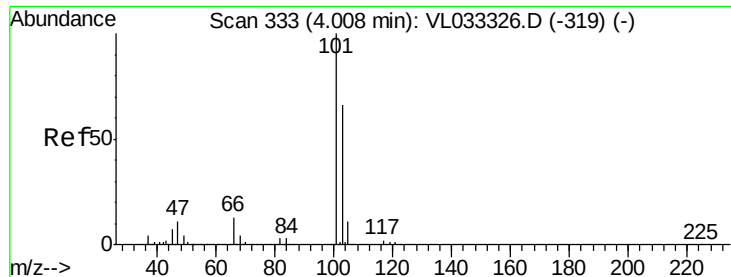
57 50.5 40.4 60.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#11

Trichlorofluoromethane

Concen: 11.564 ppbv

RT: 4.01 min Scan# 333

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:101 Resp: 1694560

Ion Ratio Lower Upper

101 100

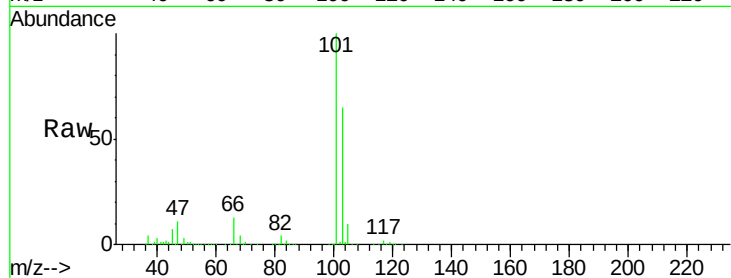
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Manual Integrations

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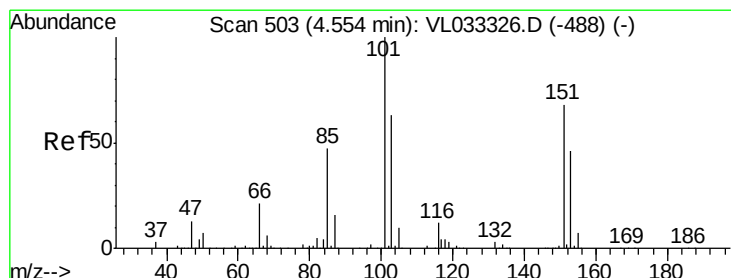
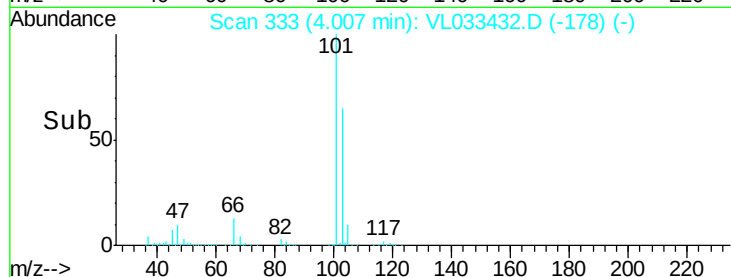
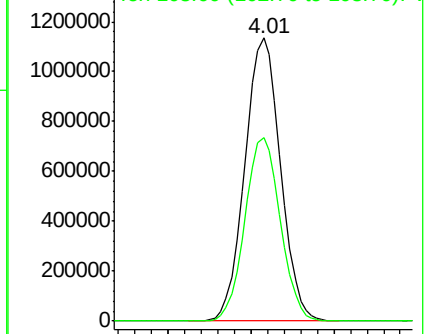
MMDadoda

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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: 11.316 ppbv

RT: 4.56 min Scan# 504

Delta R.T. 0.00 min

Lab File: VL033432.D

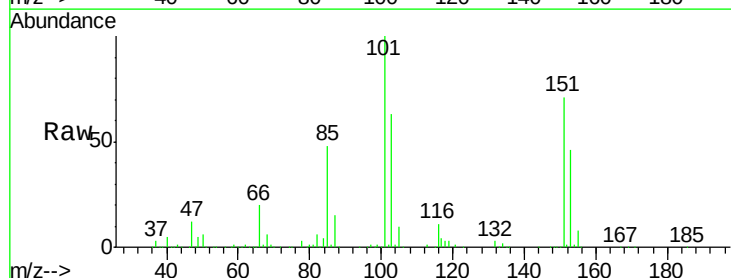
Acq: 22 Mar 2019 14:21

Tgt Ion:101 Resp: 1100149

Ion Ratio Lower Upper

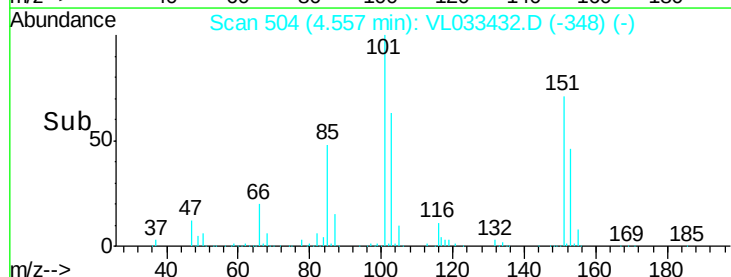
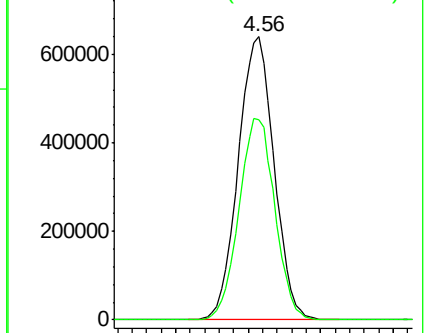
101 100

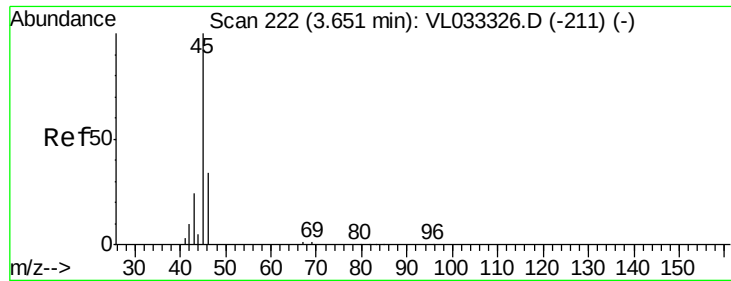
151 71.3 56.3 84.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 4.652 ppbv

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 95095

Ion Ratio Lower Upper

45 100

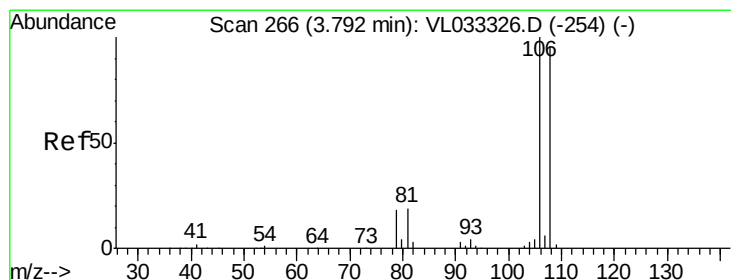
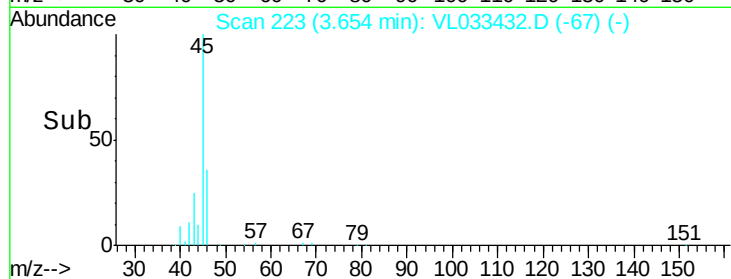
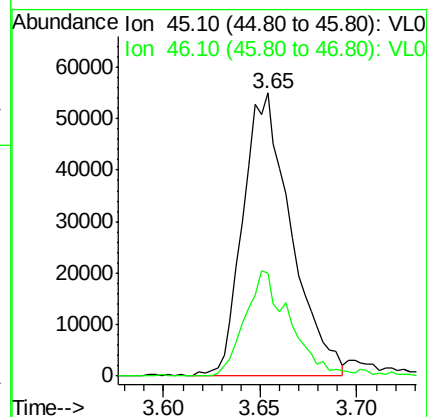
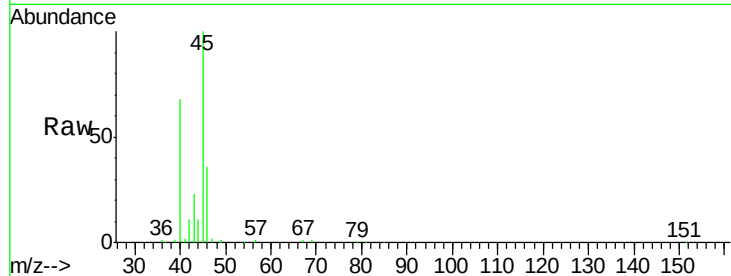
46 35.8 14.9 59.7

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#14

Bromoethene

Concen: 11.225 ppbv

RT: 3.79 min Scan# 265

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

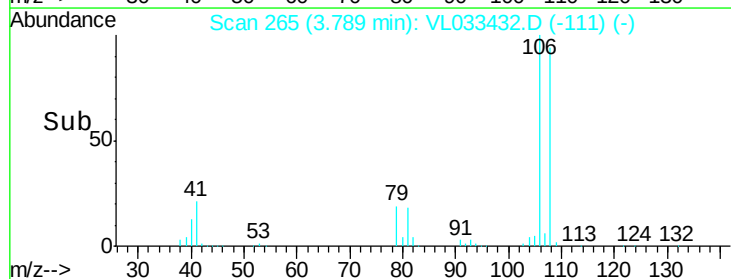
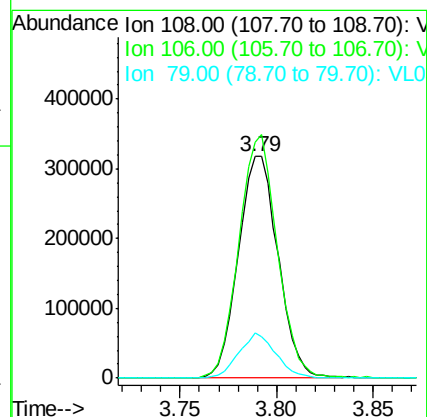
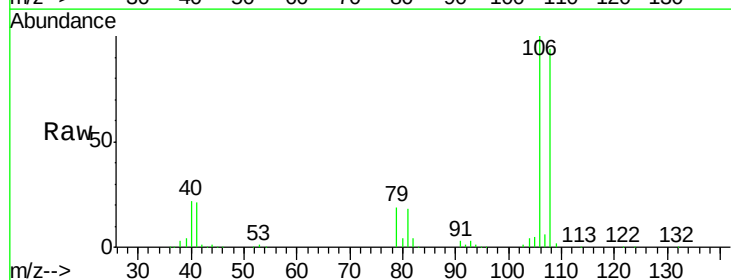
Tgt Ion: 108 Resp: 454863

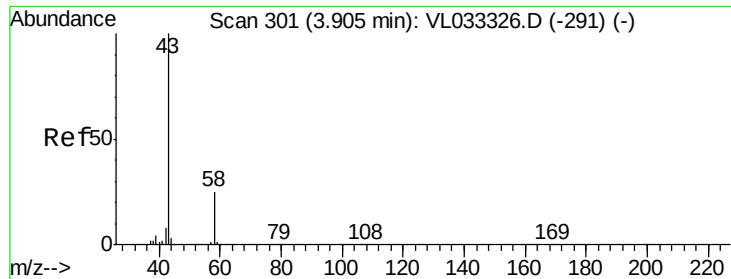
Ion Ratio Lower Upper

108 100

106 106.4 86.2 129.2

79 19.1 15.4 23.2





#15

Acetone

Concen: 8.080 ppbv

RT: 3.90 min Scan# 301

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1051044

Ion Ratio Lower Upper

43 100

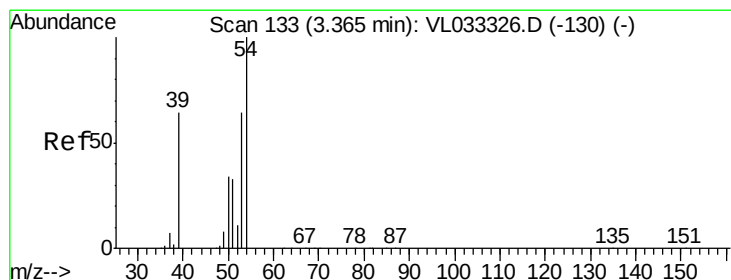
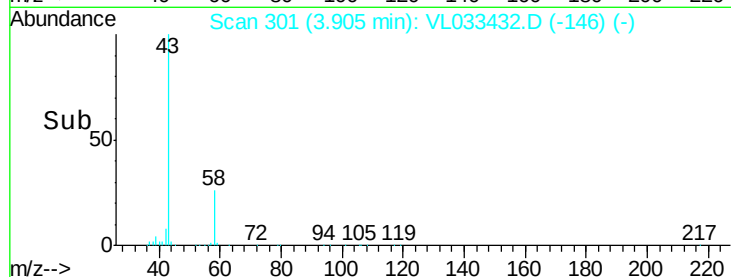
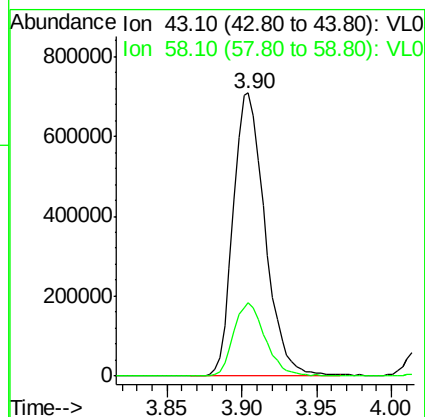
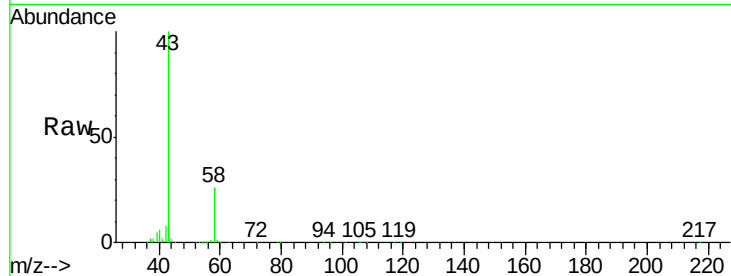
58 25.8 20.4 30.6

Manual Integrations

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#16

1,3-Butadiene

Concen: 9.499 ppbv

RT: 3.36 min Scan# 133

Delta R.T. -0.00 min

Lab File: VL033432.D

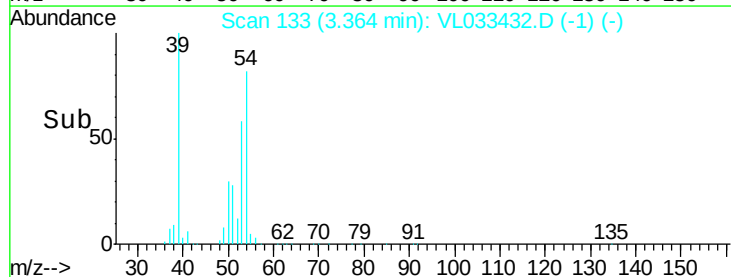
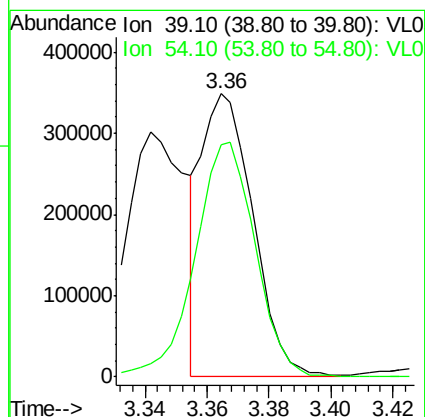
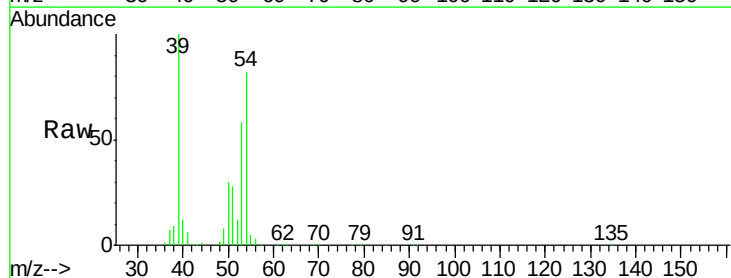
Acq: 22 Mar 2019 14:21

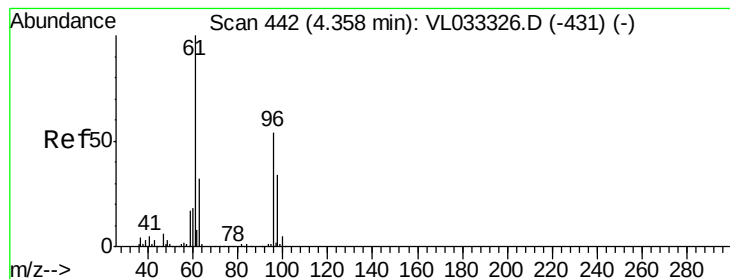
Tgt Ion: 39 Resp: 401343

Ion Ratio Lower Upper

39 100

54 98.0 76.8 115.2





#17

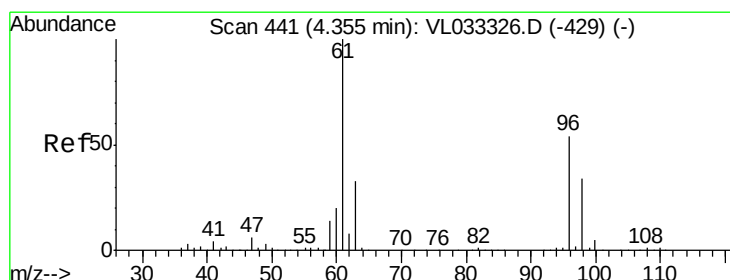
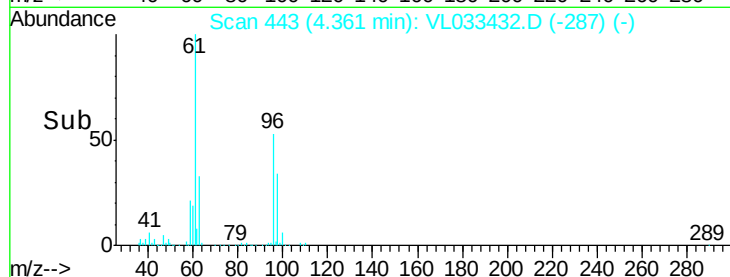
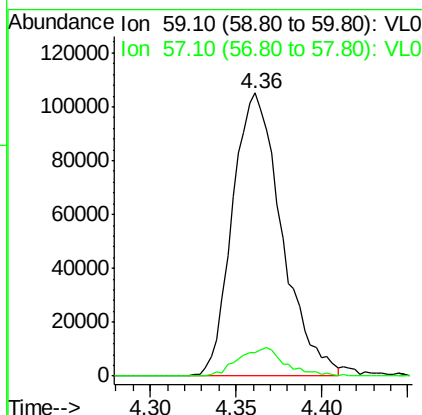
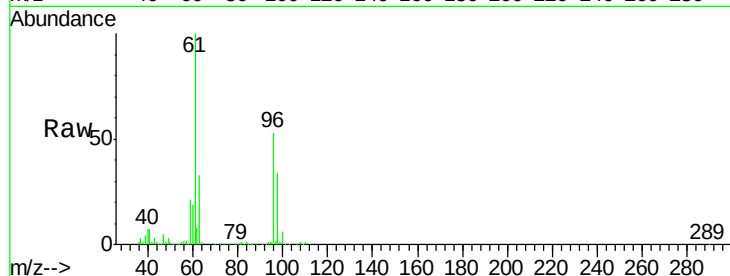
tert-Butyl alcohol
 Concen: 11.463 ppbv
 RT: 4.36 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 209834
 Ion Ratio Lower Upper
 59 100
 57 9.7 7.7 11.5

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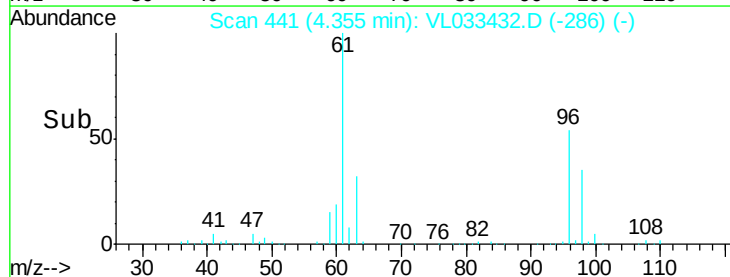
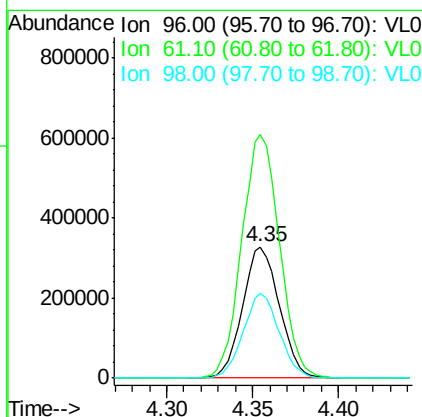
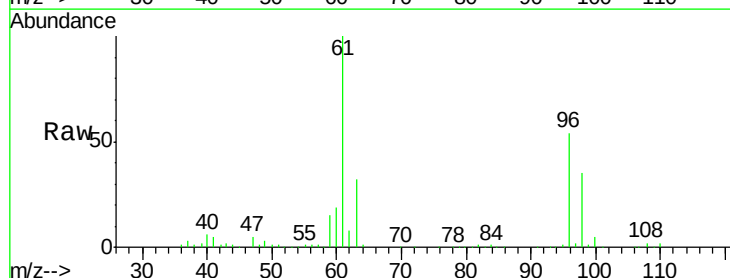
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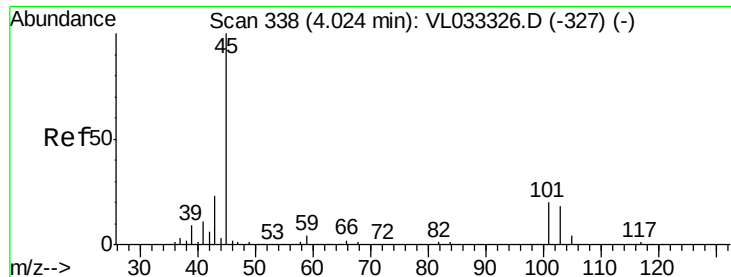


#18

1,1-Dichloroethene
 Concen: 10.984 ppbv
 RT: 4.35 min Scan# 441
 Delta R.T. -0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Tgt Ion: 96 Resp: 488279
 Ion Ratio Lower Upper
 96 100
 61 185.6 148.6 222.8
 98 64.6 50.3 75.5





#19

Isopropyl Alcohol

Concen: 11.207 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tot Ion: 45 Resp: 693438

Ion Ratio Lower Upper

45 100

58 1.9 1.5 2.3

Instrument :

MSVOA_L

ClientSampleId :

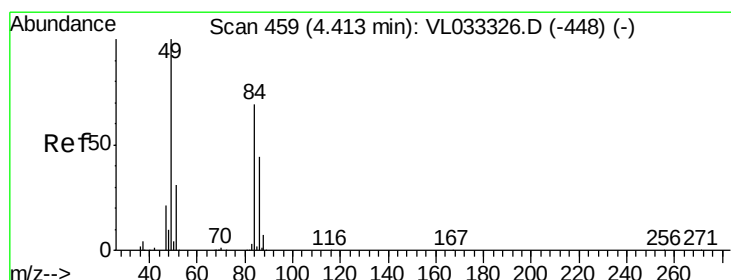
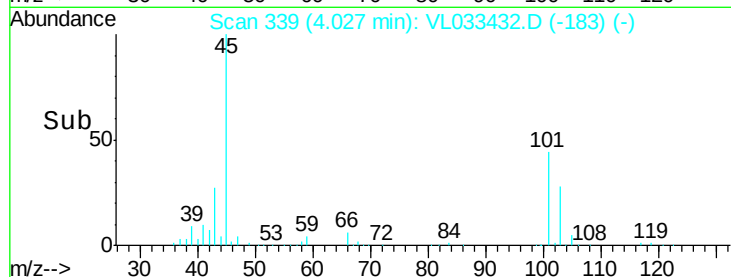
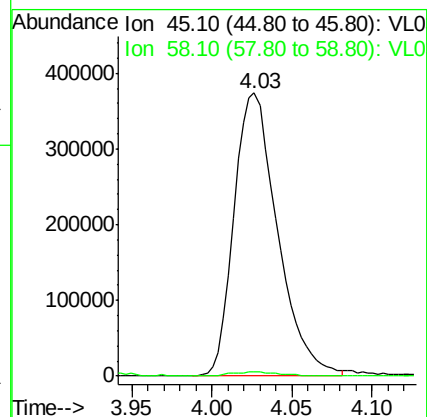
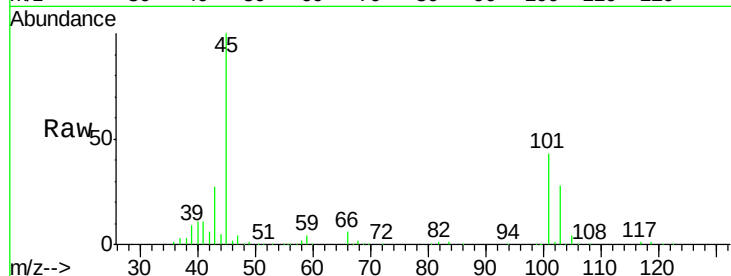
VSTDCCC010EC

Manual Integrations

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#20

Methylene Chloride

Concen: 9.819 ppbv

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tgt Ion: 84 Resp: 416577

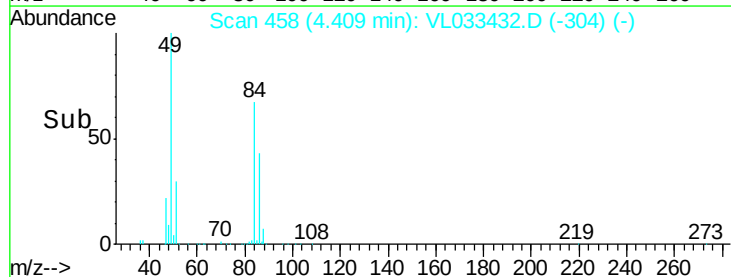
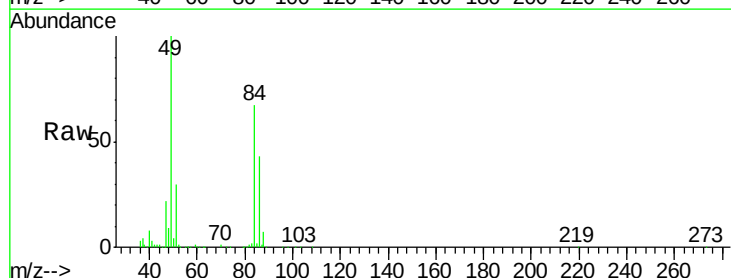
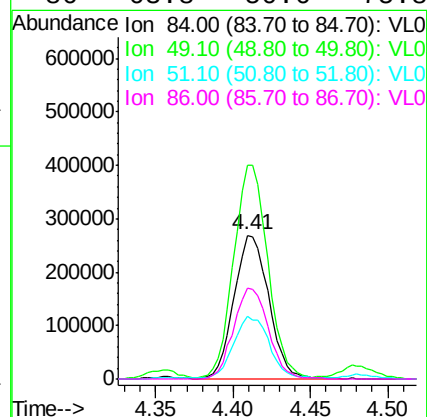
Ion Ratio Lower Upper

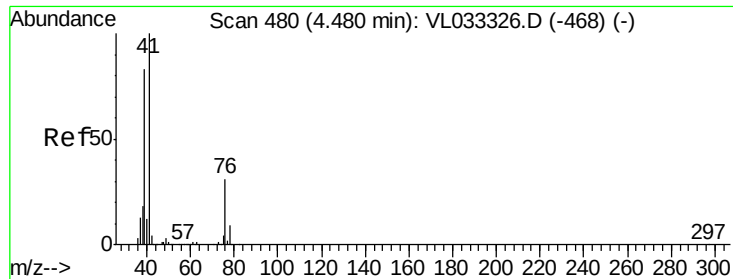
84 100

49 147.8 115.4 173.0

51 43.1 35.8 53.6

86 63.8 50.6 75.8





#21

Allvl Chloride

Concen: 11.731 ppbv

RT: 4.48 min Scan# 480

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

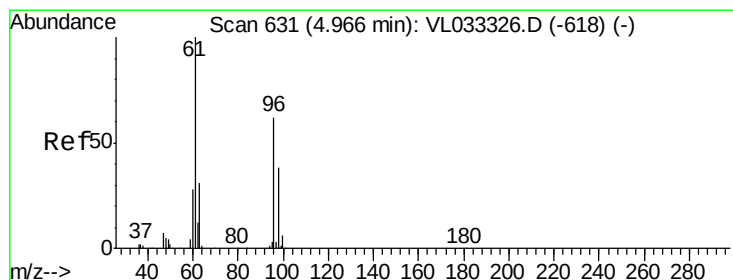
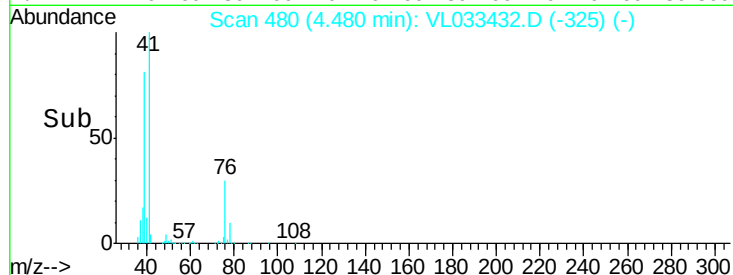
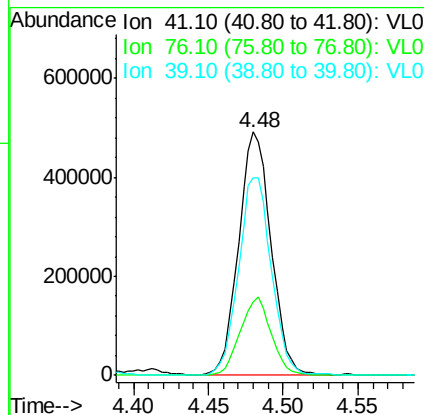
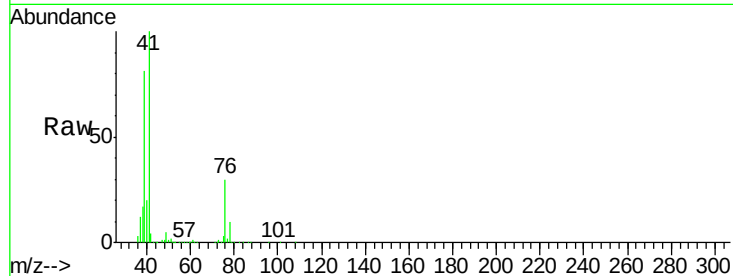
ClientSampleId :

VSTDCCC010EC

Tot Ion:	41	Resp:	740249
Ion Ratio	Lower	Upper	
41	100		
76	30.8	25.0	37.4
39	82.8	65.9	98.9

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 11.663 ppbv

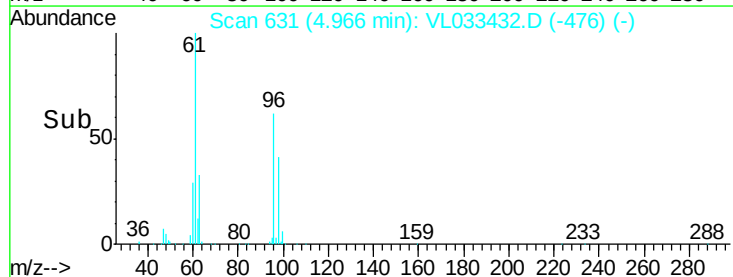
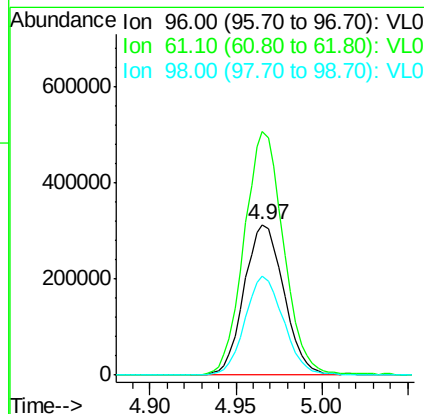
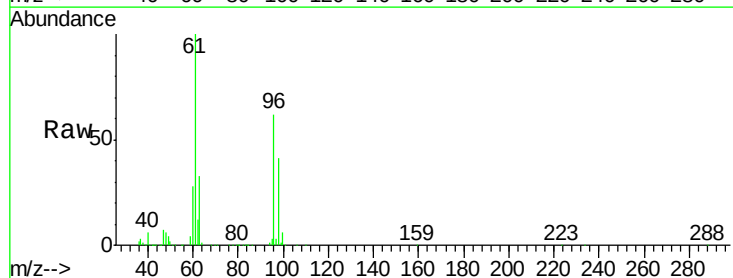
RT: 4.97 min Scan# 631

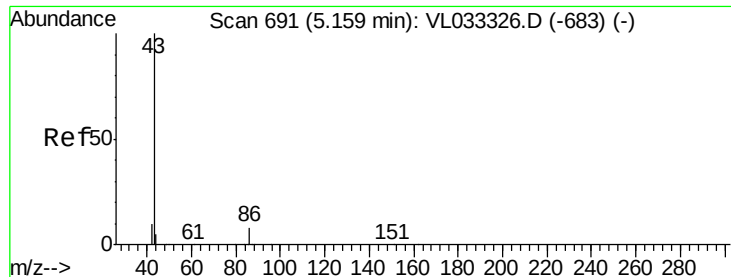
Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tgt Ion:	96	Resp:	502459
Ion Ratio	Lower	Upper	
96	100		
61	161.6	130.0	195.0
98	66.0	50.0	75.0





#23

Vinyl Acetate

Concen: 11.016 ppbv

RT: 5.16 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1657965

Ion	Ratio	Lower	Upper
43	100		
86	7.1	6.2	9.2
42	10.0	8.1	12.1
44	5.4	4.1	6.1

43 100

86 7.1 6.2 9.2

42 10.0 8.1 12.1

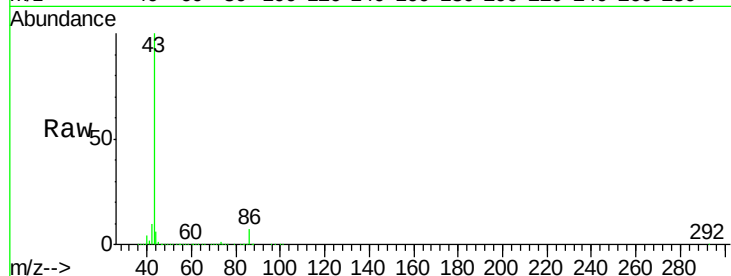
44 5.4 4.1 6.1

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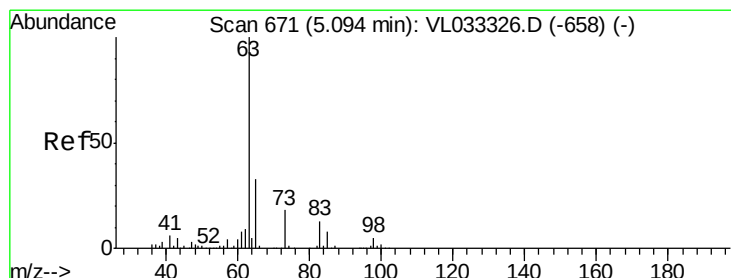
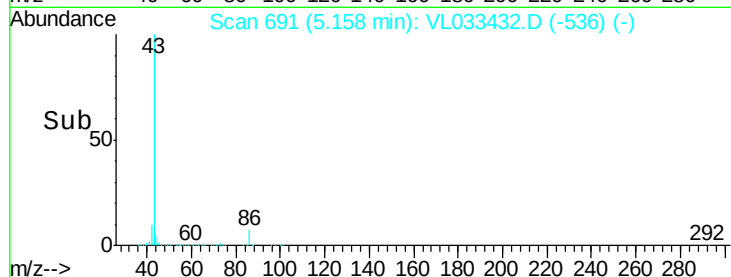
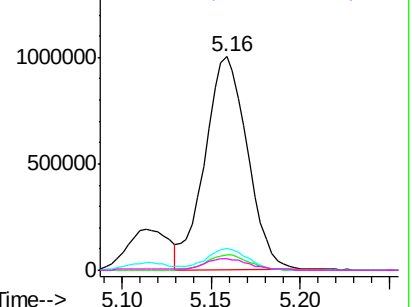


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 10.848 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

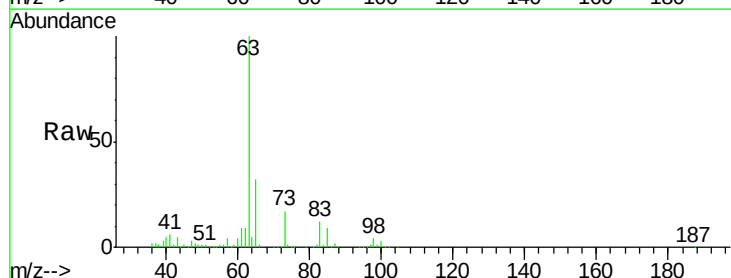
Tgt Ion: 63 Resp: 1179193

Ion	Ratio	Lower	Upper
63	100		
98	4.4	2.4	7.1
100	2.6	1.3	3.8

63 100

98 4.4 2.4 7.1

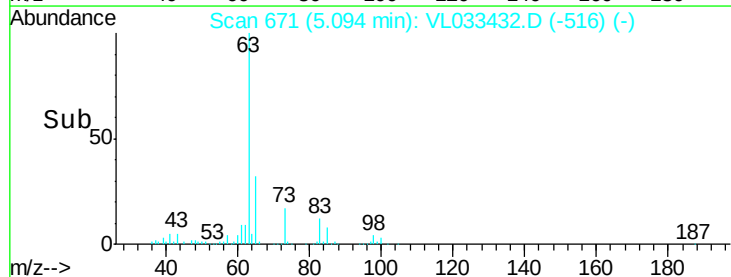
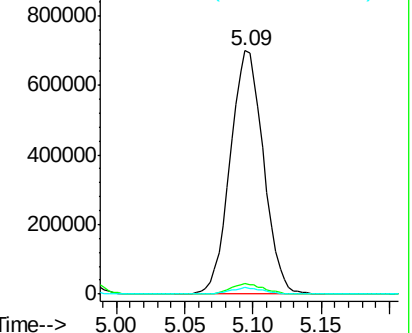
100 2.6 1.3 3.8

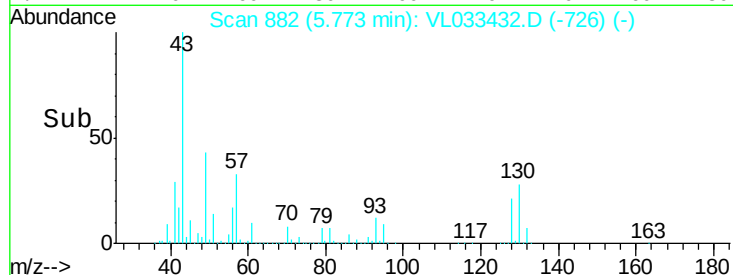
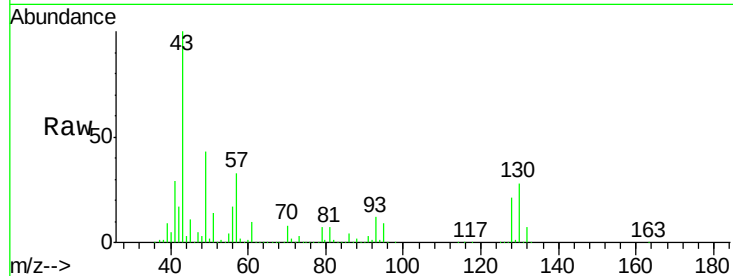
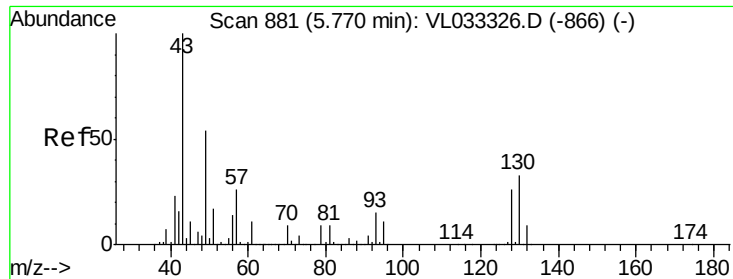


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

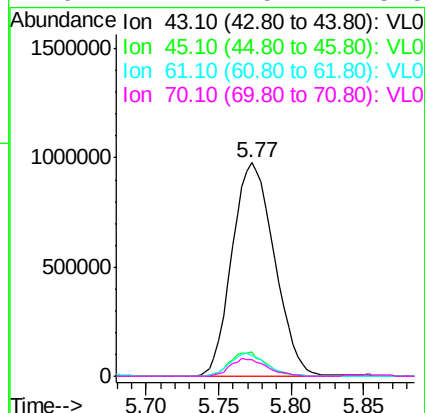
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 10.513 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

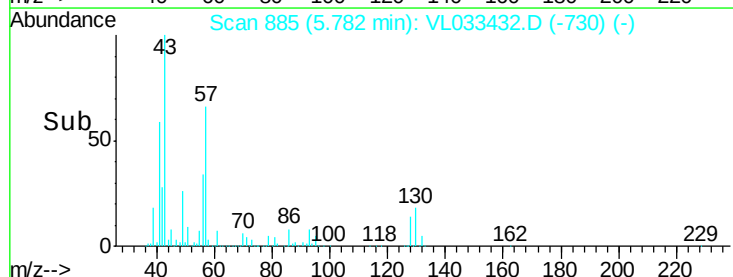
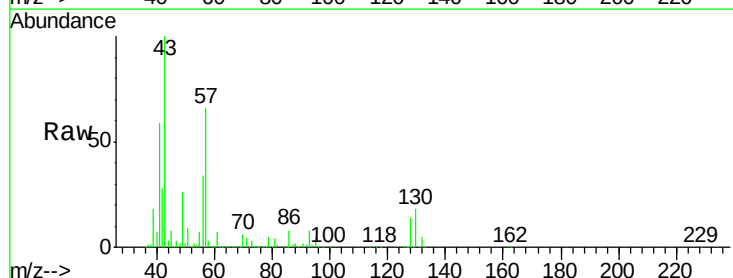
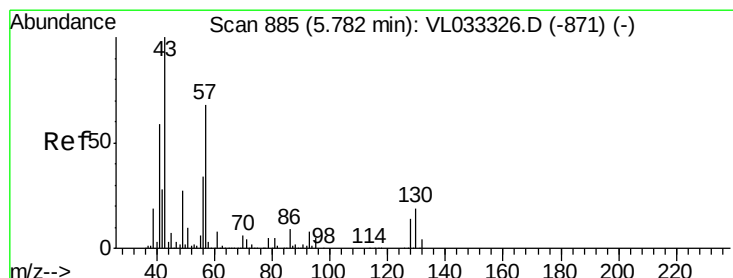
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
45	9.8	7.9	11.9	
61	9.3	7.4	11.2	
70	7.1	5.7	8.5	



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

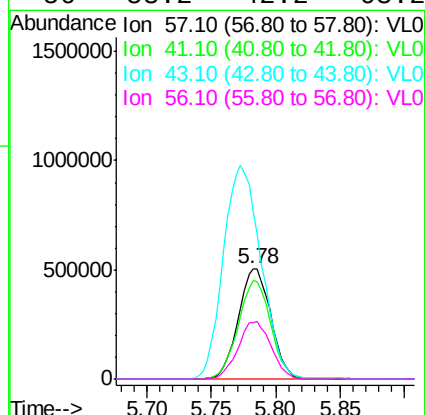
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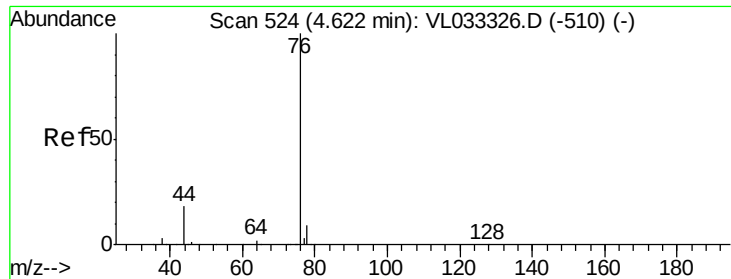
MMDadoda
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#26
Hexane
Concen: 10.450 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	89.8	70.5	105.7	
43	226.2	181.8	272.8	
56	53.2	42.2	63.2	





#27

Carbon Disulfide

Concen: 12.336 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1200528

Ion Ratio Lower Upper

76 100

44 19.0 15.2 22.8

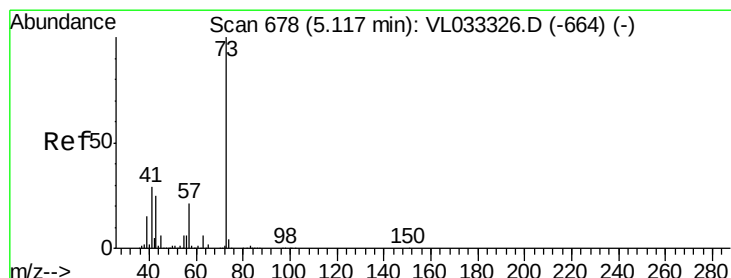
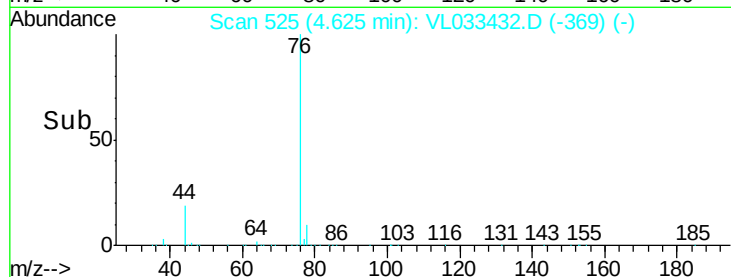
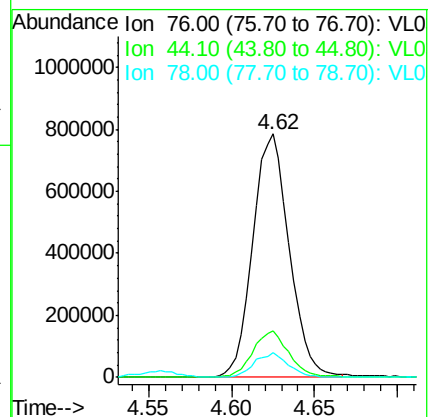
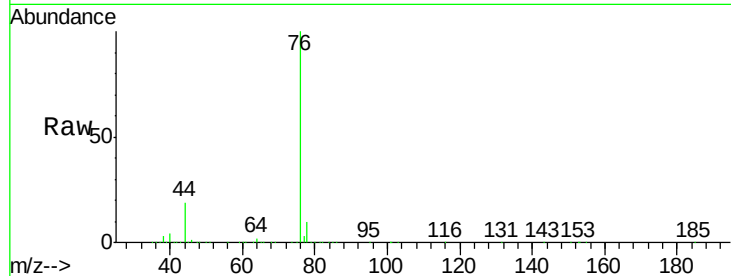
78 9.5 7.2 10.8

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 11.032 ppbv

RT: 5.11 min Scan# 677

Delta R.T. -0.00 min

Lab File: VL033432.D

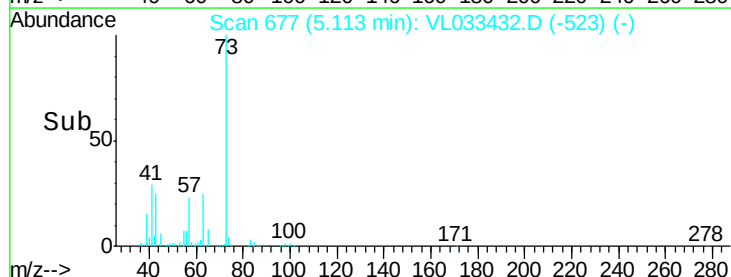
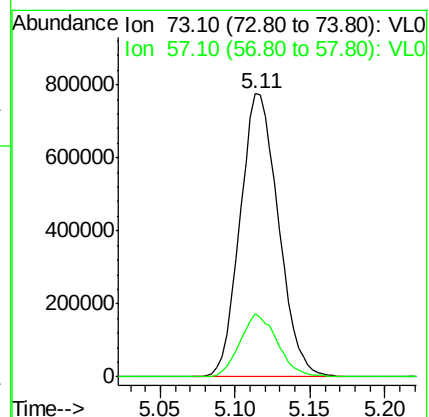
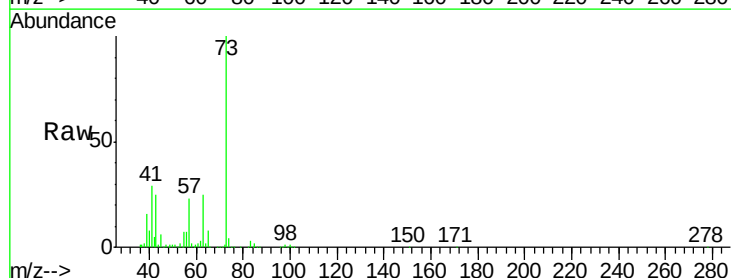
Acq: 22 Mar 2019 14:21

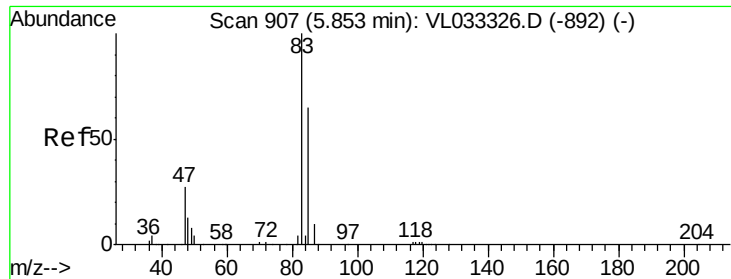
Tgt Ion: 73 Resp: 1385212

Ion Ratio Lower Upper

73 100

57 21.8 17.4 26.0





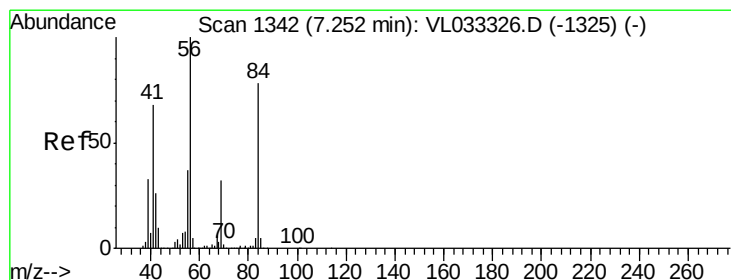
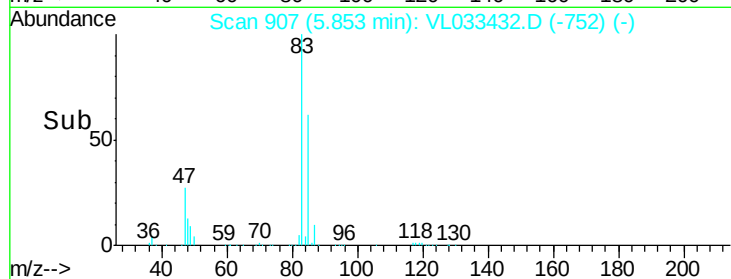
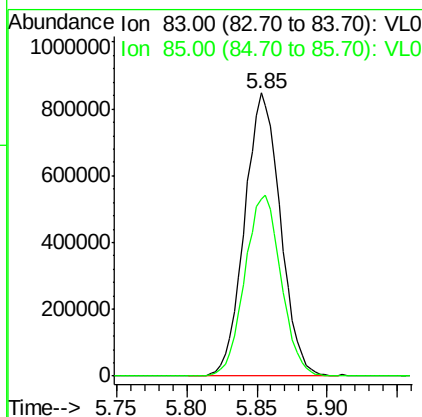
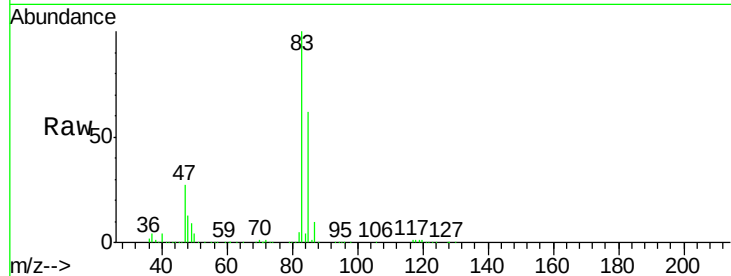
#29
Chloroform
Concen: 10.899 ppbv
RT: 5.85 min Scan# 907
Delta R.T. -0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1508658
Ion Ratio Lower Upper
83 100
85 62.3 52.0 78.0

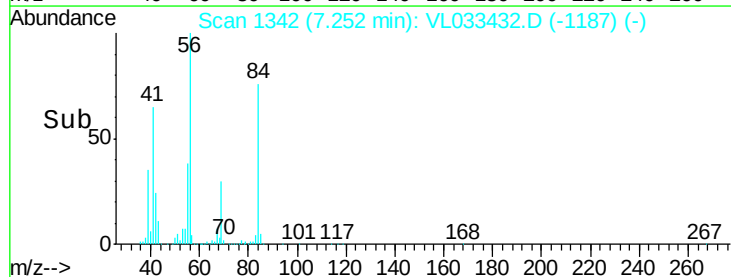
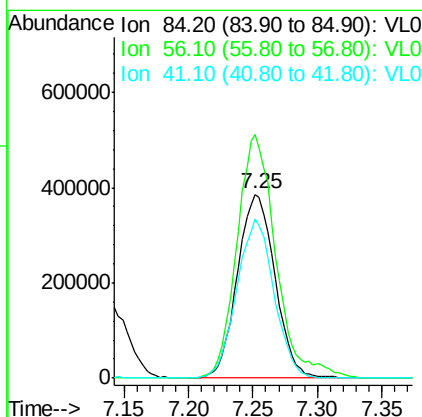
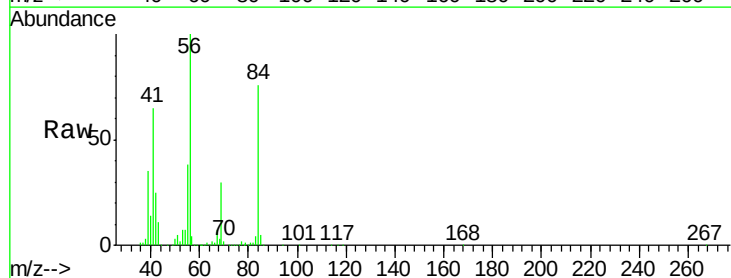
Manual Integrations
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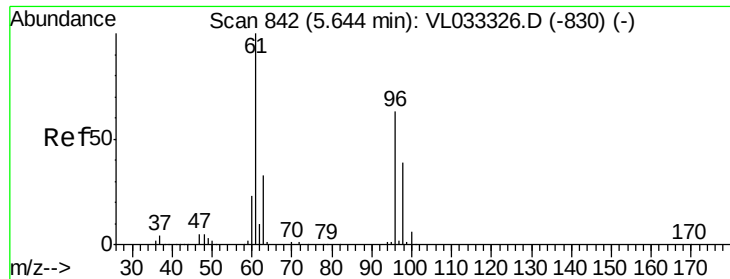
MMDadoda
3/25/2019 8:28:15 AM



#30
Cyclohexane
Concen: 11.571 ppbv
RT: 7.25 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Tgt Ion: 84 Resp: 784243
Ion Ratio Lower Upper
84 100
56 137.4 111.3 166.9
41 85.4 69.6 104.4





#31

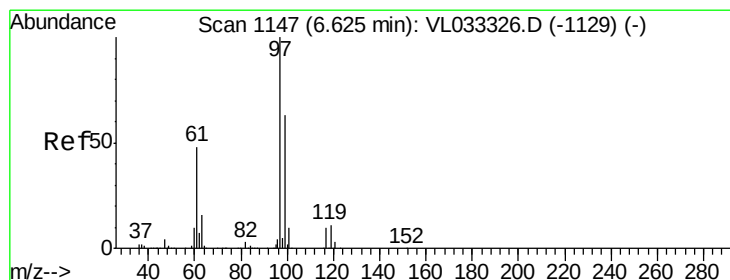
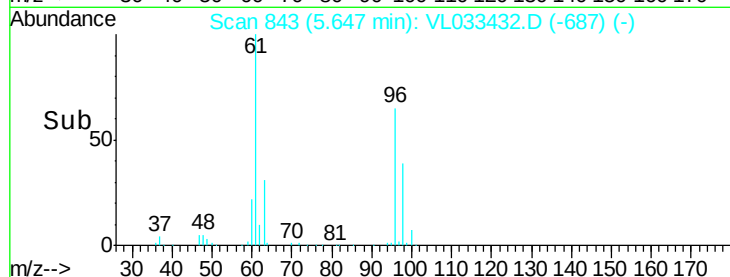
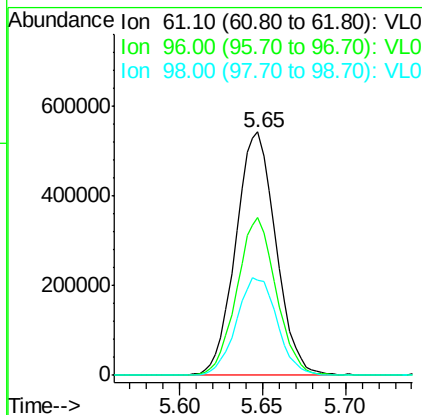
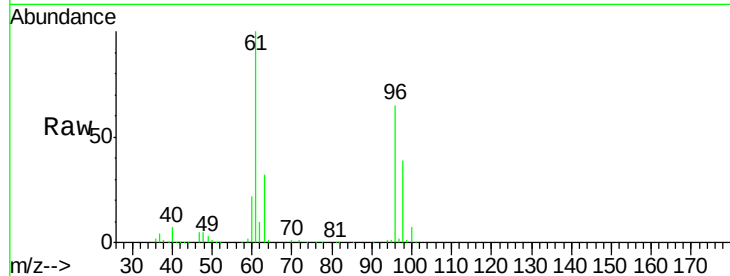
cis-1,2-Dichloroethene
Concen: 10.810 ppbv
RT: 5.65 min Scan# 843
Delta R.T. 0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.7	50.3	75.5
98	39.0	31.5	47.3

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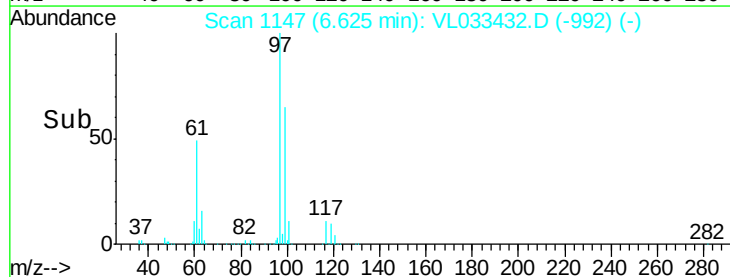
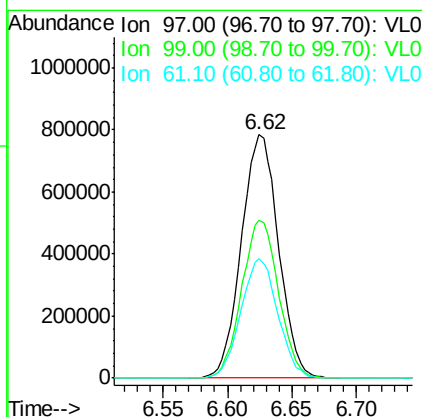
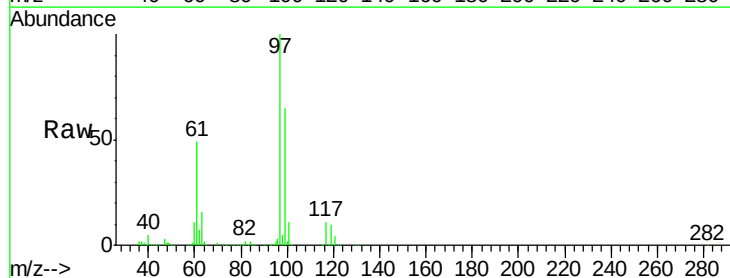
MMDadoda
3/25/2019 8:28:15 AM

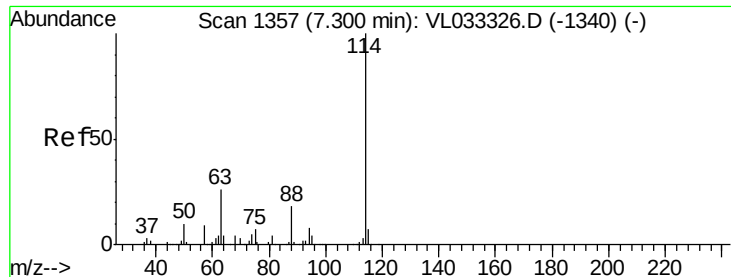


#32

1,1,1-Trichloroethane
Concen: 11.584 ppbv
RT: 6.62 min Scan# 1147
Delta R.T. -0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.5	51.0	76.6
61	49.1	39.3	58.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:114 Resp: 2032092

Ion Ratio Lower Upper

114 100

63 27.2 21.4 32.2

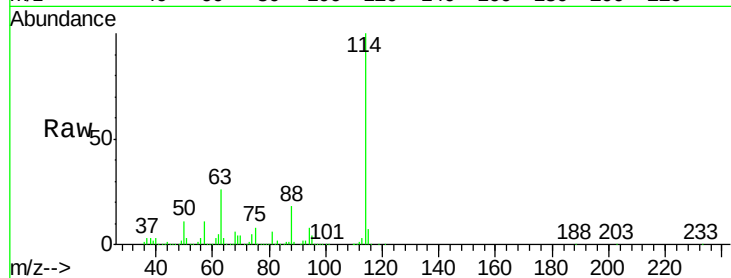
88 18.5 14.5 21.7

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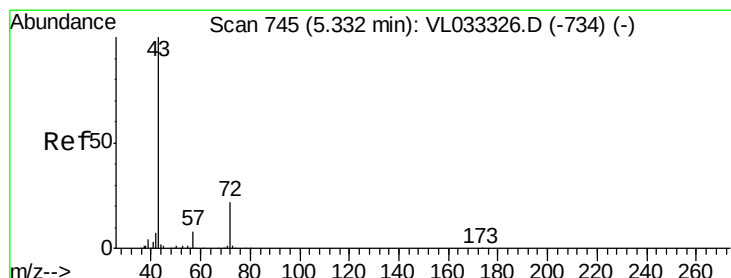
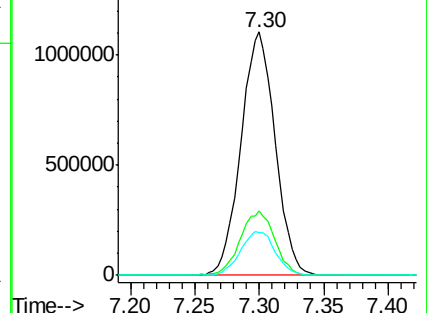
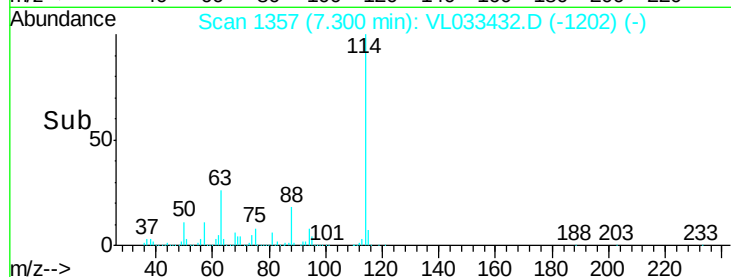
3/25/2019 8:28:15 AM



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 9.790 ppbv

RT: 5.33 min Scan# 745

Delta R.T. -0.00 min

Lab File: VL033432.D

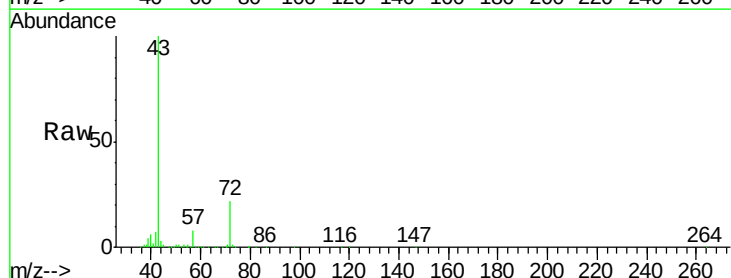
Acq: 22 Mar 2019 14:21

Tgt Ion: 43 Resp: 1306529

Ion Ratio Lower Upper

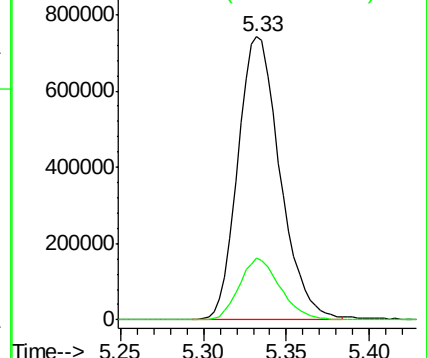
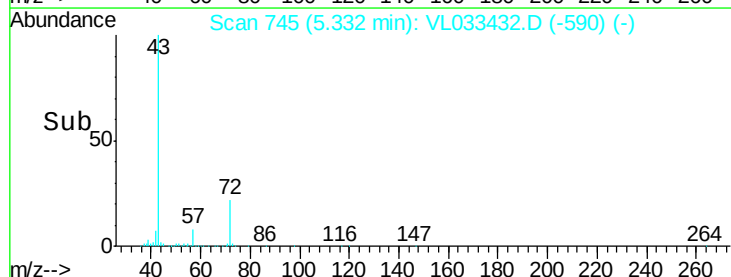
43 100

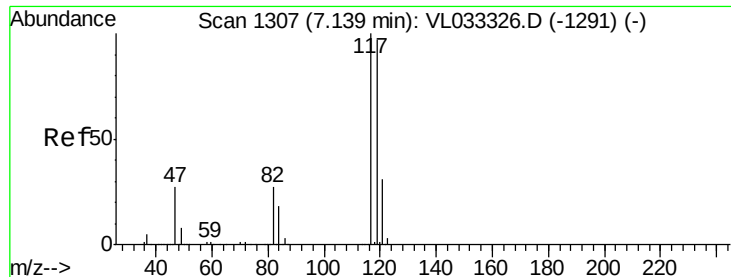
72 21.4 17.7 26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 11.599 ppbv

RT: 7.14 min Scan# 1307

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1661749

Ion Ratio Lower Upper

117 100

119 97.7 77.4 116.0

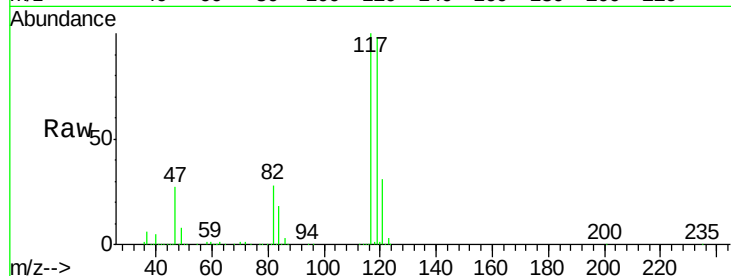
121 30.9 24.9 37.3

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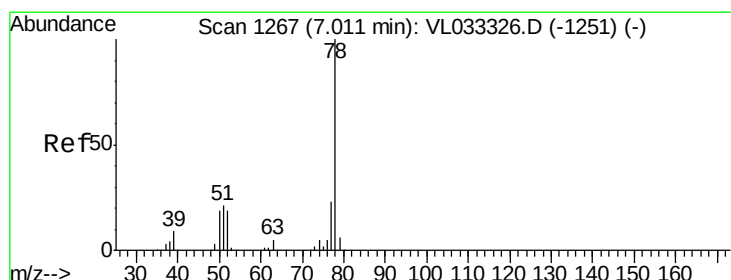
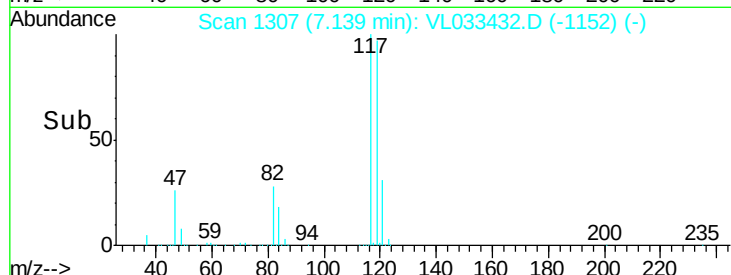
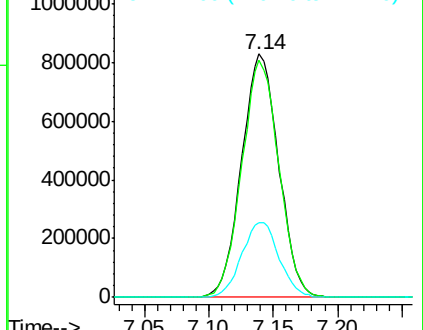
3/25/2019 8:28:15 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 10.575 ppbv

RT: 7.01 min Scan# 1267

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

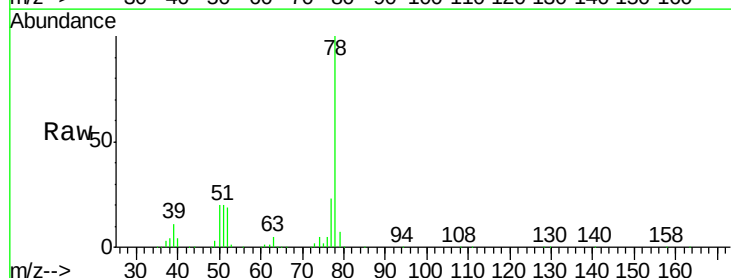
Tgt Ion: 78 Resp: 1923178

Ion Ratio Lower Upper

78 100

77 22.6 18.1 27.1

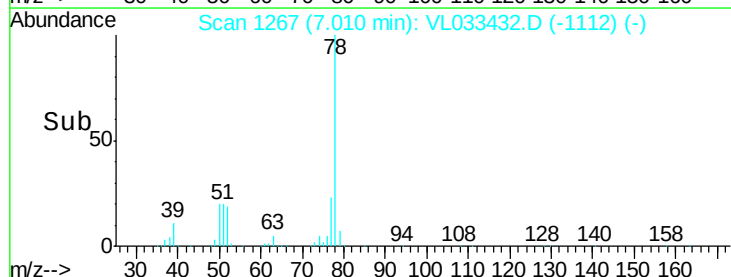
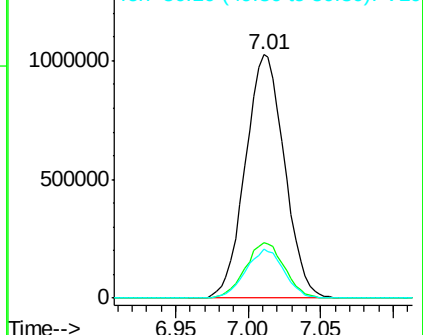
50 20.1 15.2 22.8

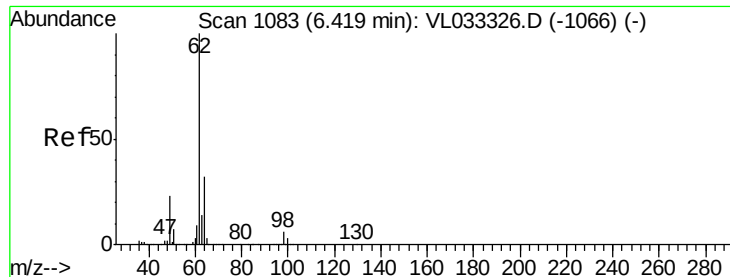


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





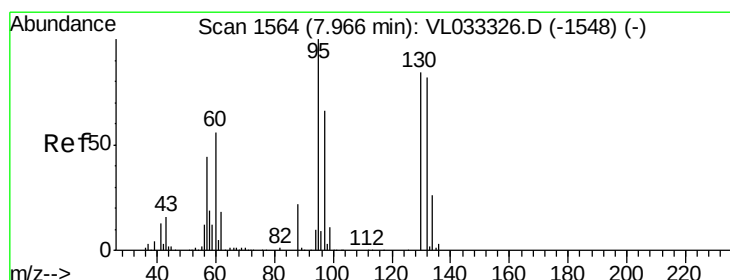
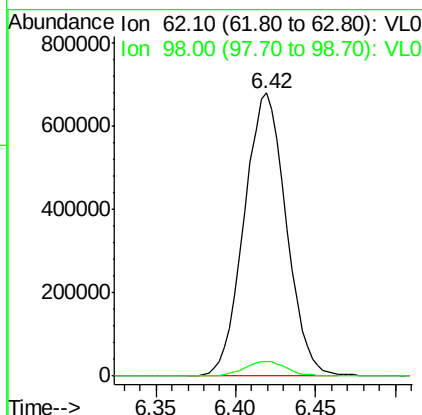
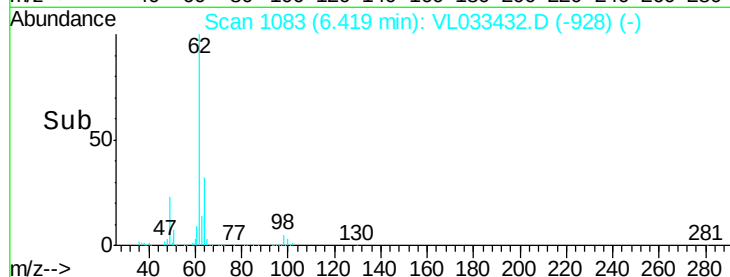
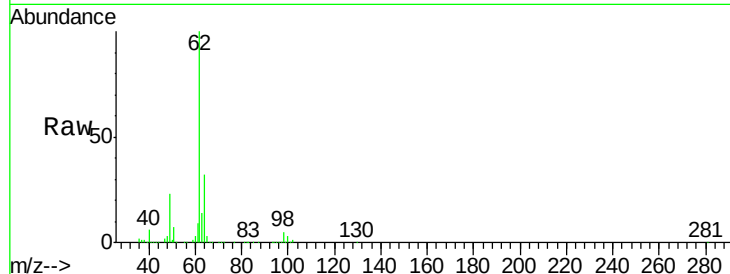
#37
 1,2-Dichloroethane
 Concen: 10.626 ppbv
 RT: 6.42 min Scan# 1083
 Delta R.T. -0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1221876
 Ion Ratio Lower Upper
 62 100
 98 5.4 4.5 6.7

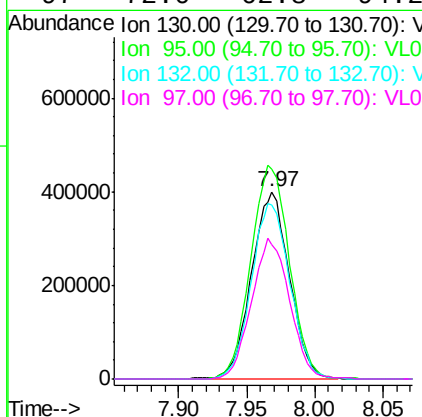
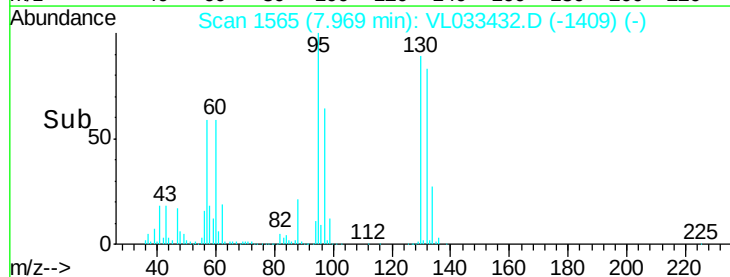
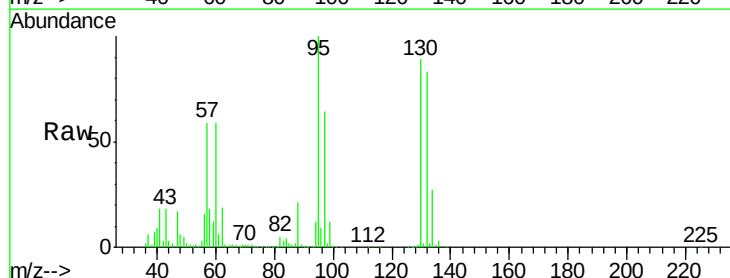
Manual Integrations
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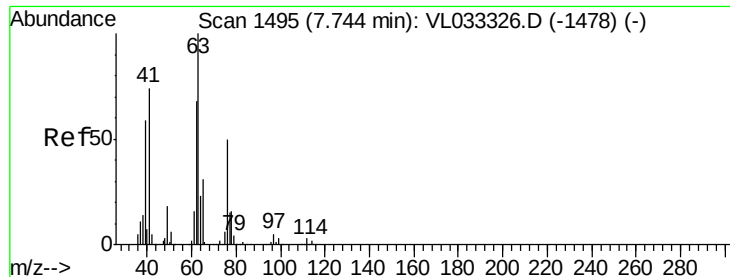
MMDadoda
 3/25/2019 8:28:15 AM



#38
 Trichloroethene
 Concen: 11.125 ppbv
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Tgt Ion:130 Resp: 765612
 Ion Ratio Lower Upper
 130 100
 95 112.5 95.2 142.8
 132 93.2 77.7 116.5
 97 72.0 62.8 94.2





#39

1,2-Dichloropropane

Concen: 10.801 ppbv

RT: 7.74 min Scan# 1495

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

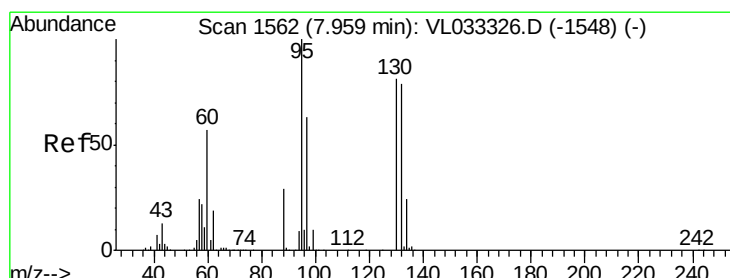
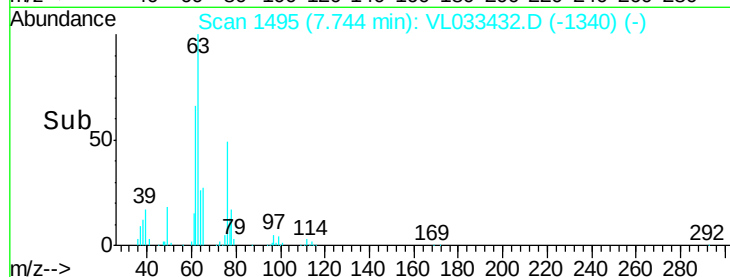
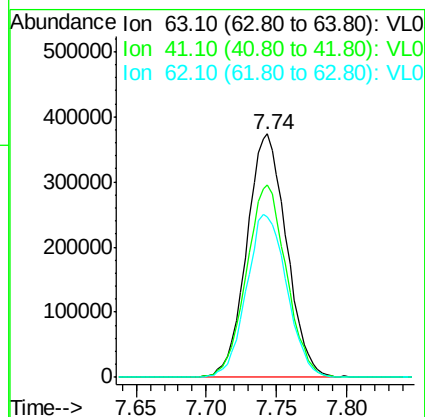
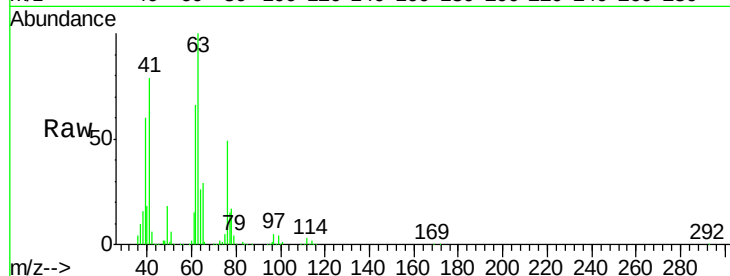
ClientSampleId :

VSTDCCC010EC

Tot Ion:	63	Resp:	735632
Ion	Ratio	Lower	Upper
63	100		
41	79.0	59.5	89.3
62	65.8	54.7	82.1

Manual Integrations
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#40

1,4-Dioxane

Concen: 10.232 ppbv

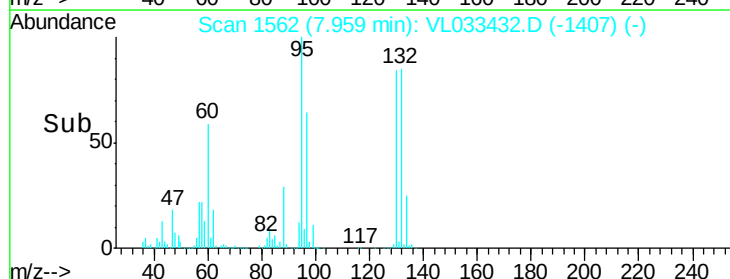
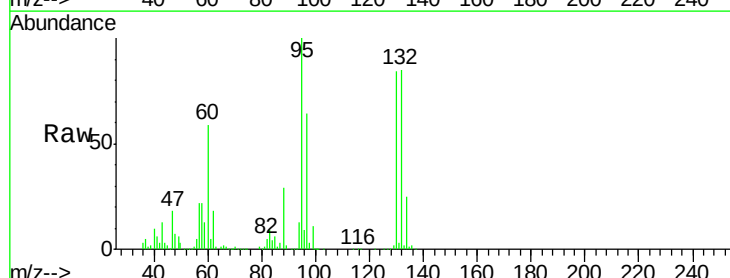
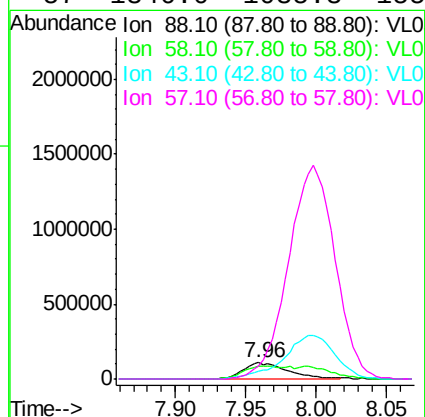
RT: 7.96 min Scan# 1562

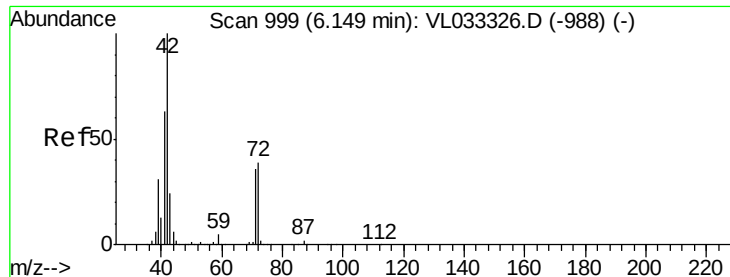
Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tgt Ion:	88	Resp:	245386
Ion	Ratio	Lower	Upper
88	100		
58	139.3	107.9	161.9
43	301.8	230.8	346.2
57	1346.0	1035.3	1552.9





#41

Tetrahydrofuran

Concen: 10.708 ppbv

RT: 6.15 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

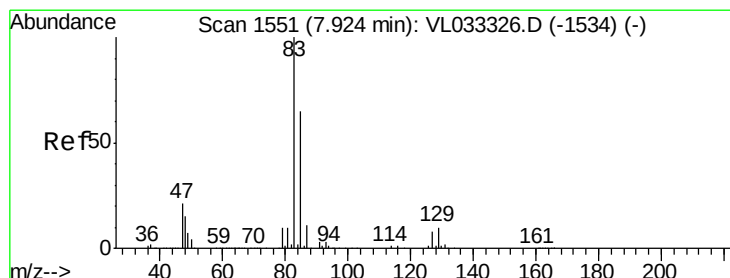
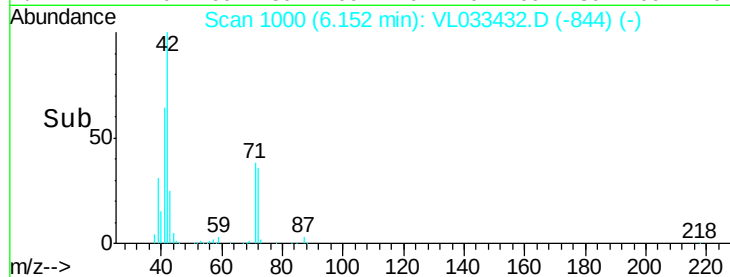
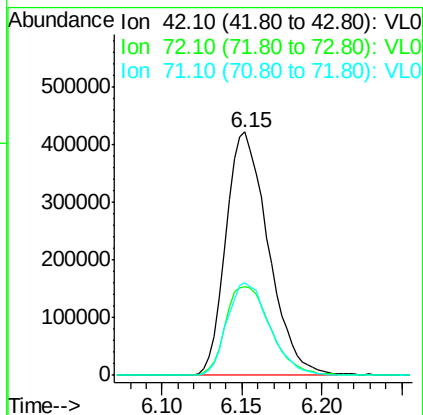
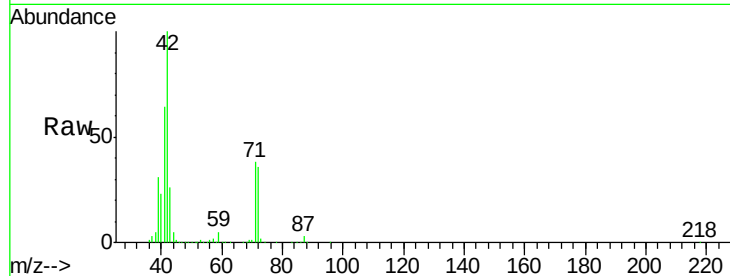
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	762634
Ion	Ratio	Lower	Upper
42	100		
72	38.9	31.6	47.4
71	38.3	29.9	44.9

Manual Integrations
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#42

Bromodichloromethane

Concen: 11.298 ppbv

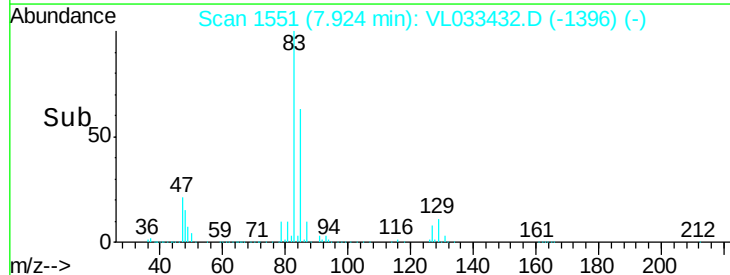
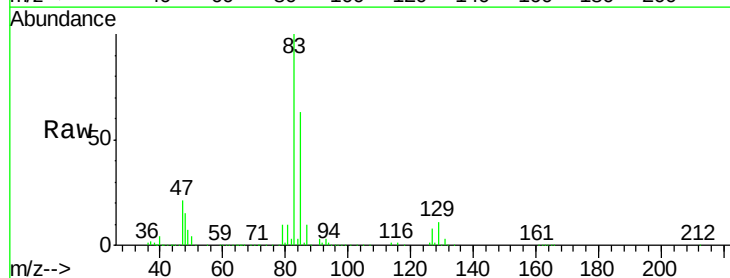
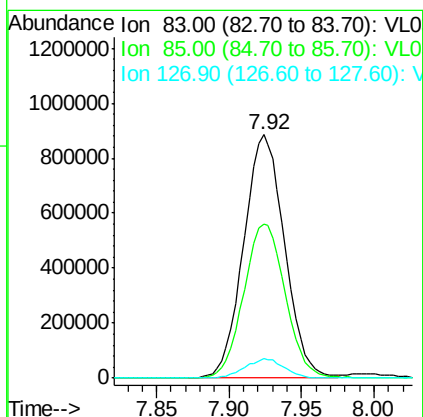
RT: 7.92 min Scan# 1551

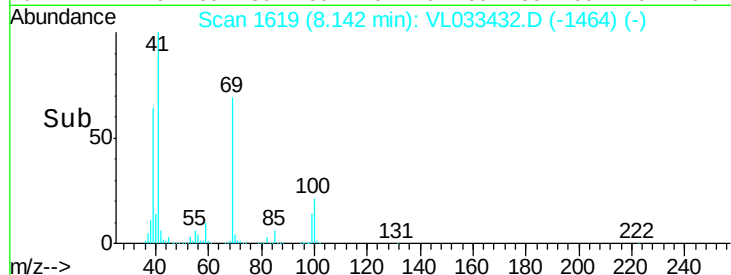
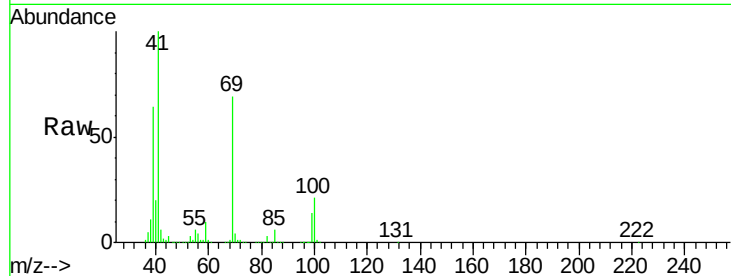
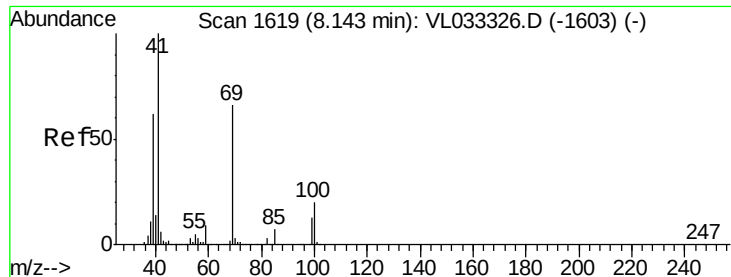
Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tgt Ion:	83	Resp:	1741795
Ion	Ratio	Lower	Upper
83	100		
85	63.1	51.8	77.6
127	8.2	6.2	9.2





#43

Methyl Methacrylate

Concen: 11.250 ppbv

RT: 8.14 min Scan# 1619

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tot Ion:	69	Resp:	796644
Ion Ratio	Lower	Upper	
69	100		
41	148.5	119.5	179.3
100	30.7	24.4	36.6

Instrument :

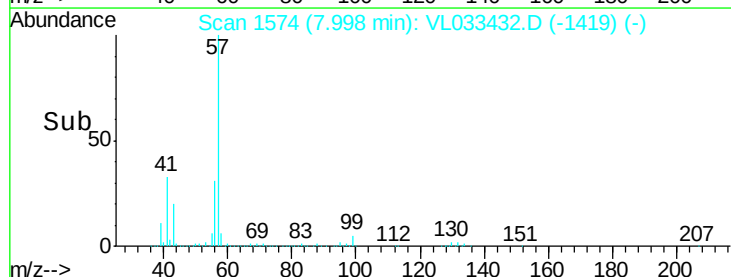
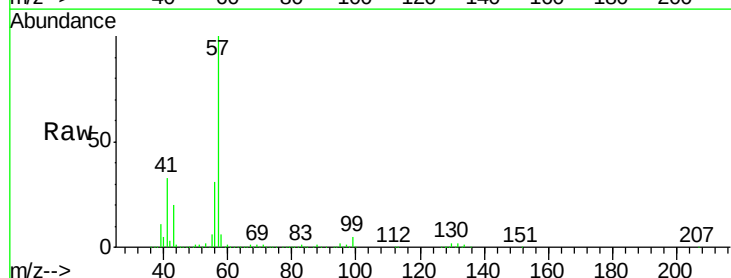
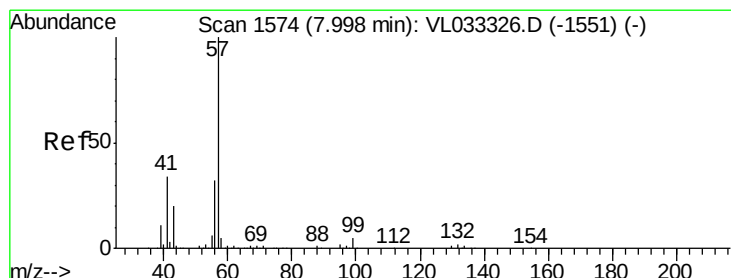
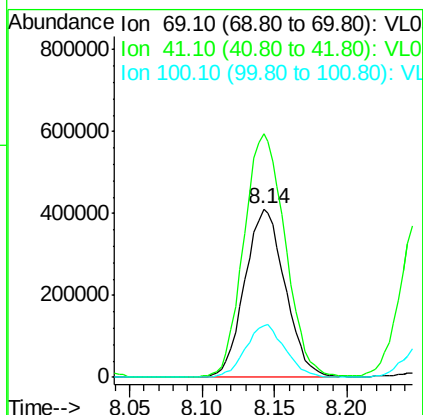
MSVOA_L

ClientSampleId :

VSTDCCC010EC

Manual Integrations
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MMDadoda
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#44

2,2,4-Trimethylpentane

Concen: 10.951 ppbv

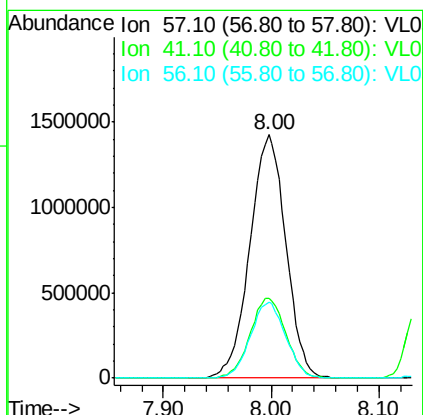
RT: 8.00 min Scan# 1574

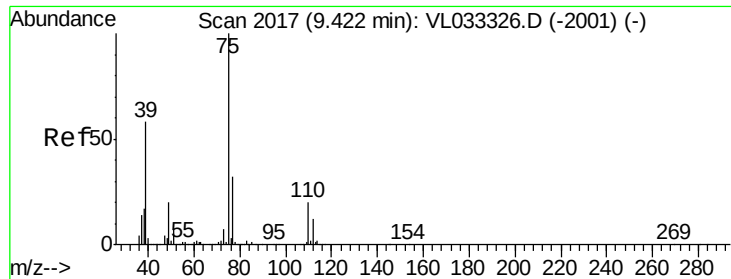
Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tgt Ion:	57	Resp:	3298488
Ion Ratio	Lower	Upper	
57	100		
41	32.9	26.0	39.0
56	30.7	24.6	36.8





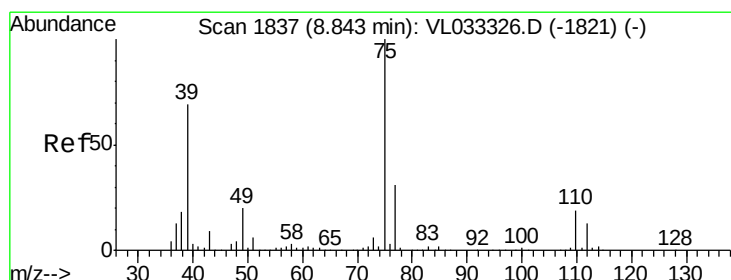
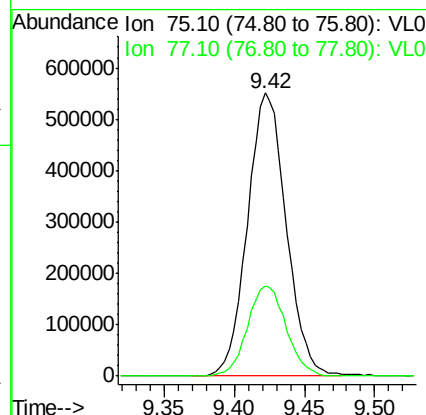
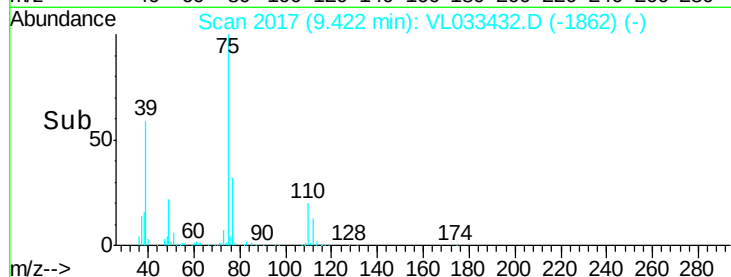
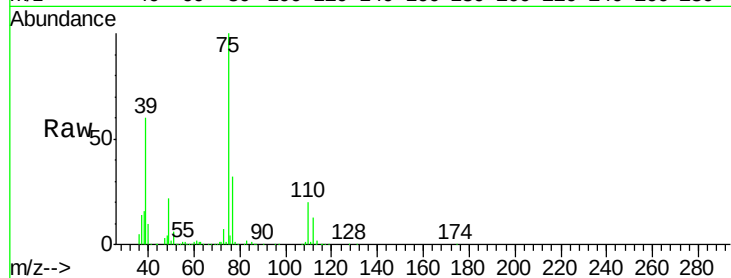
#45
 t-1,3-Dichloropropene
 Concen: 12.130 ppbv
 RT: 9.42 min Scan# 2017
 Delta R.T. -0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 75 Resp: 1060440
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.5 38.3

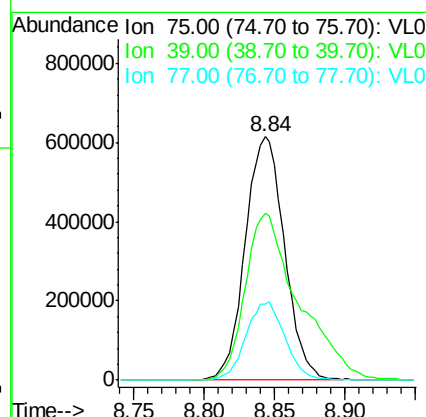
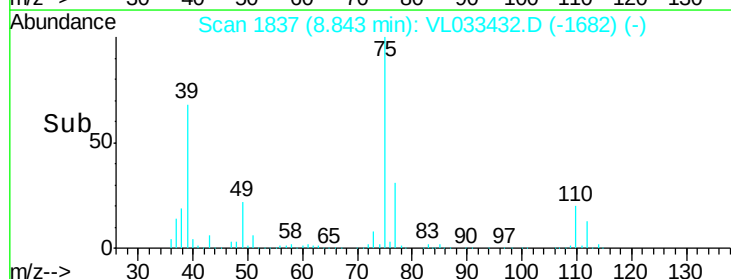
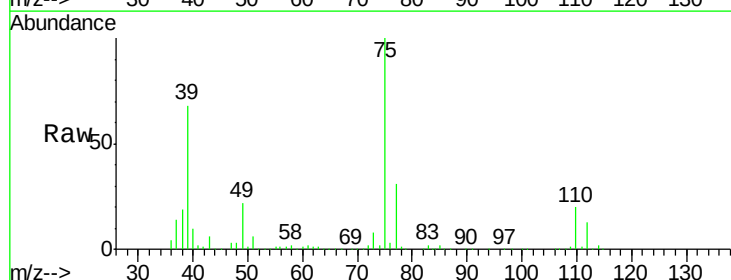
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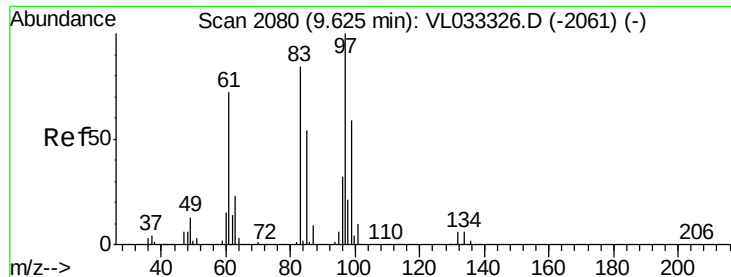
MMDadoda
 3/25/2019 8:28:15 AM



#46
 cis-1,3-Dichloropropene
 Concen: 11.646 ppbv
 RT: 8.84 min Scan# 1837
 Delta R.T. -0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Tgt Ion: 75 Resp: 1198820
 Ion Ratio Lower Upper
 75 100
 39 68.2 55.0 82.6
 77 31.4 24.5 36.7





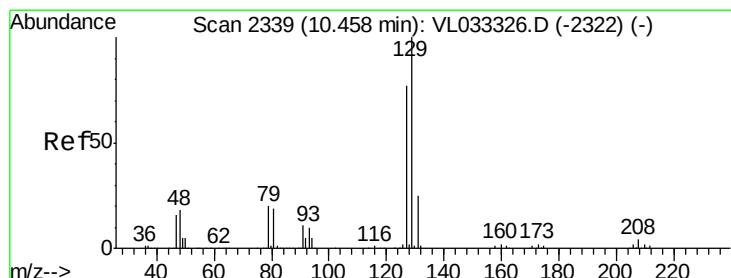
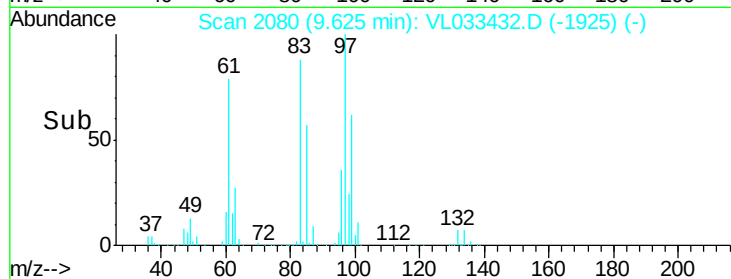
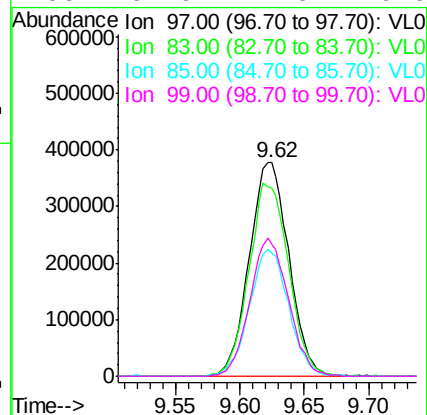
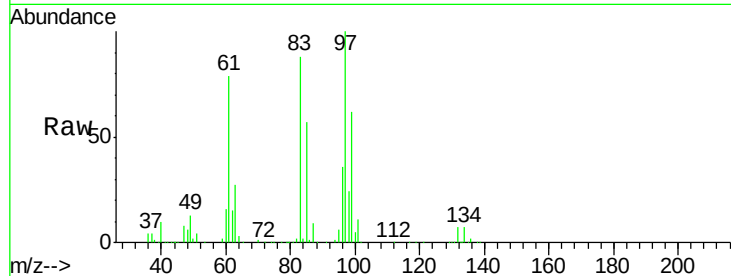
#47
 1,1,2-Trichloroethane
 Concen: 10.729 ppbv
 RT: 9.62 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	88.2	67.4	101.0	
85	57.2	43.0	64.4	
99	61.9	47.0	70.6	

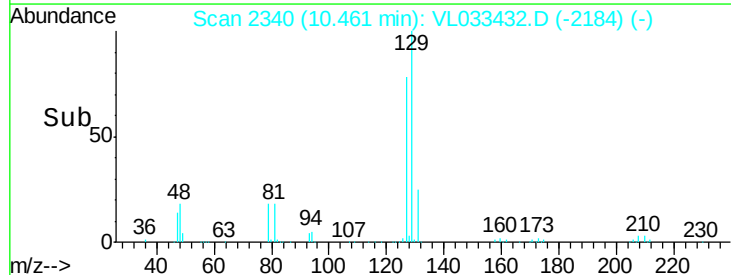
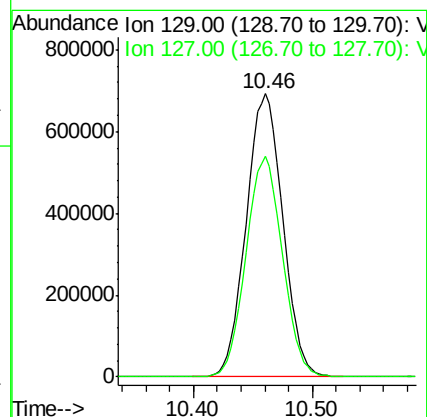
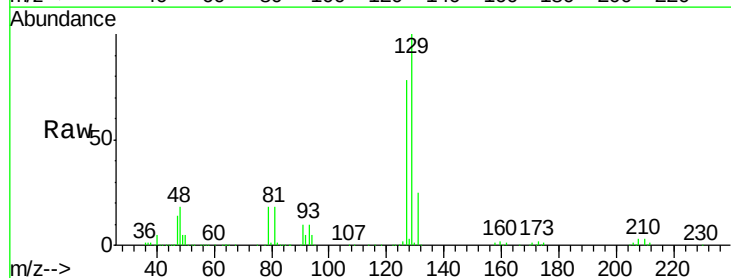
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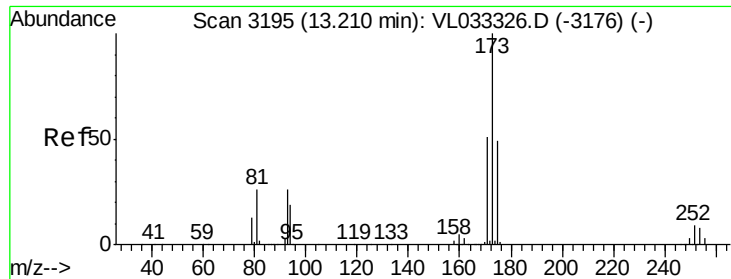
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#48
 Dibromochloromethane
 Concen: 11.715 ppbv
 RT: 10.46 min Scan# 2340
 Delta R.T. 0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	77.5	38.9	116.6	





#49

Bromoform

Concen: 10.918 ppbv

RT: 13.21 min Scan# 3195

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1307009

Ion Ratio Lower Upper

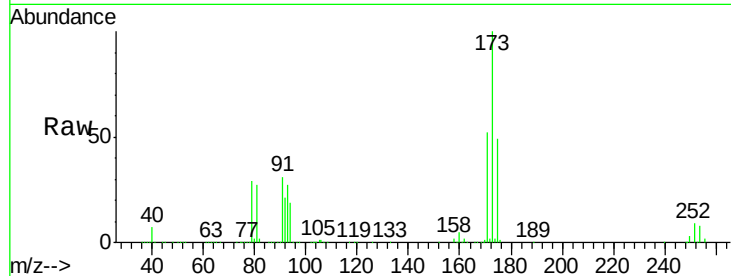
173 100

175 49.1 39.0 58.6

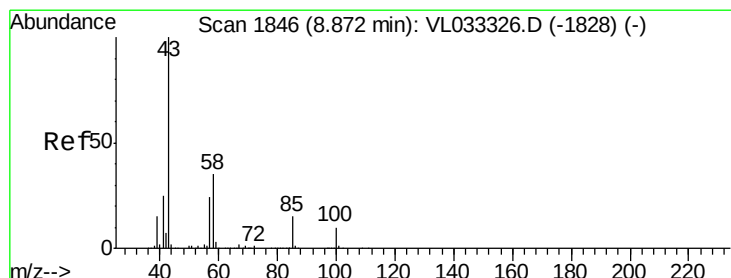
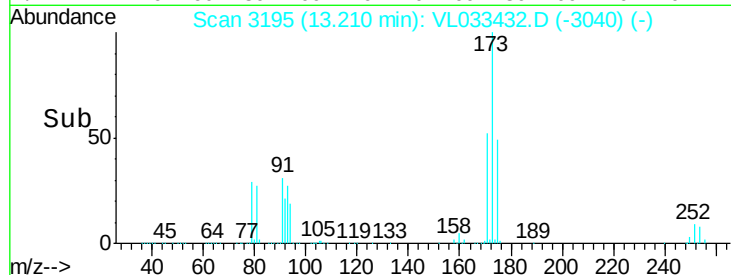
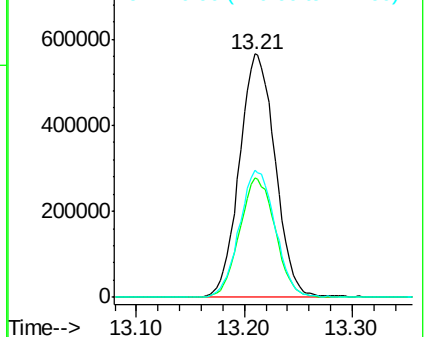
171 52.2 41.7 62.5

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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: 10.420 ppbv

RT: 8.88 min Scan# 1847

Delta R.T. 0.00 min

Lab File: VL033432.D

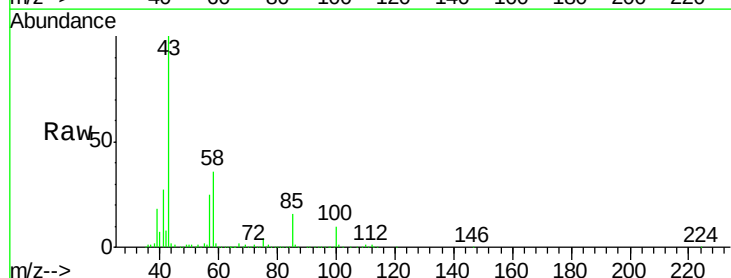
Acq: 22 Mar 2019 14:21

Tgt Ion: 43 Resp: 1964135

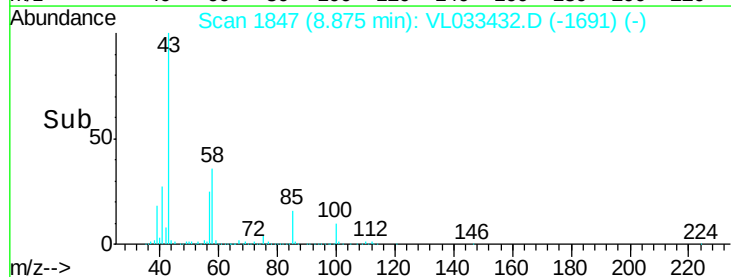
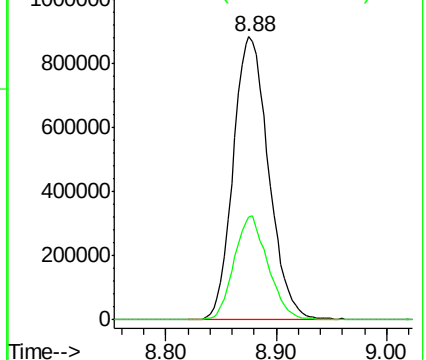
Ion Ratio Lower Upper

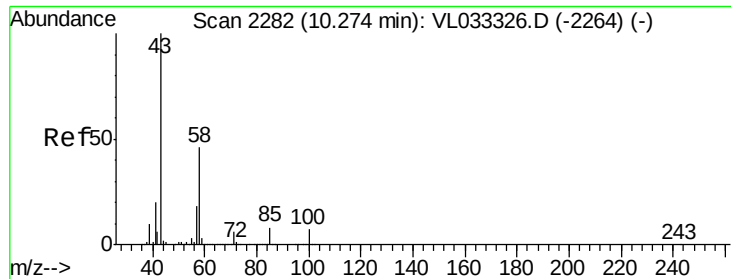
43 100

58 35.3 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 10.686 ppbv

RT: 10.28 min Scan# 2283

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1554049

Ion Ratio Lower Upper

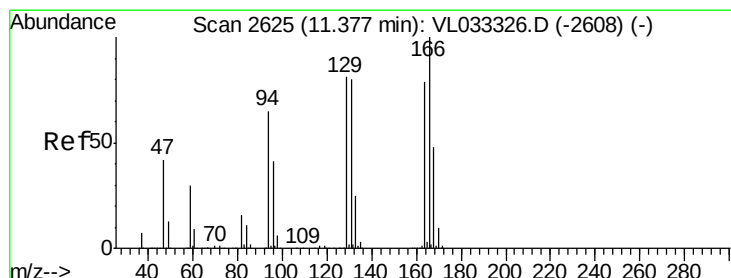
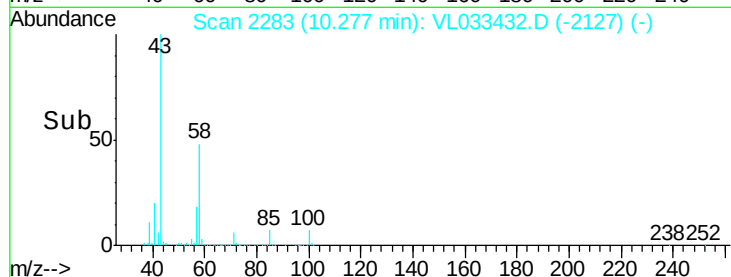
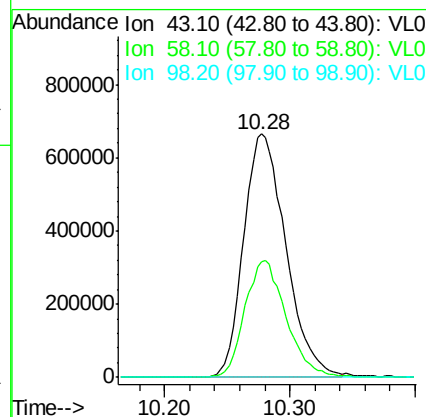
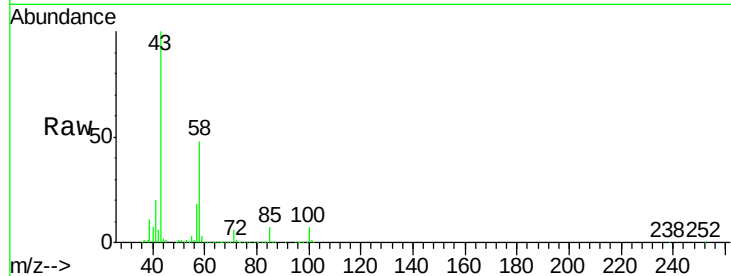
43 100

58 47.3 38.0 57.0

98 0.3 0.1 0.1#

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#52

Tetrachloroethene

Concen: 9.682 ppbv

RT: 11.38 min Scan# 2626

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tgt Ion: 164 Resp: 733532

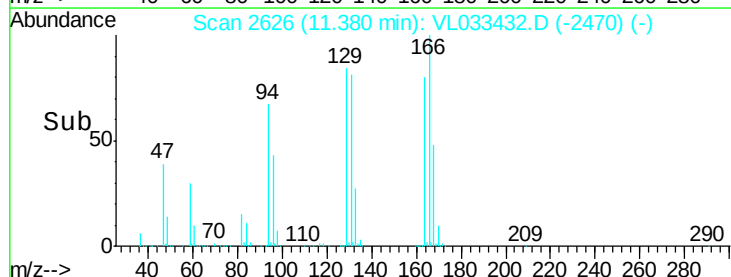
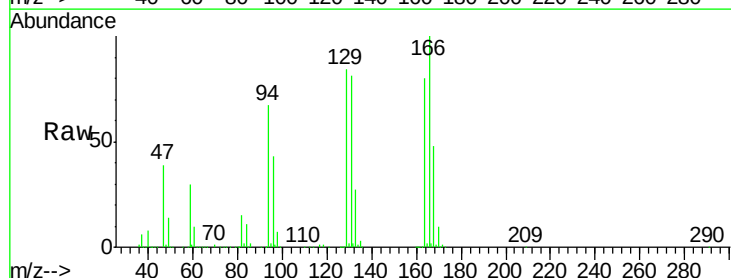
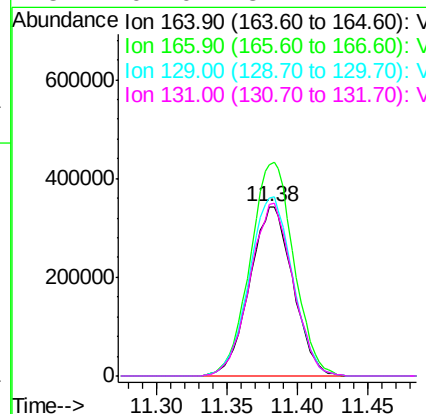
Ion Ratio Lower Upper

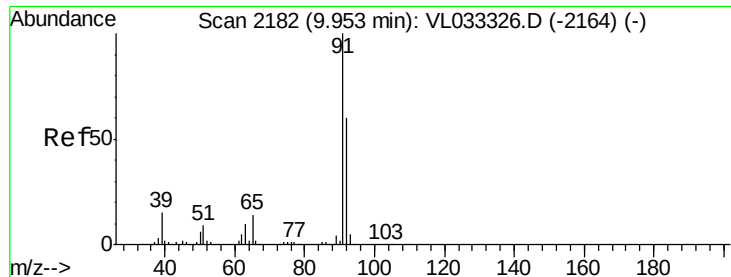
164 100

166 125.0 101.5 152.3

129 104.9 82.2 123.2

131 101.0 81.1 121.7





#53

Toluene

Concen: 11.008 ppbv

RT: 9.96 min Scan# 2183

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2274657

Ion Ratio Lower Upper

91 100

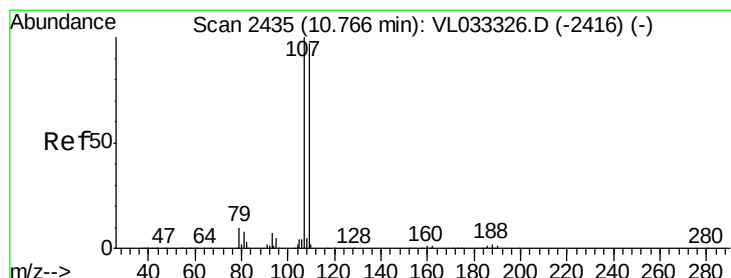
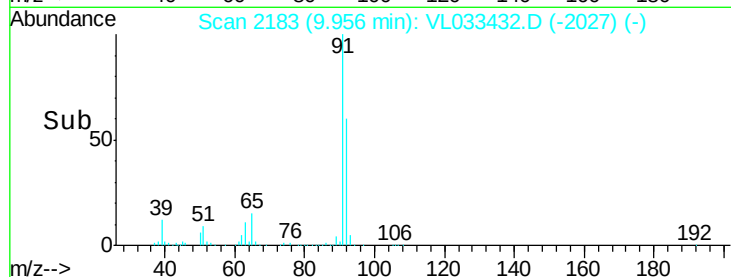
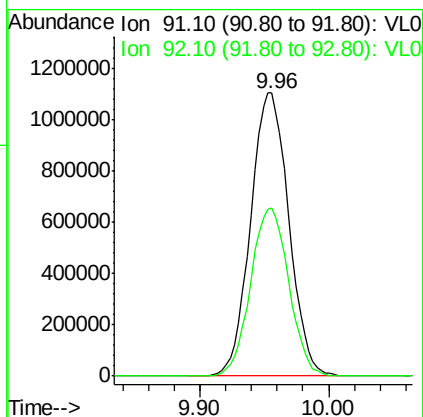
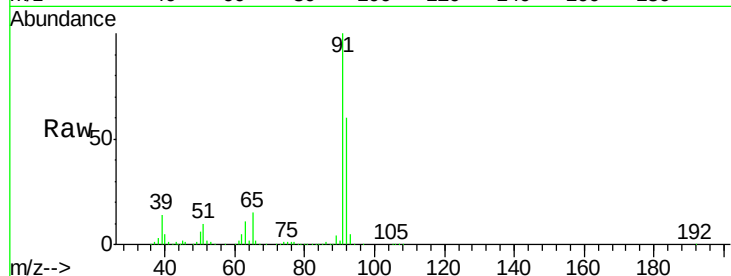
92 59.5 47.4 71.0

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#54

1,2-Dibromoethane

Concen: 10.259 ppbv

RT: 10.77 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VL033432.D

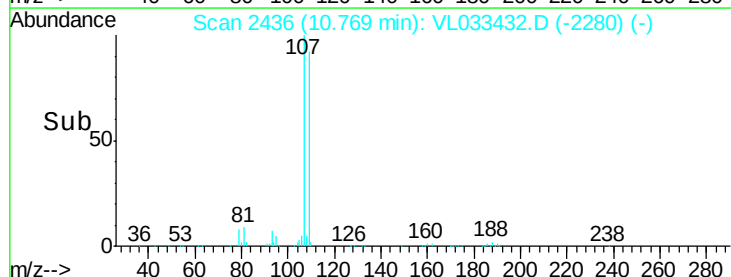
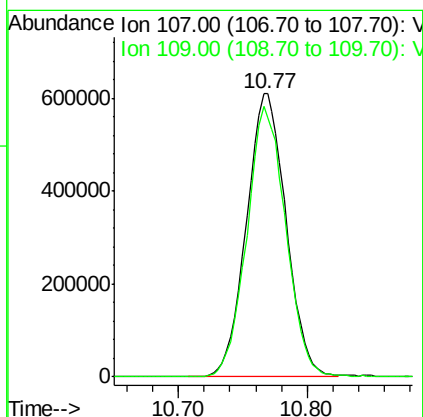
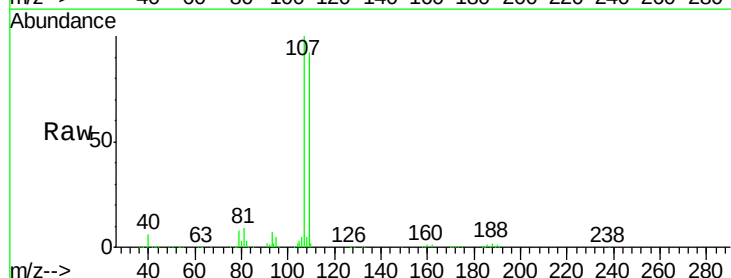
Acq: 22 Mar 2019 14:21

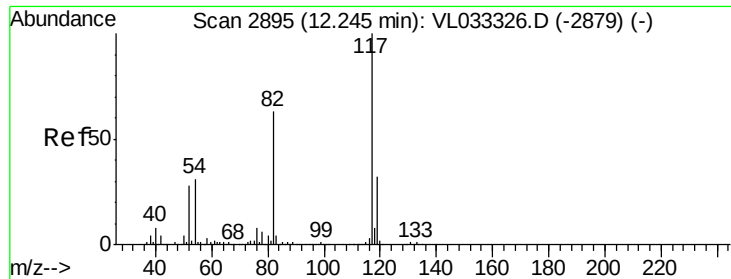
Tgt Ion: 107 Resp: 1304958

Ion Ratio Lower Upper

107 100

109 91.6 77.2 115.8





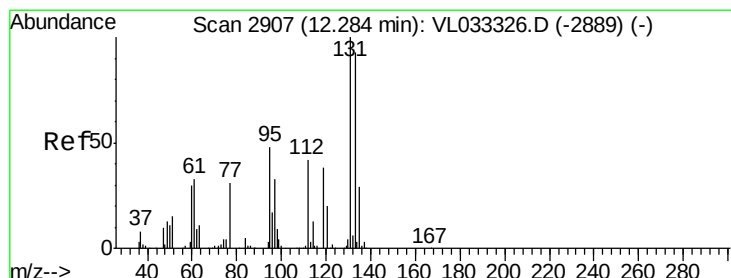
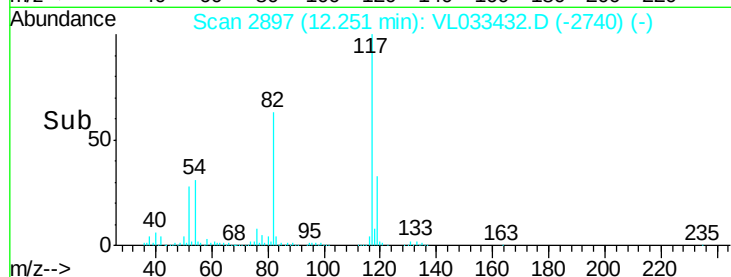
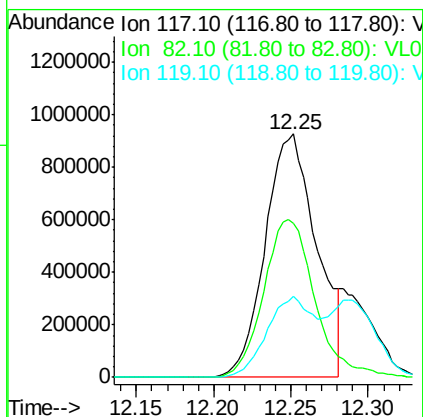
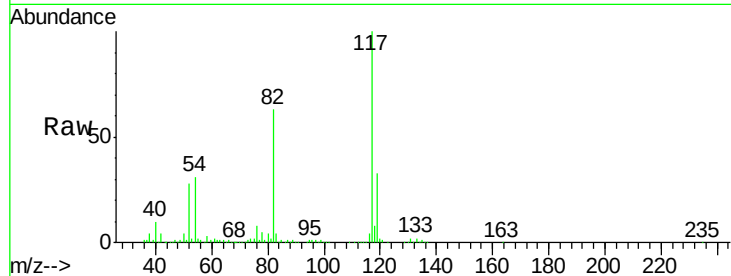
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. 0.01 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:117 Resp: 2150037
Ion Ratio Lower Upper
117 100
82 64.8 53.4 80.2
119 33.6 27.3 40.9

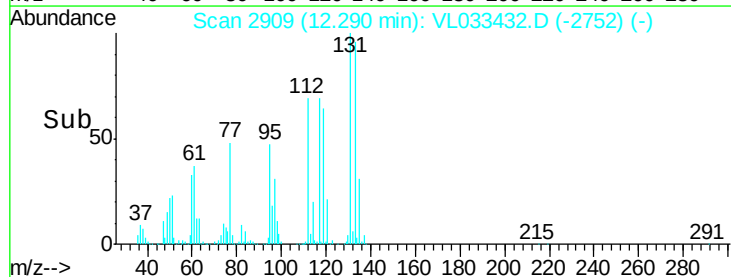
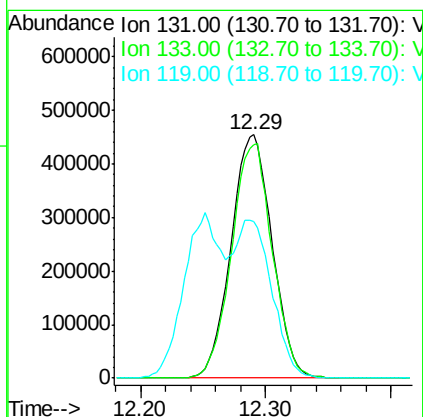
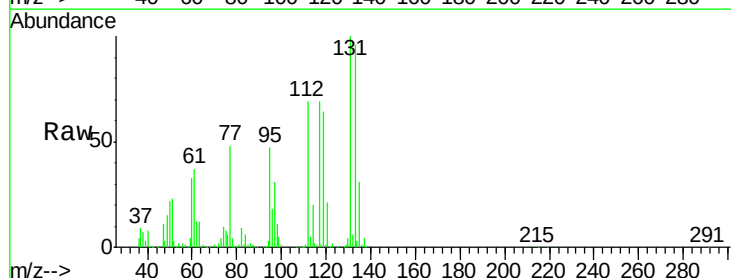
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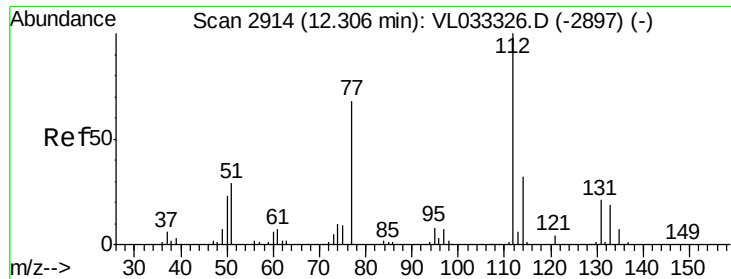
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#56
1,1,1,2-Tetrachloroethane
Concen: 10.764 ppbv
RT: 12.29 min Scan# 2909
Delta R.T. 0.01 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Tgt Ion:131 Resp: 1035298
Ion Ratio Lower Upper
131 100
133 95.6 76.7 115.1
119 58.0 40.3 60.5





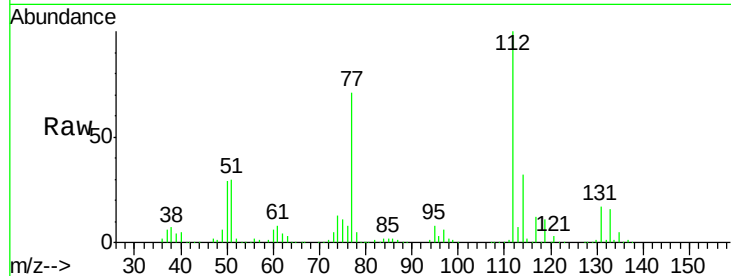
#57
Chlorobenzene
Concen: 10.062 ppbv
RT: 12.31 min Scan# 2916
Delta R.T. 0.01 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

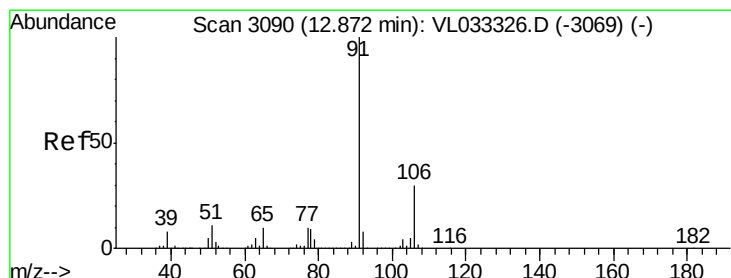
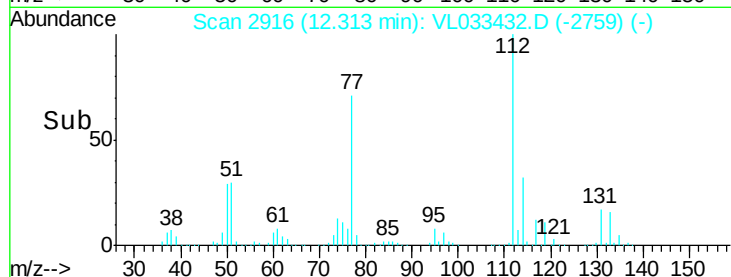
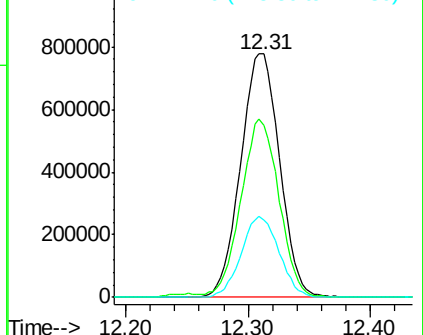
Tot Ion:112 Resp: 1713467
Ion Ratio Lower Upper
112 100
77 70.4 55.8 83.6
114 31.9 28.6 35.0

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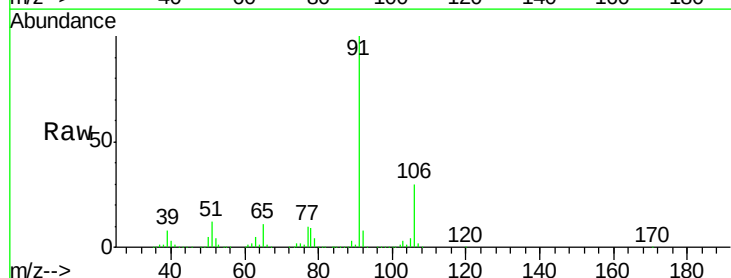


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): VL0
Ion 114.10 (113.80 to 114.80): V

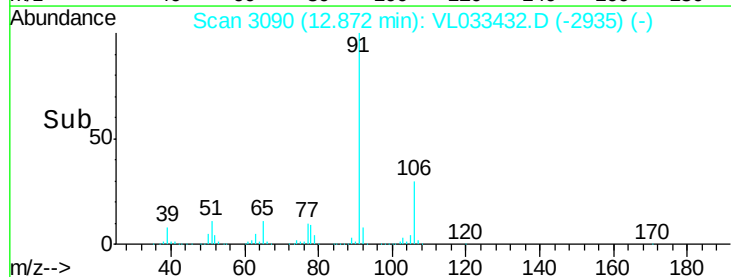
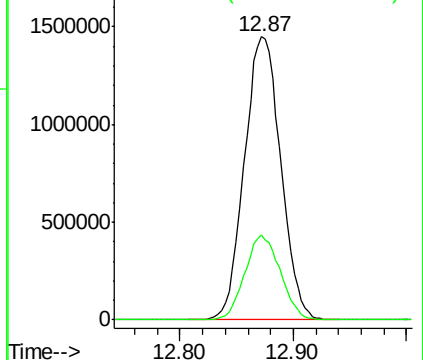


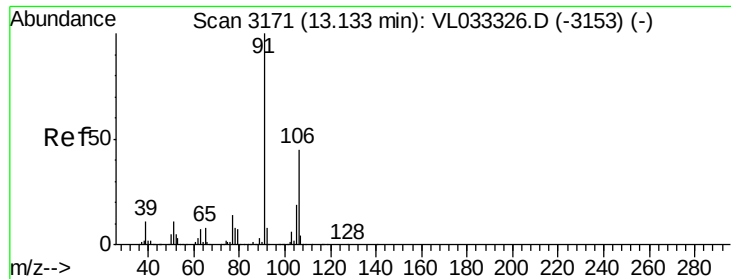
#58
Ethyl Benzene
Concen: 10.622 ppbv
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Tgt Ion: 91 Resp: 3230804
Ion Ratio Lower Upper
91 100
106 30.1 24.2 36.2



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





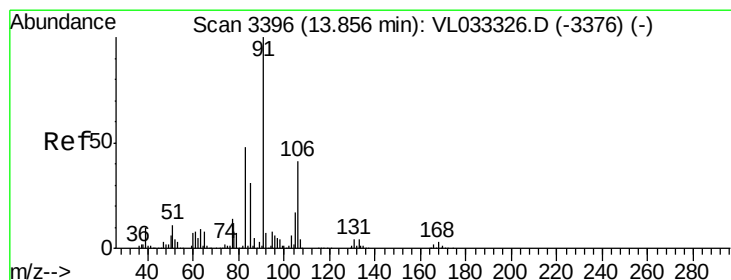
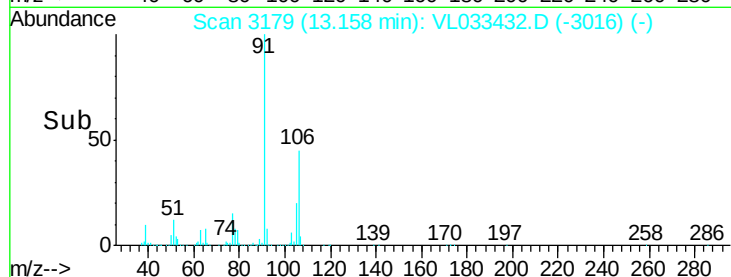
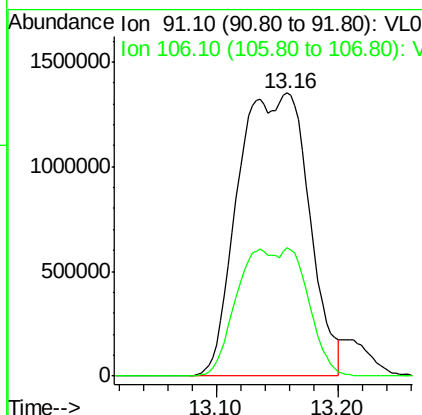
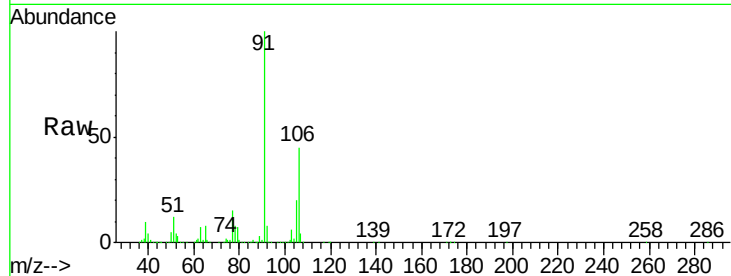
#59
m/p-Xylene
Concen: 20.858 ppbv m
RT: 13.16 min Scan# 3179
Delta R.T. 0.03 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5452040
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

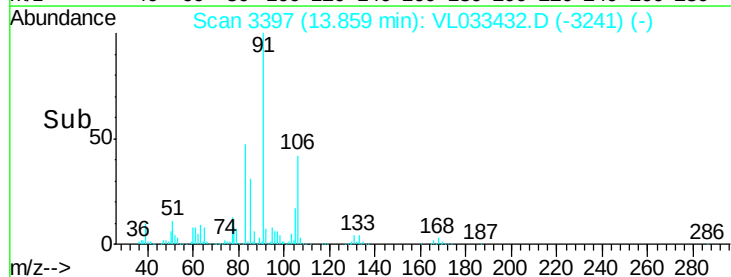
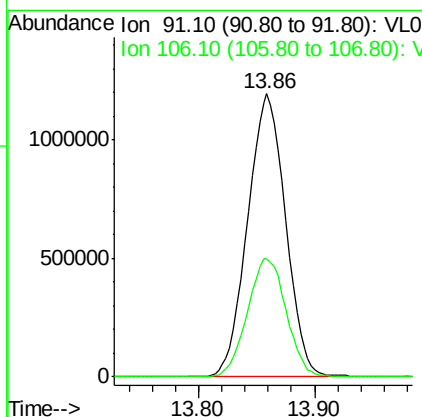
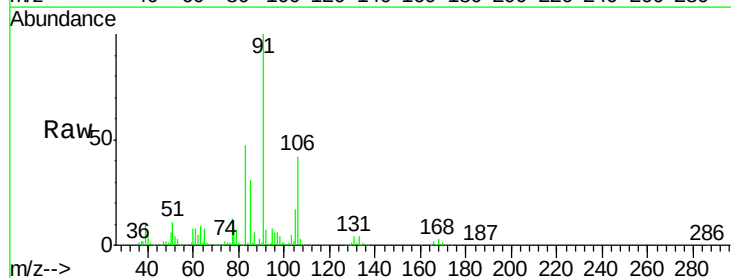
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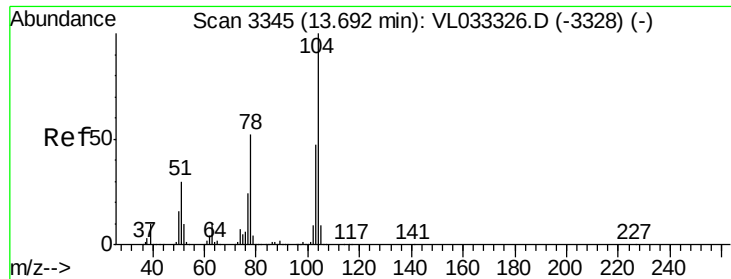
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#60
o-Xylene
Concen: 10.651 ppbv
RT: 13.86 min Scan# 3397
Delta R.T. 0.00 min
Lab File: VL033432.D
Acq: 22 Mar 2019 14:21

Tgt Ion: 91 Resp: 2716044
Ion Ratio Lower Upper
91 100
106 42.7 21.3 63.9





#61

Stvrene

Concen: 11.076 ppbv

RT: 13.70 min Scan# 3346

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1977485

Ion Ratio Lower Upper

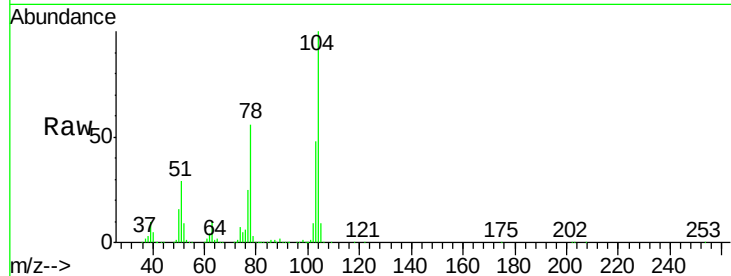
104 100

78 54.2 42.7 64.1

103 47.3 38.0 57.0

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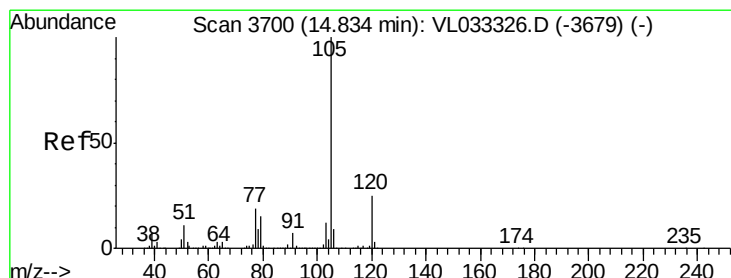
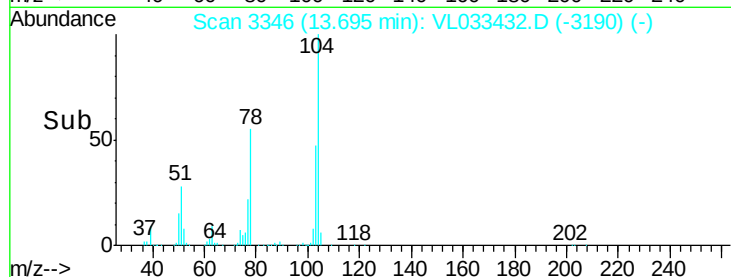
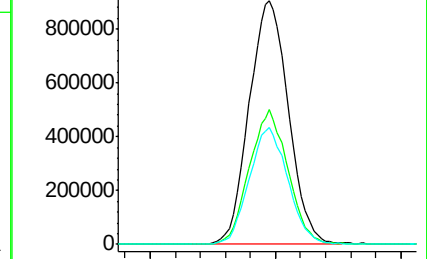
MMDadoda
3/25/2019 8:28:15 AM



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 10.623 ppbv

RT: 14.84 min Scan# 3701

Delta R.T. 0.00 min

Lab File: VL033432.D

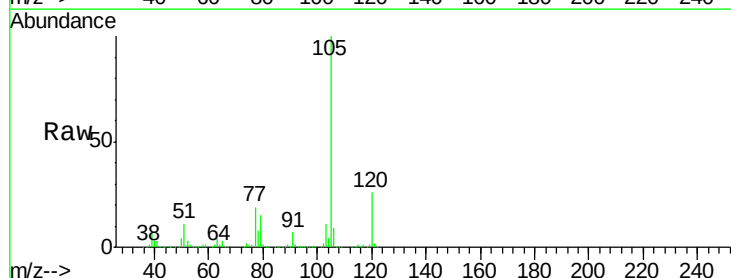
Acq: 22 Mar 2019 14:21

Tgt Ion:105 Resp: 3765802

Ion Ratio Lower Upper

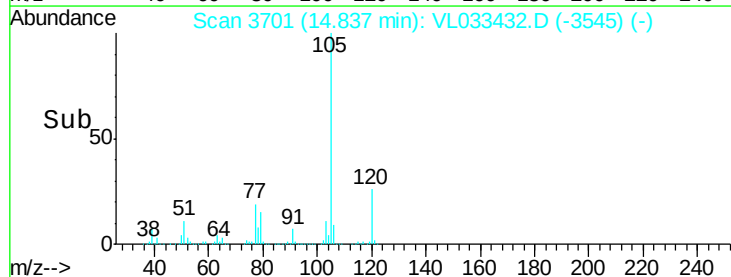
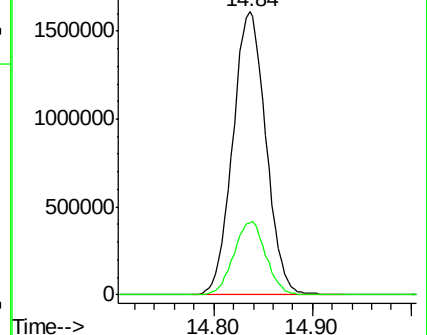
105 100

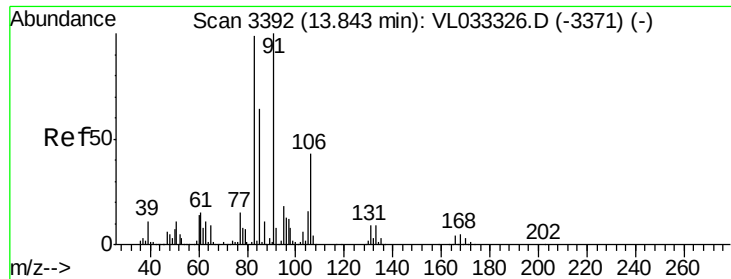
120 25.2 19.9 29.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#63

1,1,2,2-Tetrachloroethane

Concen: 10.071 ppbv

RT: 13.85 min Scan# 3393

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 83 Resp: 1856520

Ion Ratio Lower Upper

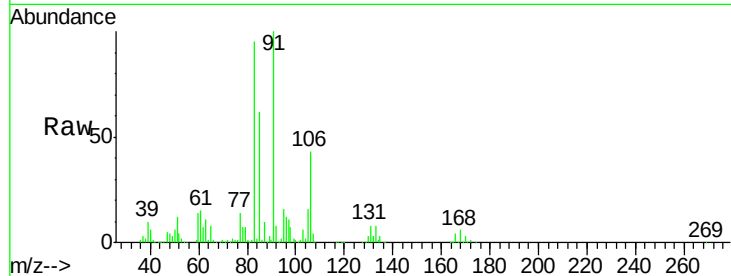
83 100

131 9.4 4.7 14.0

85 65.7 32.5 97.4

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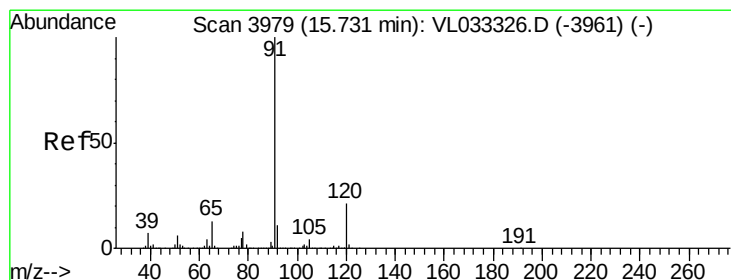
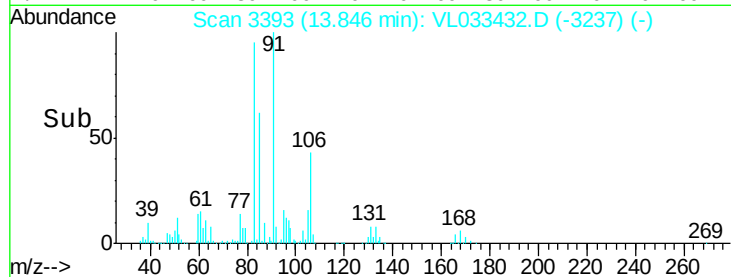
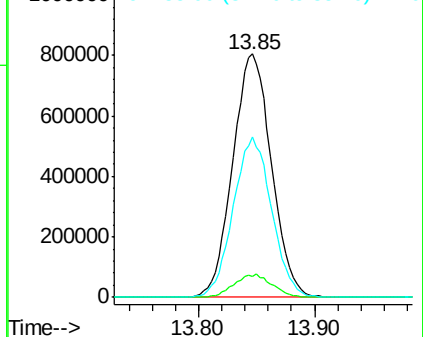
MMDadoda
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 10.661 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. -0.00 min

Lab File: VL033432.D

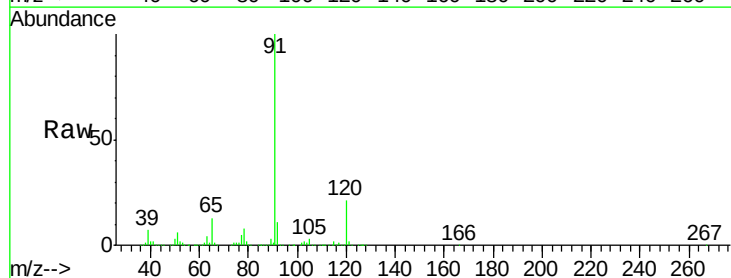
Acq: 22 Mar 2019 14:21

Tgt Ion:120 Resp: 956343

Ion Ratio Lower Upper

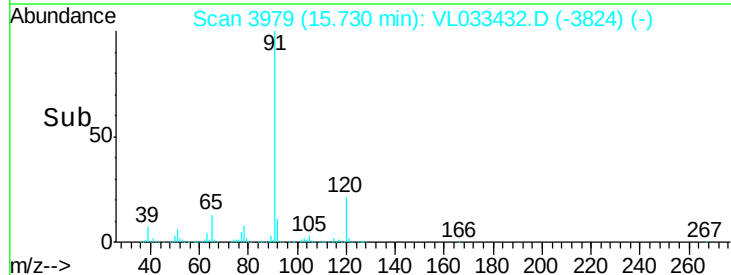
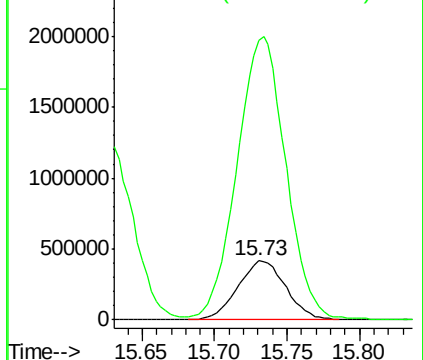
120 100

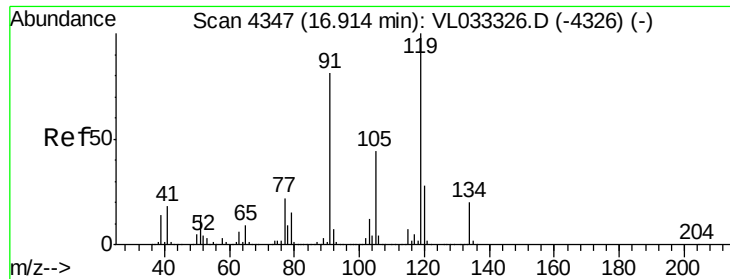
91 489.1 389.8 584.6



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0





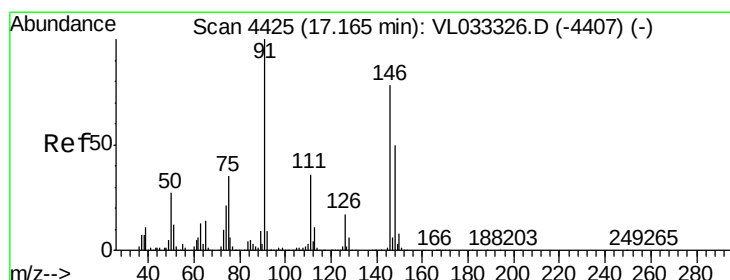
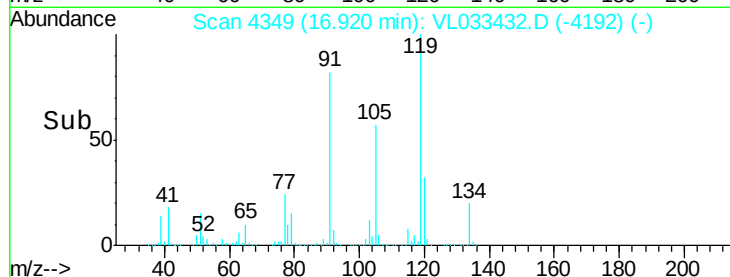
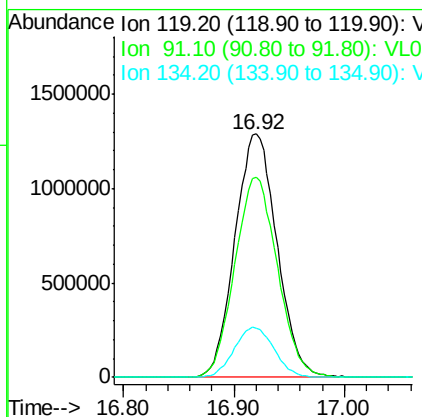
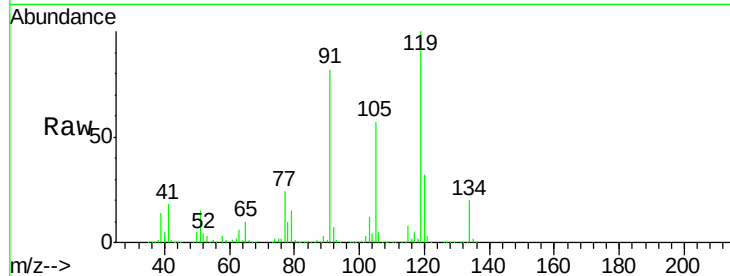
#65
 tert-Butylbenzene
 Concen: 10.600 ppbv
 RT: 16.92 min Scan# 4349
 Delta R.T. 0.01 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:119 Resp: 3383177
 Ion Ratio Lower Upper
 119 100
 91 83.9 67.2 100.8
 134 19.7 15.4 23.2

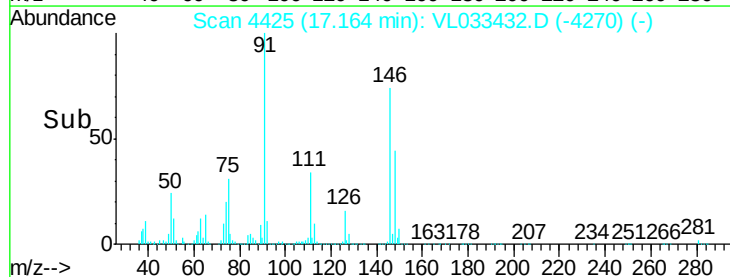
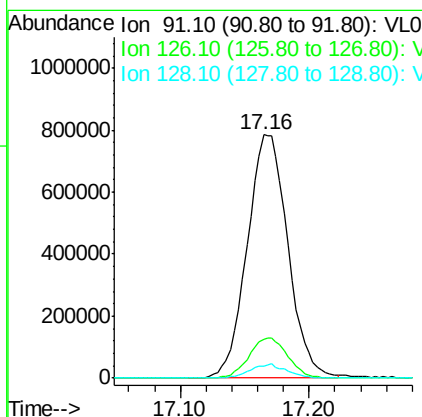
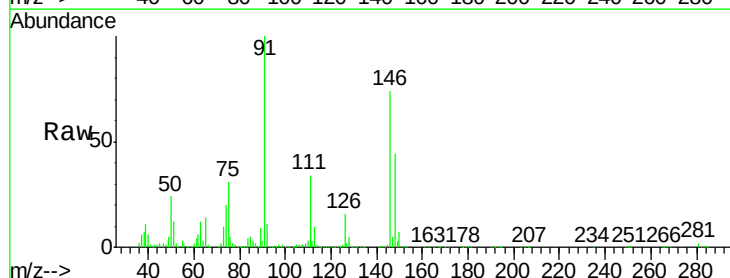
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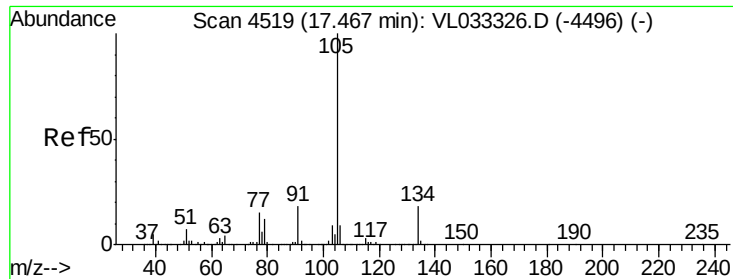
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#66
 Benzyl Chloride
 Concen: 13.085 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Tgt Ion: 91 Resp: 1725841
 Ion Ratio Lower Upper
 91 100
 126 15.9 13.2 19.8
 128 5.2 4.2 6.4





#67

sec-Butylbenzene

Concen: 10.594 ppbv

RT: 17.47 min Scan# 4520

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 4791257

Ion Ratio Lower Upper

105 100

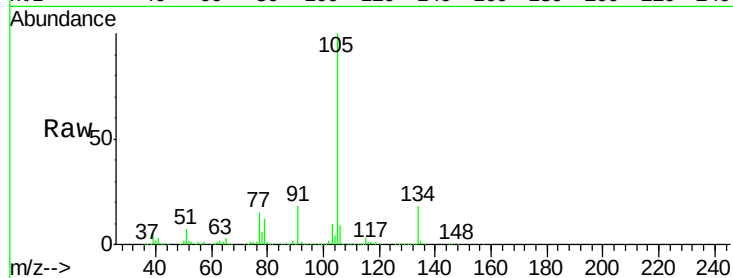
134 17.9 14.2 21.4

Manual Integrations

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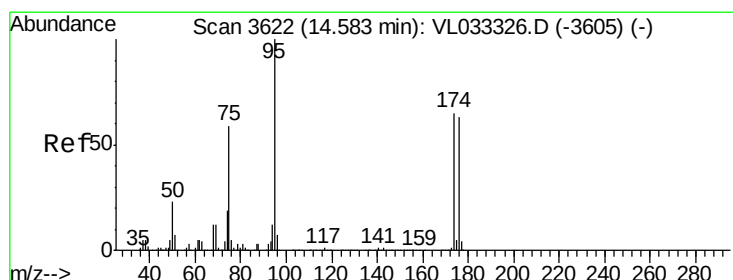
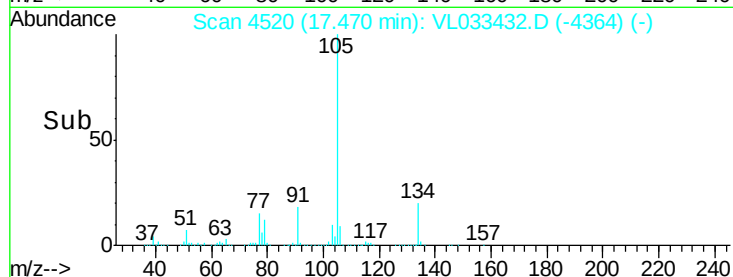
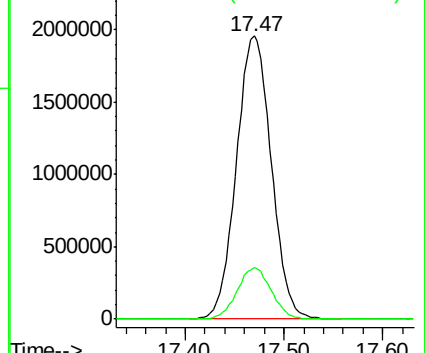
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.206 ppbv

RT: 14.59 min Scan# 3623

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

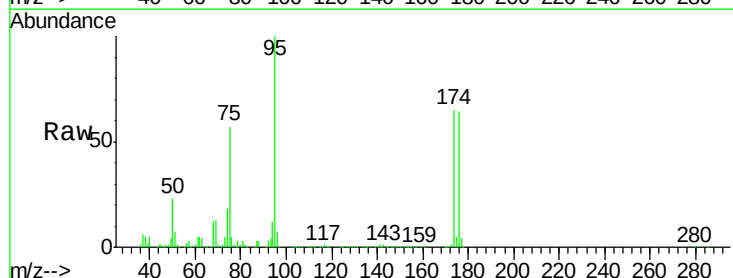
Tgt Ion: 95 Resp: 1625984

Ion Ratio Lower Upper

95 100

174 65.6 51.5 77.3

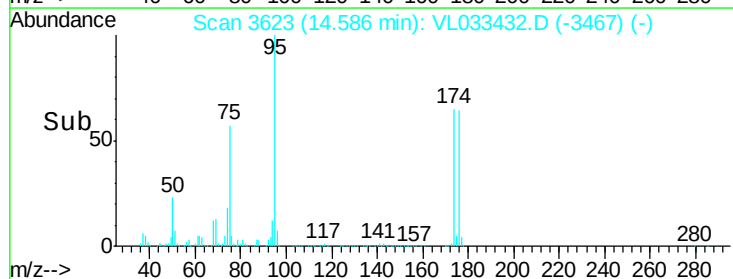
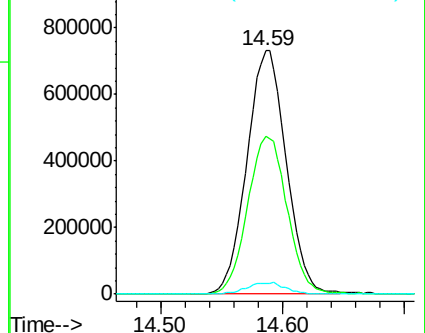
175 4.8 3.8 5.6

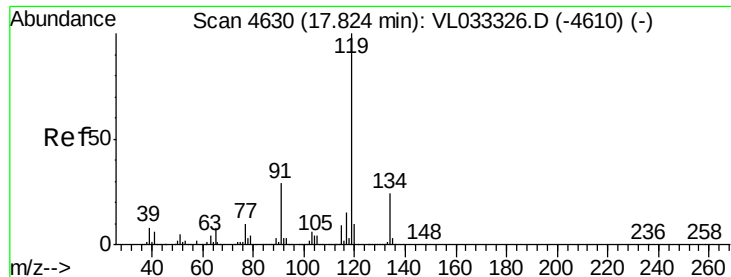


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





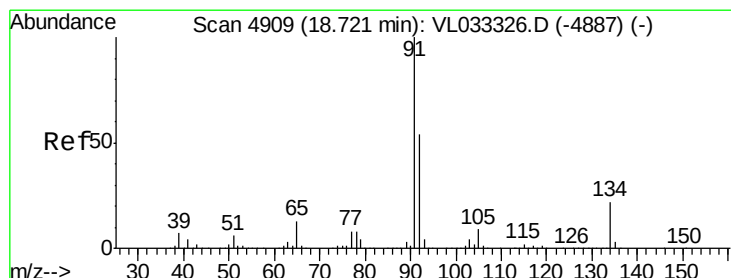
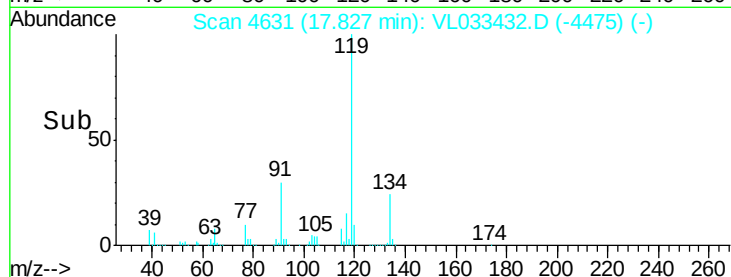
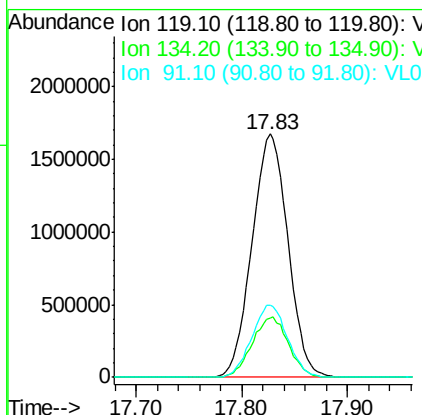
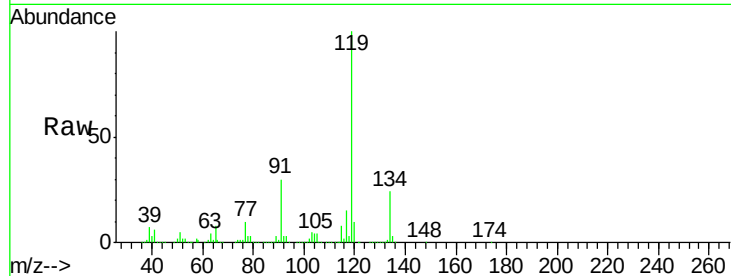
#69
 p-Isopropyltoluene
 Concen: 10.744 ppbv
 RT: 17.83 min Scan# 4631
 Delta R.T. 0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	19.8	29.6
91	29.7	23.4	35.2

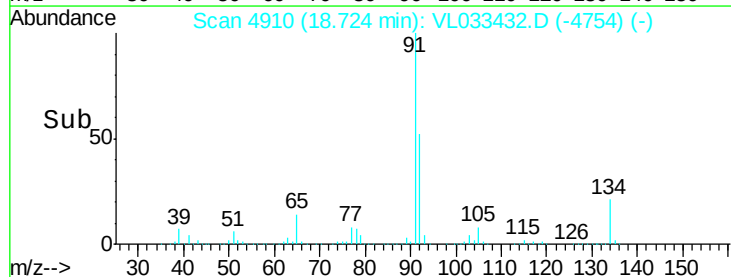
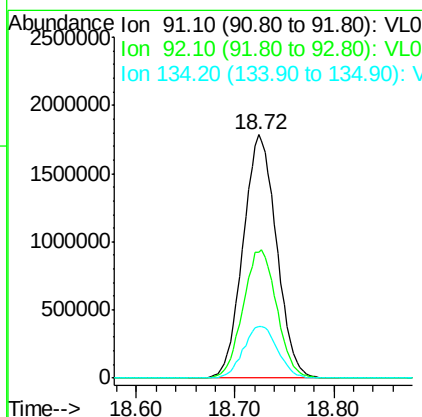
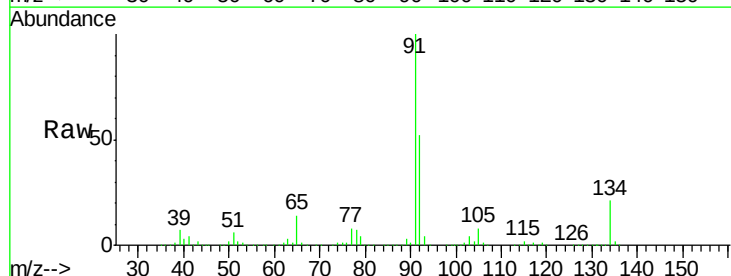
Manual Integrations
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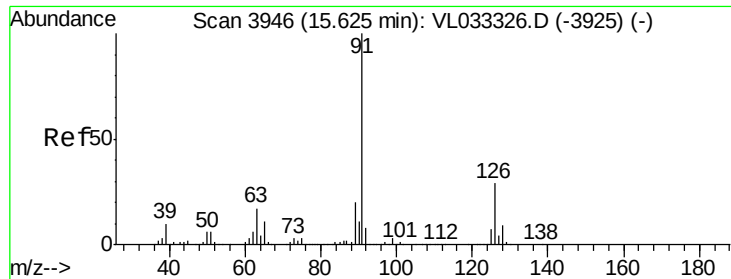
MMDadoda
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#70
 n-Butylbenzene
 Concen: 10.563 ppbv
 RT: 18.72 min Scan# 4910
 Delta R.T. 0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.4	42.8	64.2
134	21.9	17.4	26.0





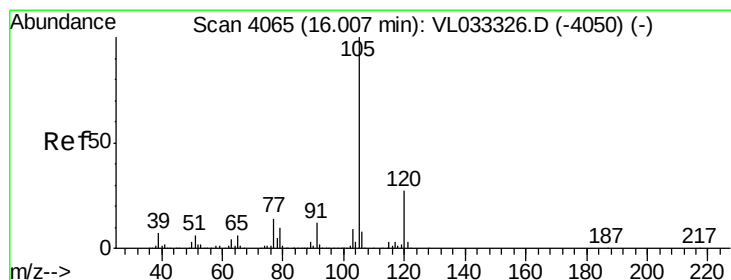
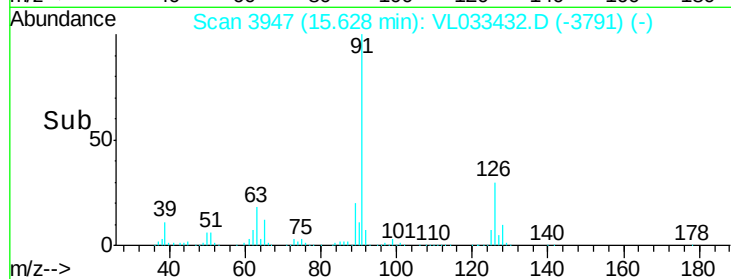
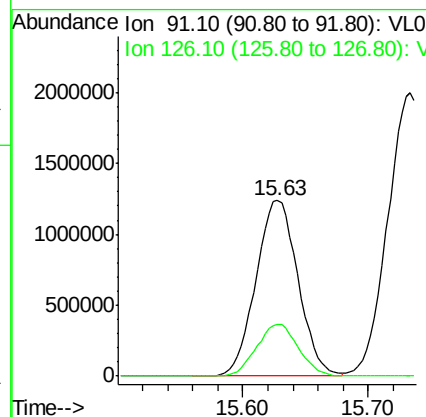
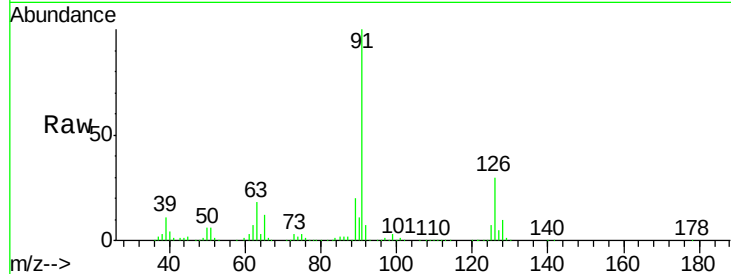
#71
 2-Chlorotoluene
 Concen: 10.493 ppbv
 RT: 15.63 min Scan# 3947
 Delta R.T. 0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 91 Resp: 2895742
 Ion Ratio Lower Upper
 91 100
 126 29.5 11.6 46.6

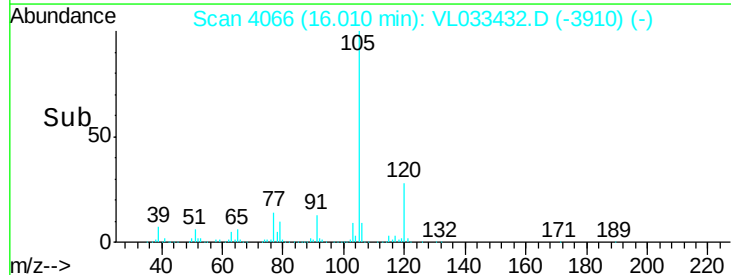
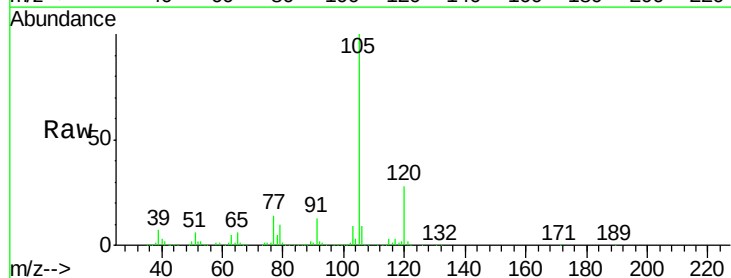
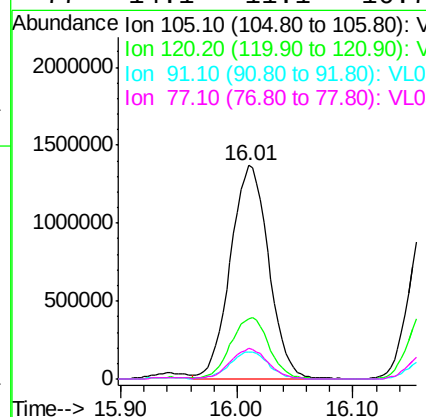
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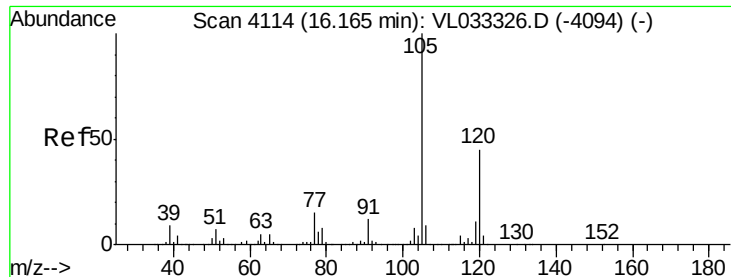
MMDadoda
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#72
 4-Ethyltoluene
 Concen: 10.825 ppbv
 RT: 16.01 min Scan# 4066
 Delta R.T. 0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Tgt Ion: 105 Resp: 3134741
 Ion Ratio Lower Upper
 105 100
 120 29.0 22.9 34.3
 91 12.7 10.2 15.2
 77 14.1 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 10.639 ppbv

RT: 16.17 min Scan# 4115

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3001235

Ion Ratio Lower Upper

105 100

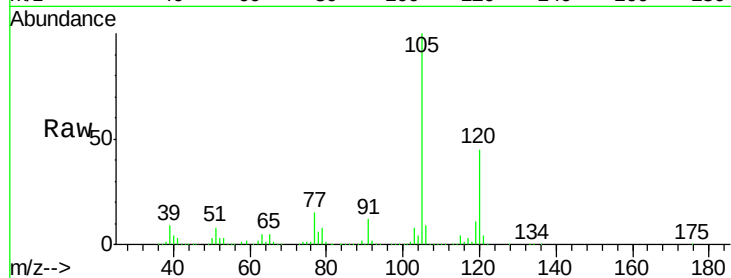
120 45.2 36.2 54.4

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

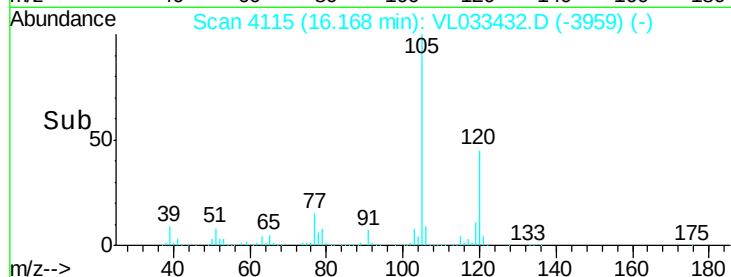
1500000

1000000

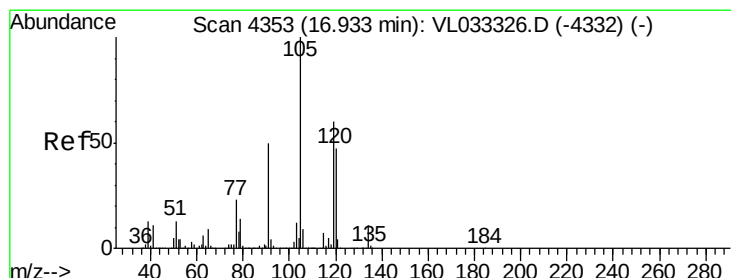
500000

0

16.10 16.20



Time-->



#74

1,2,4-Trimethylbenzene

Concen: 10.399 ppbv

RT: 16.94 min Scan# 4354

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Tgt Ion:105 Resp: 3106937

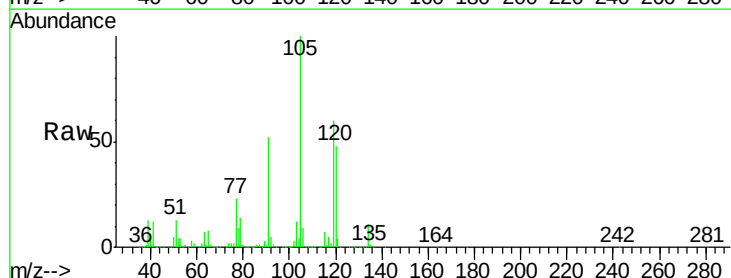
Ion Ratio Lower Upper

105 100

120 47.5 37.4 56.2

91 51.8 41.0 61.4

77 22.8 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

2000000

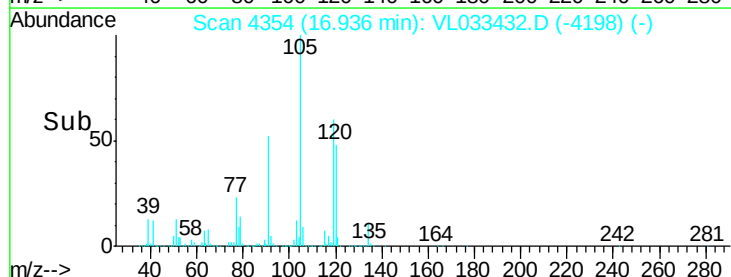
1500000

1000000

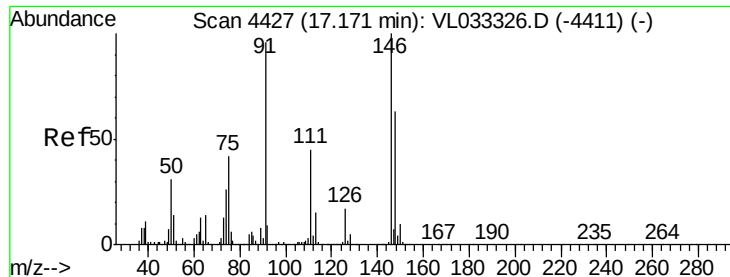
500000

0

16.80 16.90 17.00



Time-->



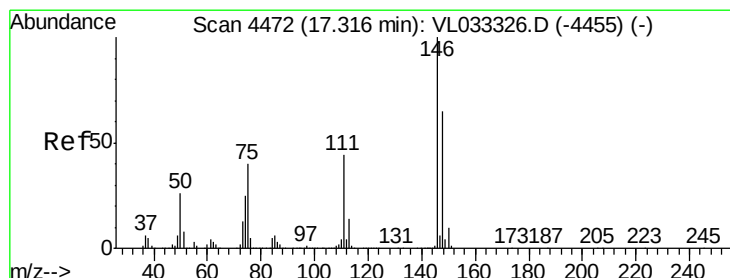
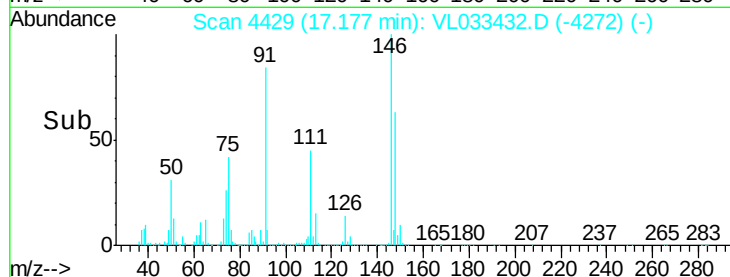
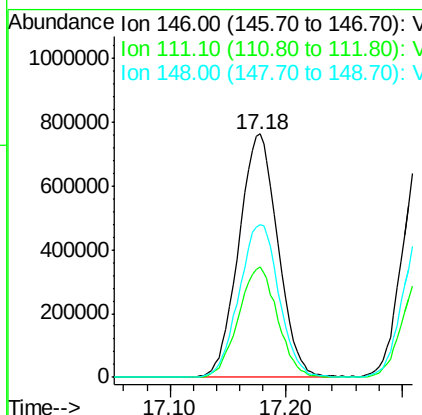
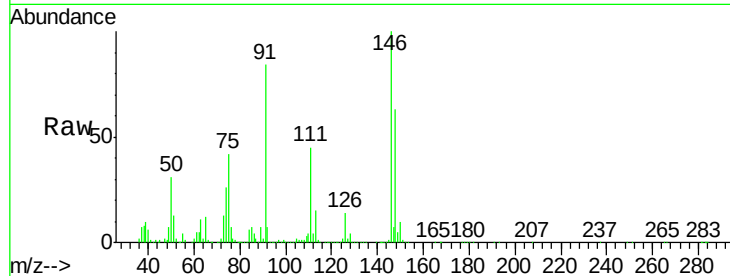
#75
 1,3-Dichlorobenzene
 Concen: 10.168 ppbv
 RT: 17.18 min Scan# 4429
 Delta R.T. 0.01 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1790548
 Ion Ratio Lower Upper
 146 100
 111 45.3 22.8 68.3
 148 64.1 31.9 95.7

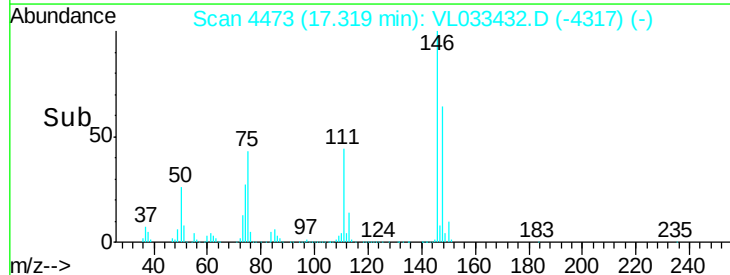
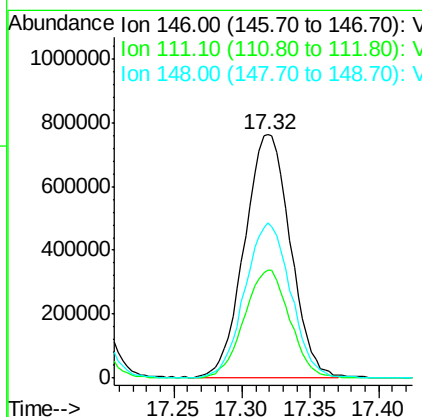
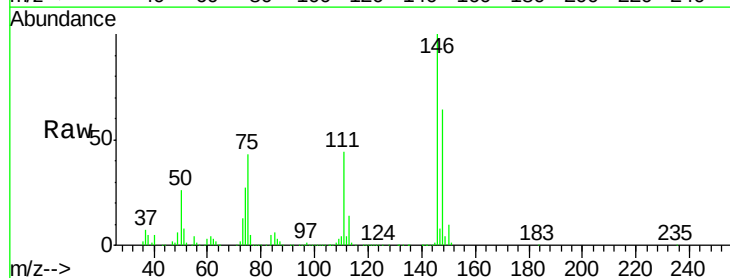
Manual Integrations
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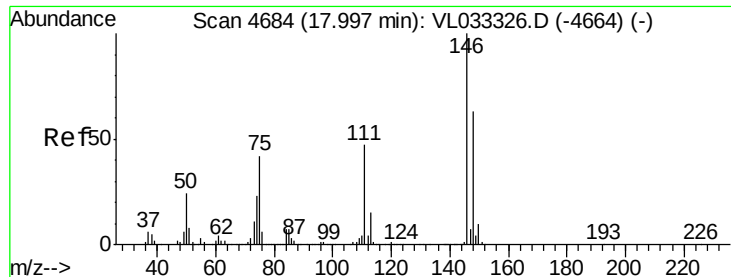
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#76
 1,4-Dichlorobenzene
 Concen: 10.398 ppbv
 RT: 17.32 min Scan# 4473
 Delta R.T. 0.00 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Tgt Ion:146 Resp: 1772852
 Ion Ratio Lower Upper
 146 100
 111 44.5 21.9 65.7
 148 64.4 32.1 96.5





#77

1,2-Dichlorobenzene

Concen: 10.445 ppbv

RT: 18.00 min Scan# 4684

Delta R.T. -0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:146 Resp: 1742026

Ion Ratio Lower Upper

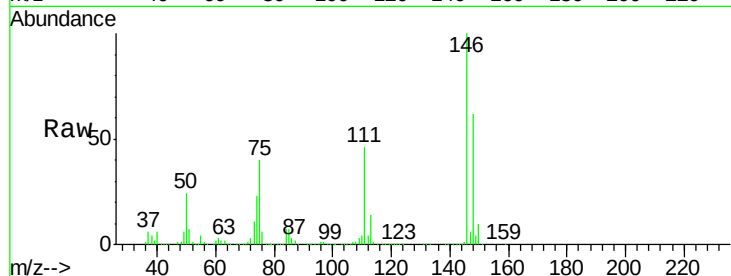
146 100

111 47.3 23.5 70.6

148 63.7 31.9 95.9

Manual Integrations
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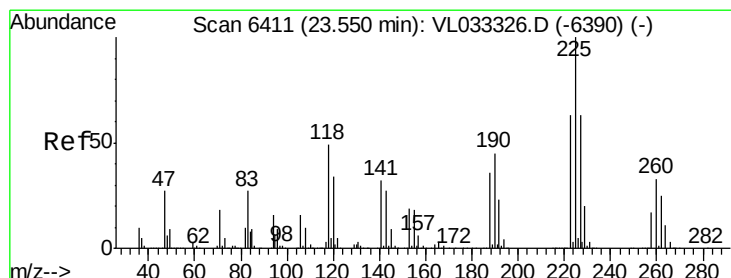
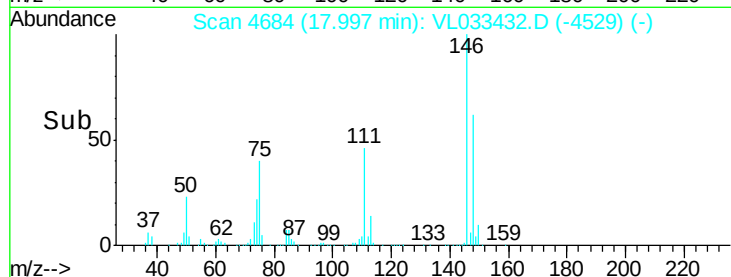
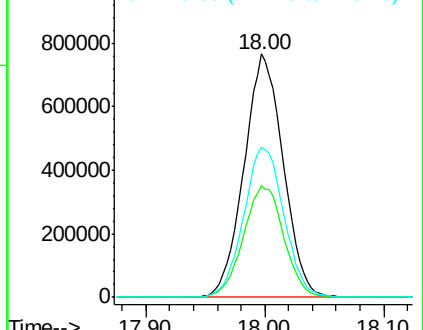
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Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78

Hexachloro-1,3-Butadiene

Concen: 12.208 ppbv

RT: 23.55 min Scan# 6412

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

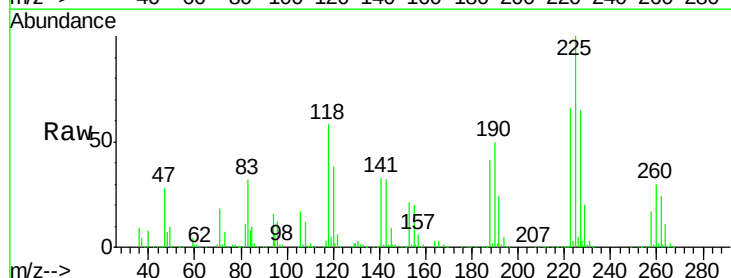
Tgt Ion:225 Resp: 1220735

Ion Ratio Lower Upper

225 100

223 63.9 50.4 75.6

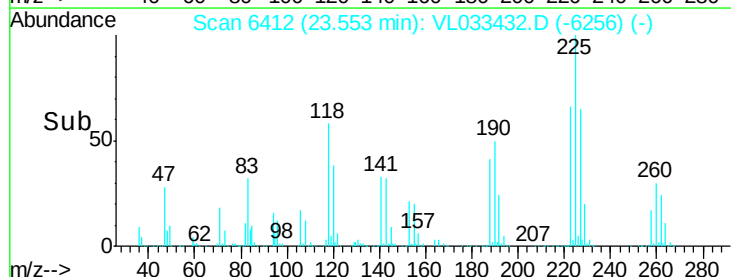
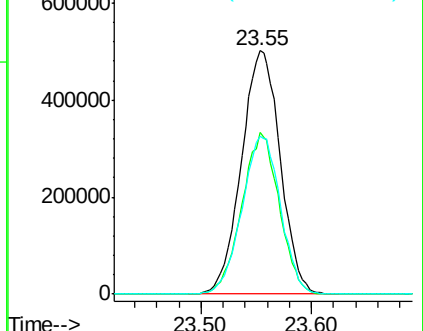
227 64.5 50.5 75.7

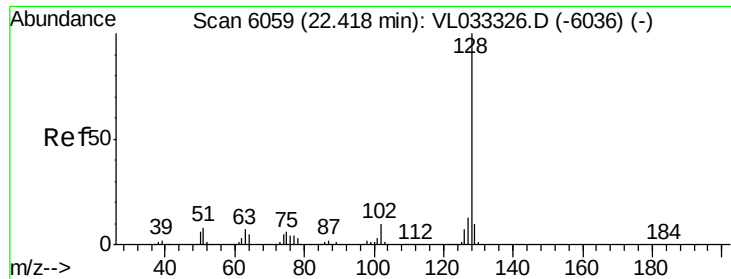


Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V





#79

Naphthalene

Concen: 9.721 ppbv

RT: 22.42 min Scan# 6061

Delta R.T. 0.01 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2798883

Ion Ratio Lower Upper

128 100

127 12.5 10.1 15.1

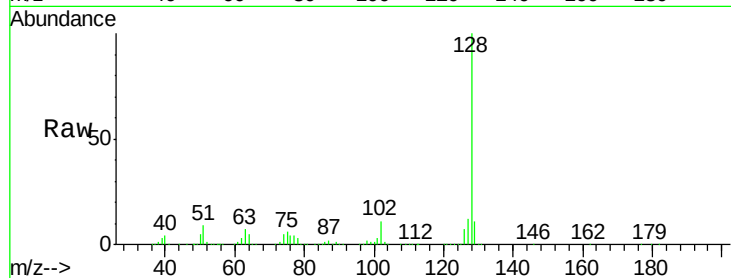
129 10.9 8.2 12.2

Manual Integrations

APPROVED

MMDadoda

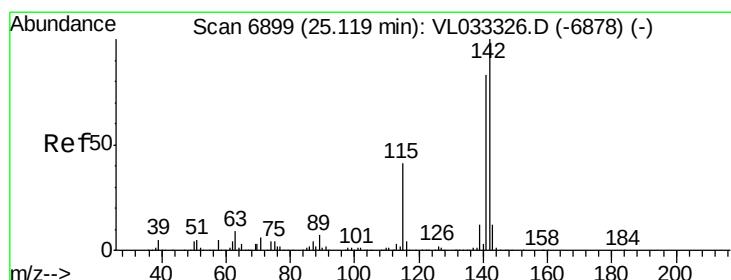
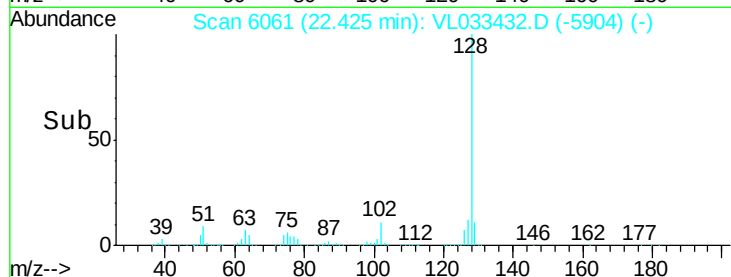
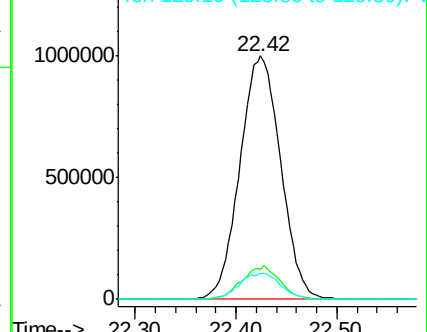
3/25/2019 8:28:15 AM



Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80

Naphthalene, 2-methyl-

Concen: 8.596 ppbv

RT: 25.12 min Scan# 6900

Delta R.T. 0.00 min

Lab File: VL033432.D

Acq: 22 Mar 2019 14:21

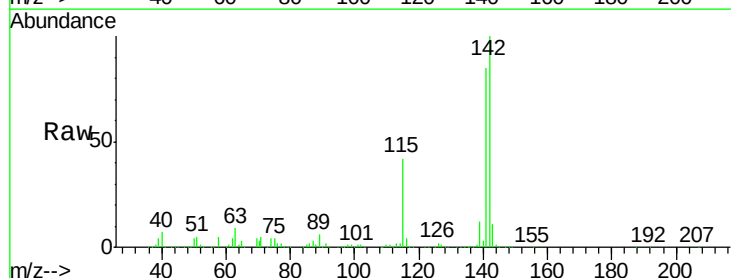
Tgt Ion:142 Resp: 1173533

Ion Ratio Lower Upper

142 100

141 84.6 67.1 100.7

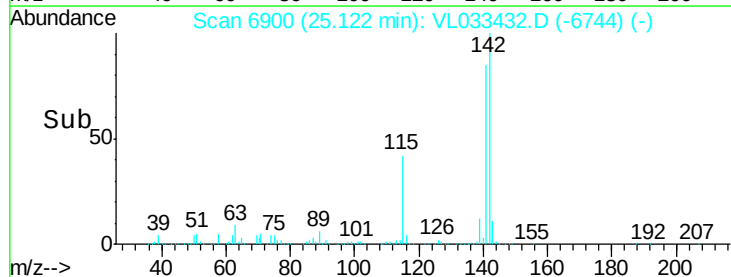
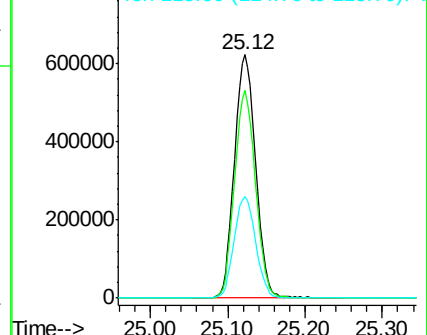
115 42.4 33.8 50.6

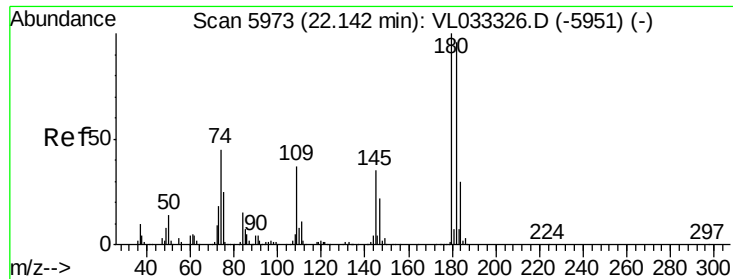


Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 9.982 ppbv
 RT: 22.15 min Scan# 5975
 Delta R.T. 0.01 min
 Lab File: VL033432.D
 Acq: 22 Mar 2019 14:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.1	114.1
184	30.5	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:28:15 AM

