

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032019\
 Data File : VL033419.D
 Acq On : 21 Mar 2019 12:07
 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 8:26:44 AM

Quant Time: Mar 22 07:27:42 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	5.76	49	805478	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1884611	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2658272	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1838696	9.33	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.30%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	1594024	11.253	ppbv 98
3) Chlorodifluoromethane	3.01	51	959629	10.380	ppbv 98
4) Chloromethane	3.17	50	501964	10.027	ppbv 96
5) Vinyl Chloride	3.29	62	497042	9.624	ppbv 96
6) Bromomethane	3.52	94	319803	10.417	ppbv 100
7) Chloroethane	3.60	64	184851	10.243	ppbv 96
8) Dichlorotetrafluoroethane	3.22	85	1274953	10.573	ppbv 99
9) Propene	3.04	41	399901	9.690	ppbv 98
10) Heptane	8.25	43	1288960	12.592	ppbv 100
11) Trichlorofluoromethane	4.00	101	1484287	10.523	ppbv 99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	980340	10.476	ppbv 98
13) Ethanol	3.65	45	91724	4.662	ppbv 99
14) Bromoethene	3.79	108	398481	10.216	ppbv 100
15) Acetone	3.90	43	904964	7.228	ppbv 100
16) 1,3-Butadiene	3.36	39	462255	11.366	ppbv 89
17) tert-Butyl alcohol	4.36	59	172083	9.766	ppbv 100
18) 1,1-Dichloroethene	4.35	96	437843	10.232	ppbv 99
19) Isopropyl Alcohol	4.02	45	616072	10.344	ppbv 99
20) Methylene Chloride	4.41	84	361228	8.846	ppbv 97
21) Allyl Chloride	4.48	41	662319	10.904	ppbv 98
22) trans-1,2-Dichloroethene	4.96	96	524783	12.655	ppbv 99
23) Vinyl Acetate	5.16	43	1735727	11.981	ppbv 99
24) 1,1-Dichloroethane	5.09	63	1248105	11.929	ppbv 99
25) Ethyl Acetate	5.77	43	2159438	11.864	ppbv 100
26) Hexane	5.78	57	948224	11.653	ppbv 98
27) Carbon Disulfide	4.62	76	1049414	11.203	ppbv 99
28) Methyl tert-Butyl Ether	5.11	73	1441309	11.925	ppbv 99
29) Chloroform	5.85	83	1618127	12.145	ppbv 99
30) Cyclohexane	7.25	84	812817	12.459	ppbv 99
31) cis-1,2-Dichloroethene	5.64	61	996495	12.248	ppbv 96
32) 1,1,1-Trichloroethane	6.62	97	1640849	12.543	ppbv 99
34) 2-Butanone	5.33	43	1389730	11.228	ppbv 99
35) Carbon Tetrachloride	7.14	117	1710948	12.877	ppbv 99
36) Benzene	7.01	78	1999342	11.854	ppbv 97
37) 1,2-Dichloroethane	6.42	62	1267788	11.888	ppbv 99
38) Trichloroethene	7.96	130	784397	12.290	ppbv 95
39) 1,2-Dichloropropane	7.74	63	768874	12.173	ppbv 97
40) 1,4-Dioxane	7.96	88	285976m	12.857	ppbv
41) Tetrahydrofuran	6.15	42	798131	12.084	ppbv 99
42) Bromodichloromethane	7.92	83	1817725	12.713	ppbv 97
43) Methyl Methacrylate	8.14	69	828563	12.617	ppbv 100

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Quant Time: Mar 22 07:27:42 2019
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	3402822	12.181	ppbv	99
45) t-1,3-Dichloropropene	9.42	75	1093624	13.488	ppbv	98
46) cis-1,3-Dichloropropene	8.84	75	1249472	13.087	ppbv	100
47) 1,1,2-Trichloroethane	9.61	97	843431	12.086	ppbv	93
48) Dibromochloromethane	10.46	129	1545815	13.208	ppbv	99
49) Bromoform	13.20	173	1803131	16.241	ppbv	100
50) 4-Methyl-2-Pentanone	8.87	43	2115559	12.101	ppbv	99
51) 2-Hexanone	10.27	43	1661886	12.321	ppbv #	98
52) Tetrachloroethene	11.38	164	1002635	14.269	ppbv	98
53) Toluene	9.95	91	2374914	12.392	ppbv	99
54) 1,2-Dibromoethane	10.76	107	1350595	11.448	ppbv	97
56) 1,1,1,2-Tetrachloroethane	12.28	131	1438105	12.094	ppbv	95
57) Chlorobenzene	12.31	112	2357126	11.196	ppbv	99
58) Ethyl Benzene	12.87	91	4475983	11.903	ppbv	98
59) m/p-Xylene	13.15	91	7573171m	23.434	ppbv	
60) o-Xylene	13.85	91	3754905	11.910	ppbv	100
61) Styrene	13.69	104	2706065	12.259	ppbv	99
62) Isopropylbenzene	14.83	105	4980227	11.362	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	2584575	11.340	ppbv	100
64) n-propylbenzene	15.72	120	1276686	11.511	ppbv	99
65) tert-Butylbenzene	16.91	119	4518276	11.450	ppbv	100
66) Benzyl Chloride	17.16	91	2217783	13.600	ppbv	99
67) sec-Butylbenzene	17.46	105	6459690	11.552	ppbv	100
69) p-Isopropyltoluene	17.82	119	5307510	11.618	ppbv	99
70) n-Butylbenzene	18.72	91	5647311	11.593	ppbv	100
71) 2-Chlorotoluene	15.62	91	3859337	11.311	ppbv	100
72) 4-Ethyltoluene	16.00	105	4133598	11.545	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	3987128	11.431	ppbv	99
74) 1,2,4-Trimethylbenzene	16.93	105	4147995	11.229	ppbv	99
75) 1,3-Dichlorobenzene	17.17	146	2371427	10.892	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	2368812	11.237	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	2339434	11.345	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	1306033	10.564	ppbv	99
79) Naphthalene	22.42	128	2860913	8.037	ppbv	98
80) Naphthalene, 2-methyl-	25.12	142	1076868	6.380	ppbv	98
81) 1,2,4-Trichlorobenzene	22.14	180	1497457	8.249	ppbv	100

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

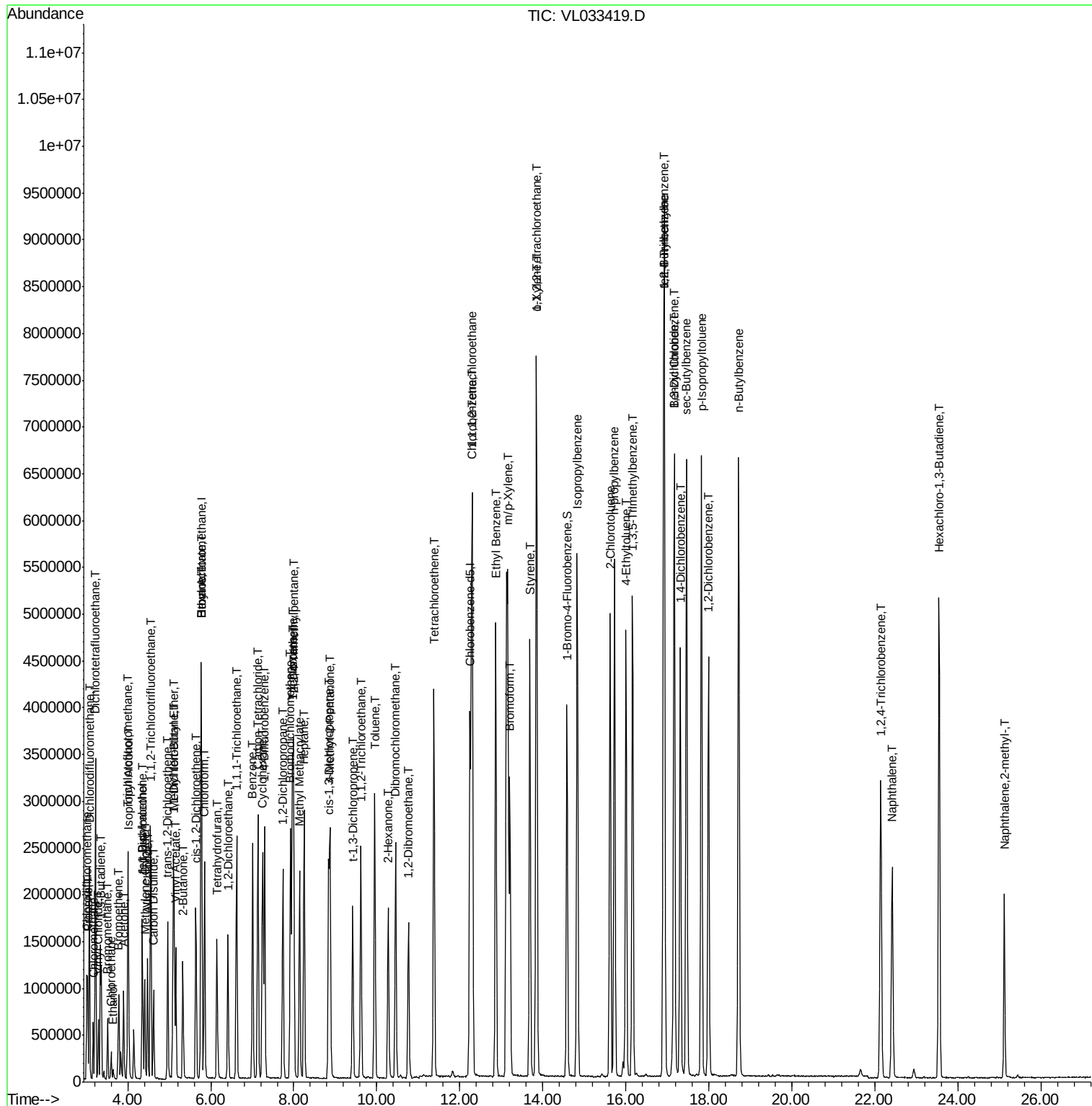
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032019\
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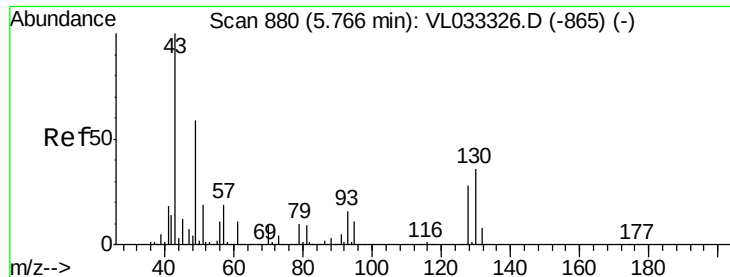
Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

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QLast Update : Fri Mar 15 14:52:14 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 49 Resp: 805478

Ion Ratio Lower Upper

49 100

128 46.9 23.5 70.6

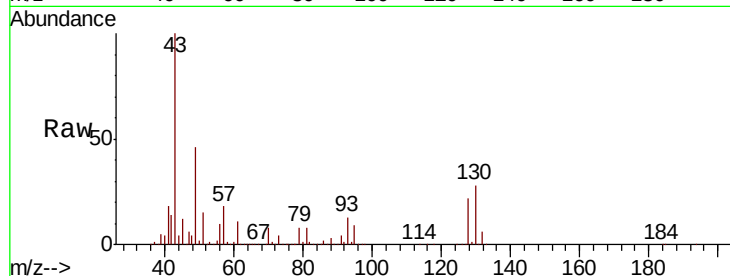
130 60.8 30.1 90.3

Manual Integrations

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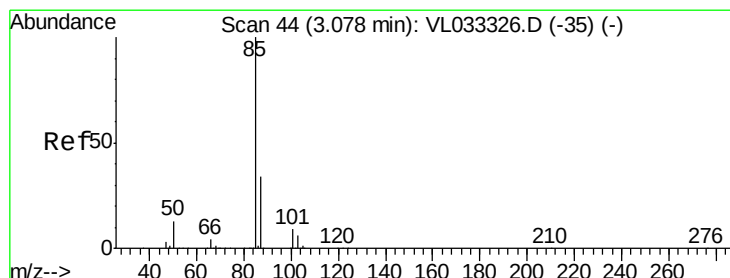
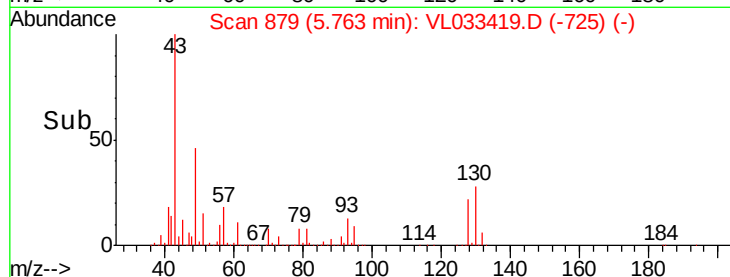
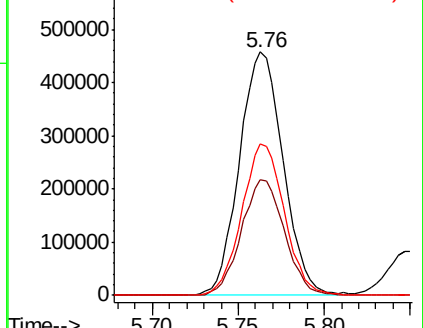
3/25/2019 8:26:44 AM



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: 11.253 ppbv

RT: 3.08 min Scan# 44

Delta R.T. -0.00 min

Lab File: VL033419.D

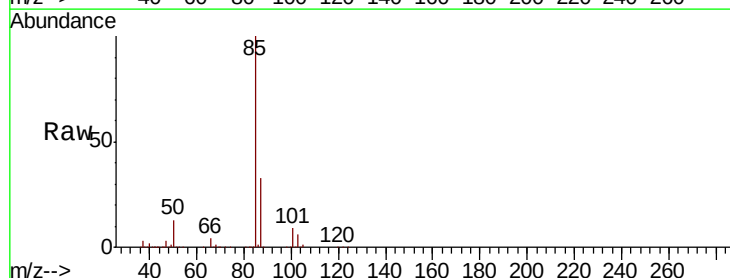
Acq: 21 Mar 2019 12:07

Tgt Ion: 85 Resp: 1594024

Ion Ratio Lower Upper

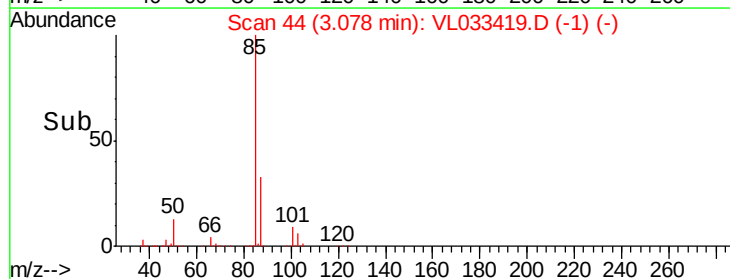
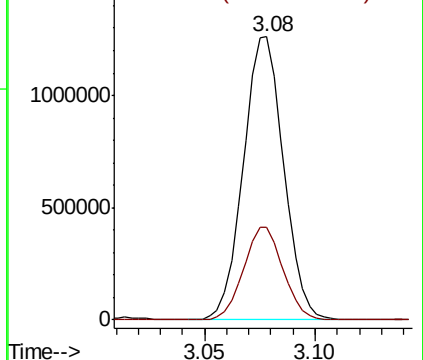
85 100

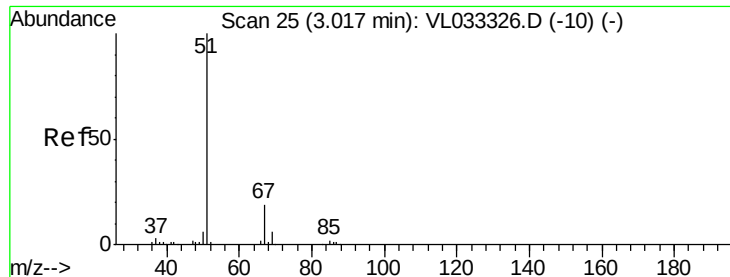
87 32.6 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





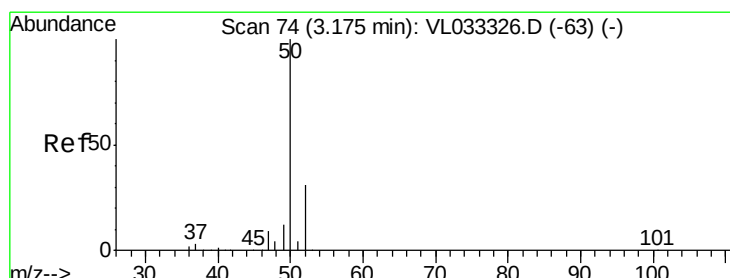
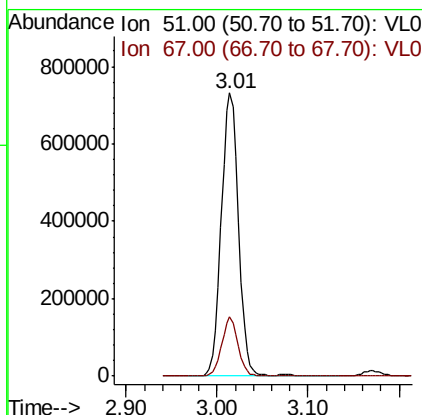
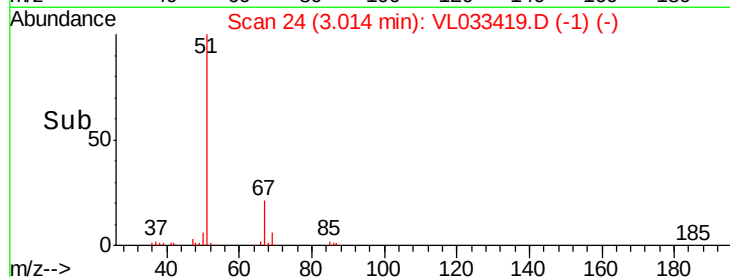
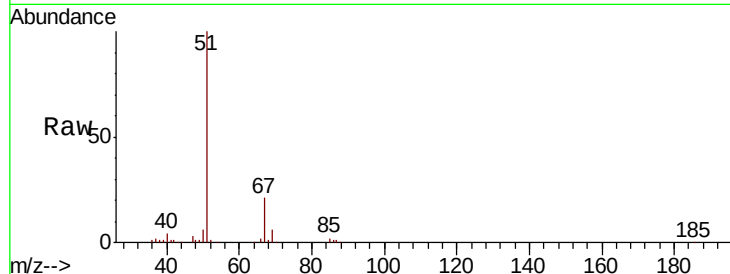
#3
Chlorodifluoromethane
Concen: 10.380 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
51	100		
67	19.5	14.9	22.3

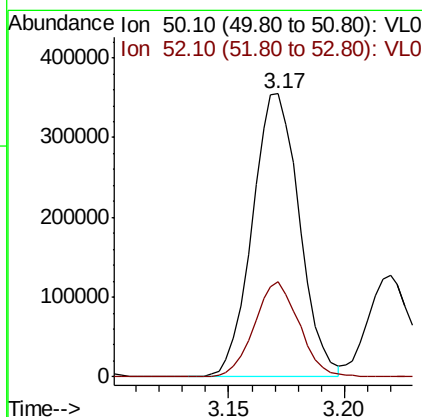
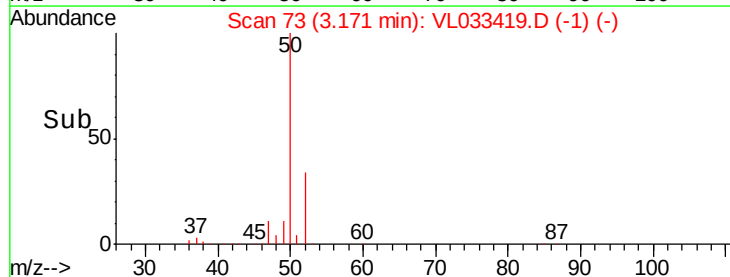
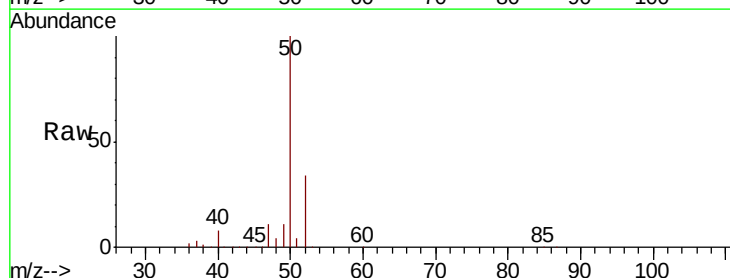
Manual Integrations
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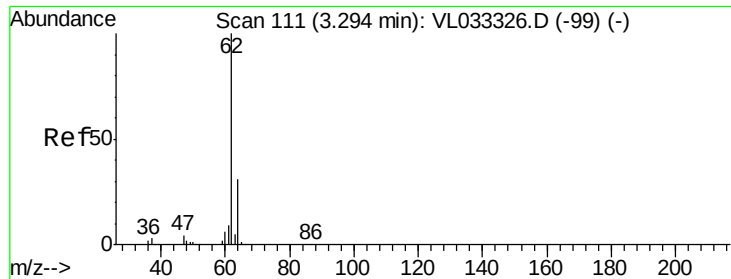
MMDadoda
3/25/2019 8:26:44 AM



#4
Chloromethane
Concen: 10.027 ppbv
RT: 3.17 min Scan# 73
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
50	100		
52	33.6	25.0	37.6





#5

Vinyl Chloride

Concen: 9.624 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 497042

Ion Ratio Lower Upper

62 100

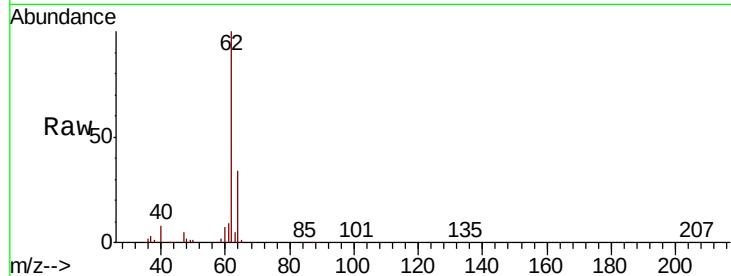
64 33.7 25.0 37.6

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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

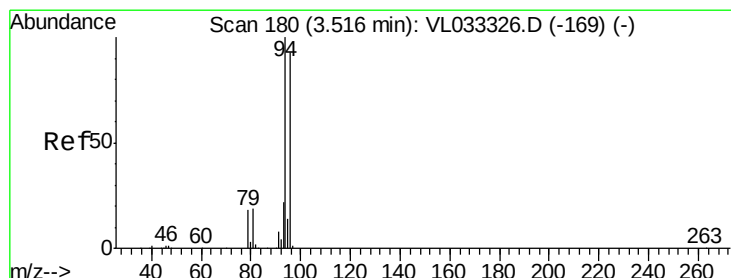
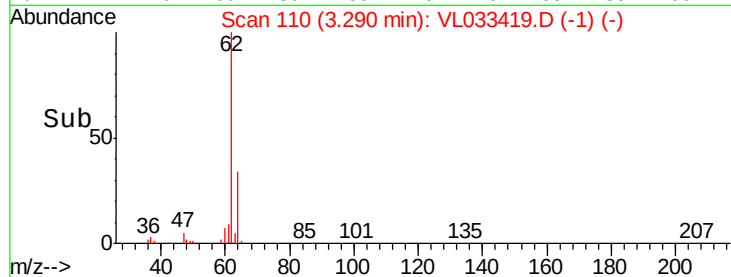
200000

100000

0

3.25 3.30 3.35

Time-->



#6

Bromomethane

Concen: 10.417 ppbv

RT: 3.52 min Scan# 180

Delta R.T. -0.00 min

Lab File: VL033419.D

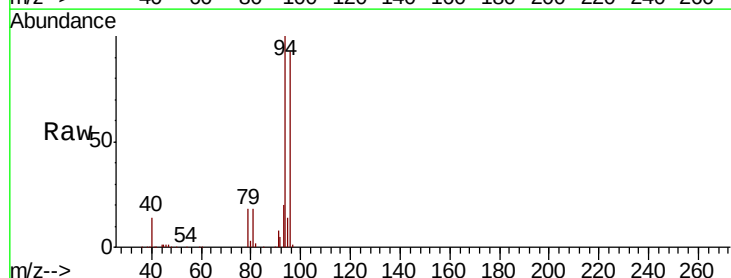
Acq: 21 Mar 2019 12:07

Tgt Ion: 94 Resp: 319803

Ion Ratio Lower Upper

94 100

96 92.8 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

150000

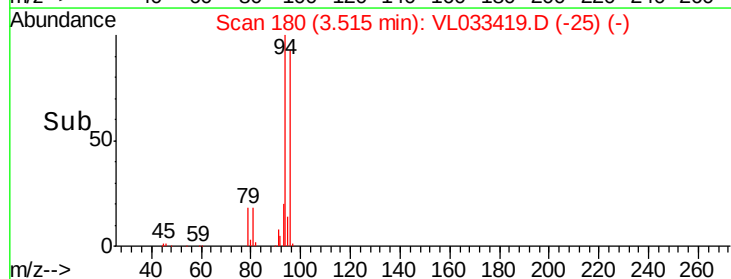
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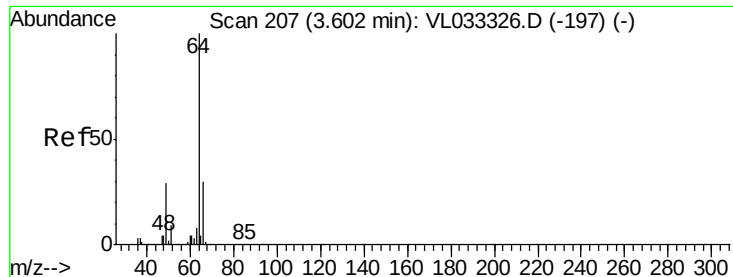
50000

0

3.45 3.50 3.55

Time-->





#7

Chloroethane

Concen: 10.243 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 184851

Ion Ratio Lower Upper

64 100

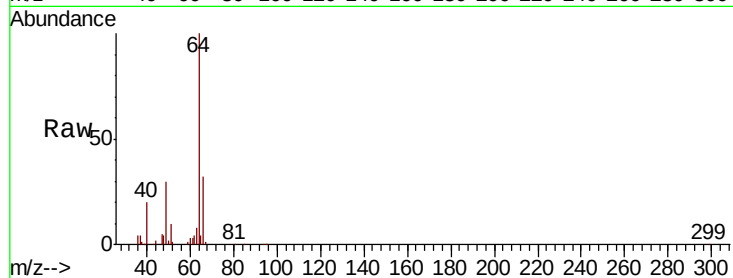
66 32.0 24.0 36.0

Manual Integrations

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3/25/2019 8:26:44 AM



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

150000

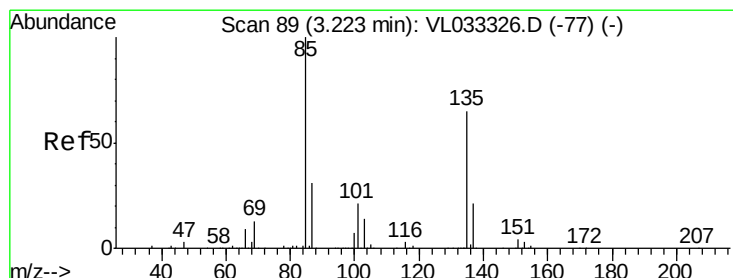
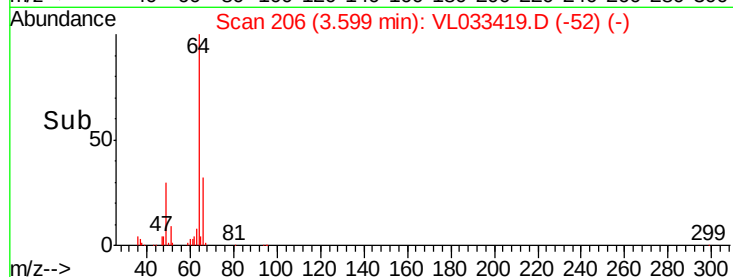
100000

50000

0

3.55 3.60 3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.573 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033419.D

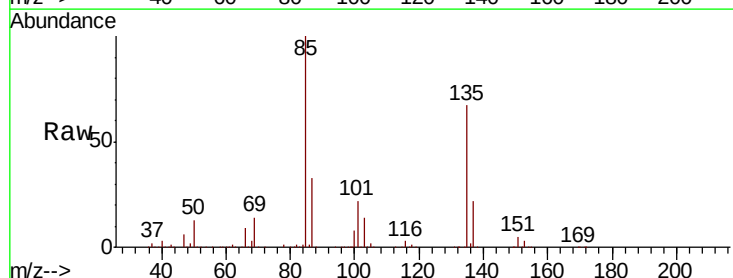
Acq: 21 Mar 2019 12:07

Tgt Ion: 85 Resp: 1274953

Ion Ratio Lower Upper

85 100

135 67.5 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

1200000

1000000

800000

600000

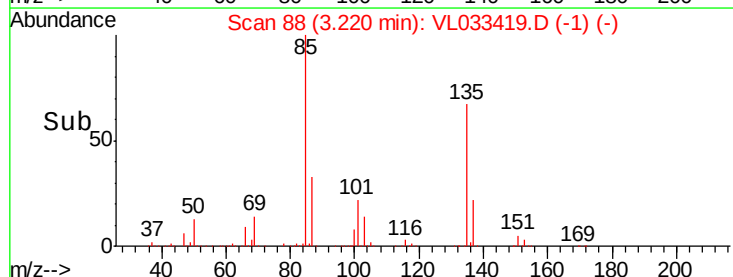
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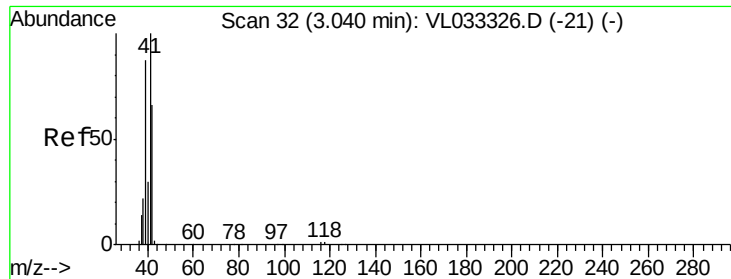
200000

0

3.20 3.25

Time-->





#9

Propene

Concen: 9.690 ppbv

RT: 3.04 min Scan# 31

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 399901

Ion Ratio Lower Upper

41 100

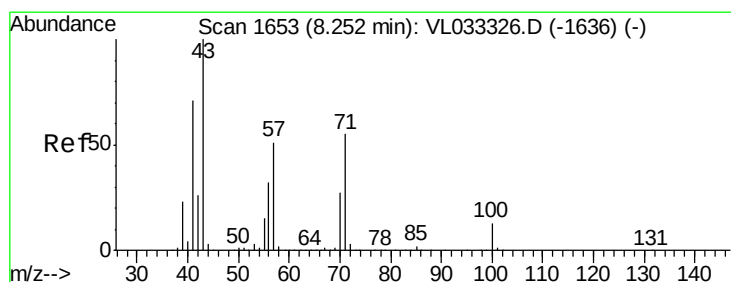
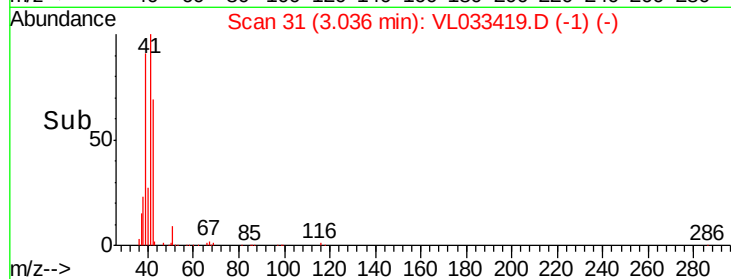
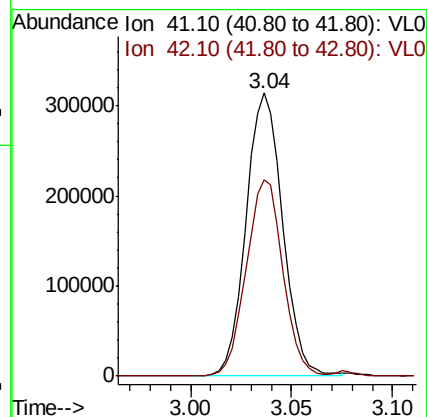
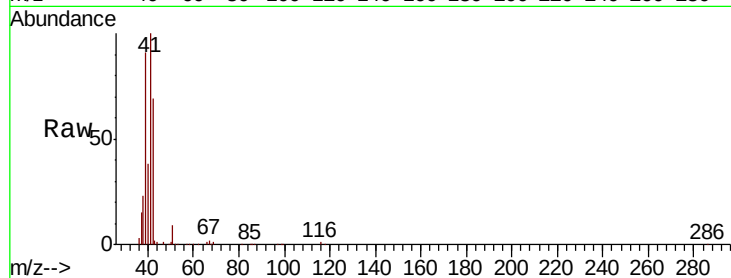
42 70.6 55.2 82.8

Manual Integrations

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3/25/2019 8:26:44 AM



#10

Heptane

Concen: 12.592 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033419.D

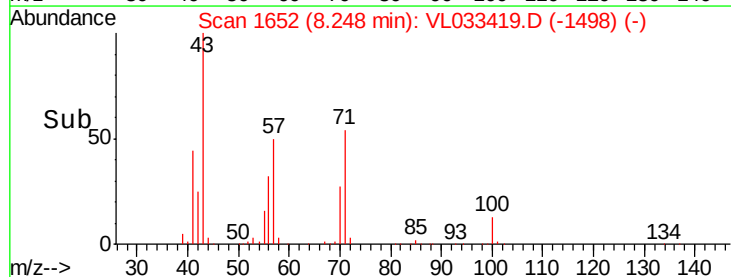
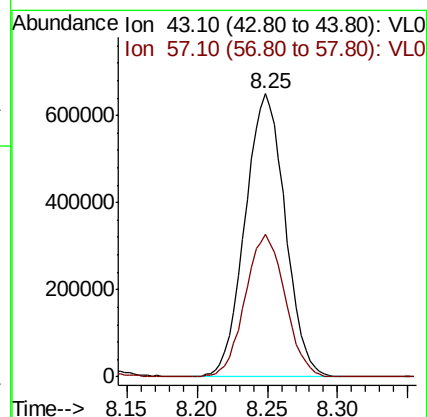
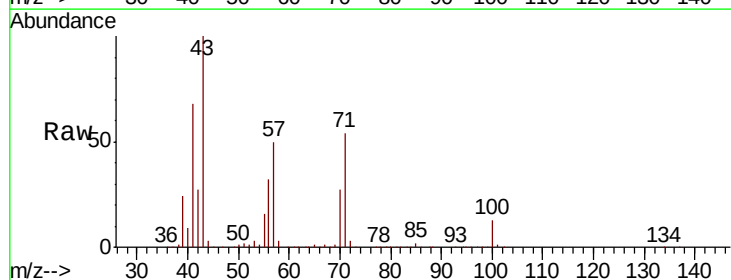
Acq: 21 Mar 2019 12:07

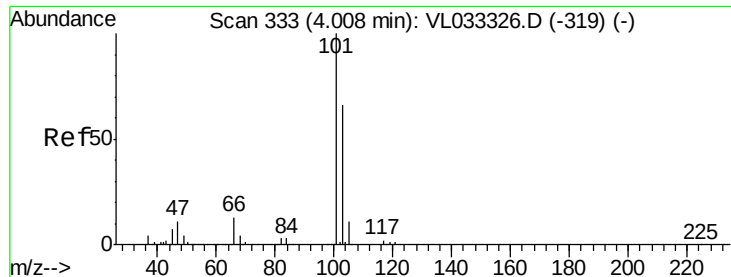
Tgt Ion: 43 Resp: 1288960

Ion Ratio Lower Upper

43 100

57 50.4 40.4 60.6





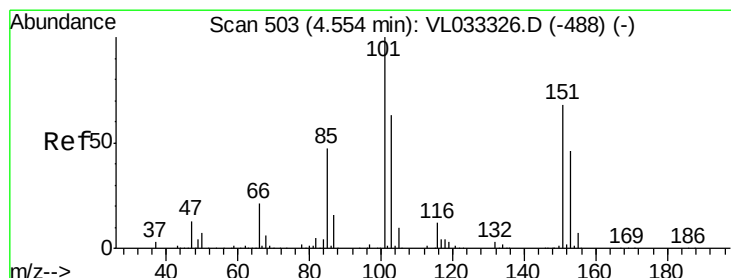
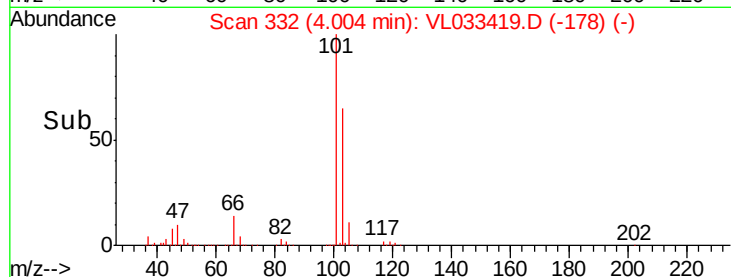
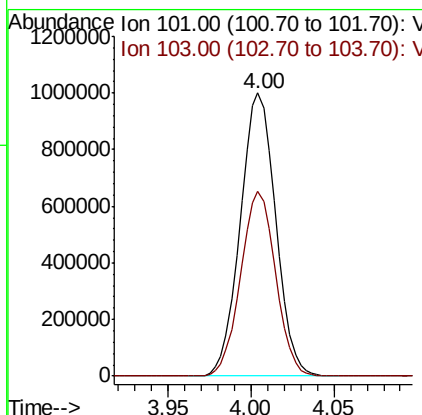
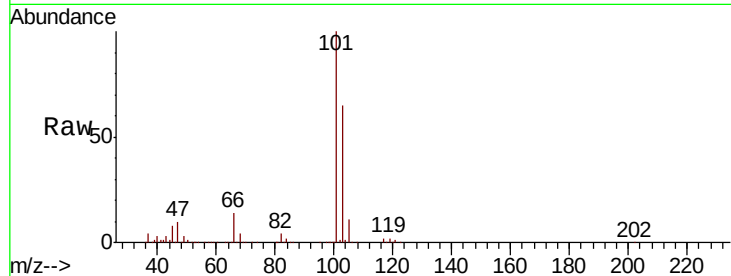
#11
 Trichlorofluoromethane
 Concen: 10.523 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1484287
 Ion Ratio Lower Upper
 101 100
 103 65.3 52.9 79.3

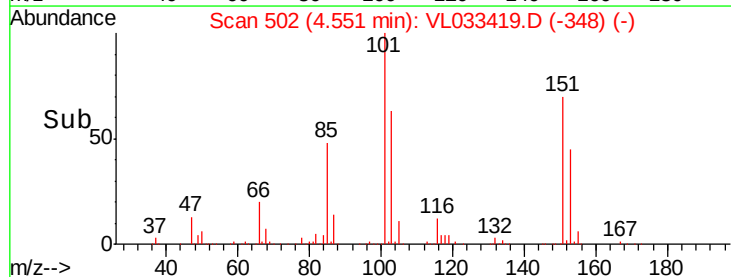
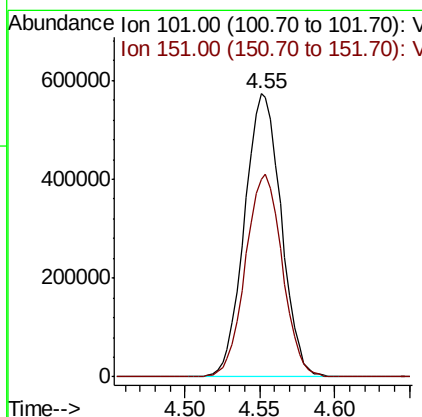
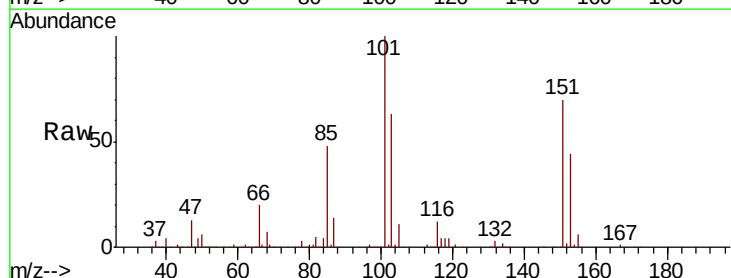
Manual Integrations
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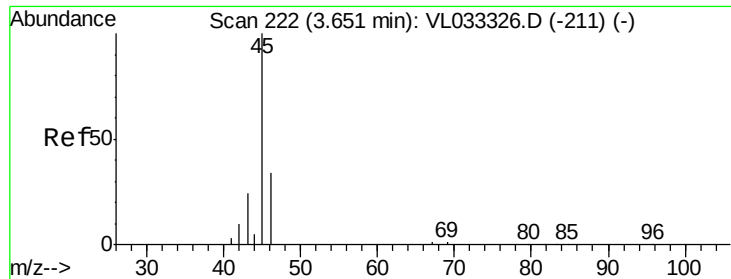
MMDadoda
 3/25/2019 8:26:44 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.476 ppbv
 RT: 4.55 min Scan# 502
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion:101 Resp: 980340
 Ion Ratio Lower Upper
 101 100
 151 71.8 56.3 84.5





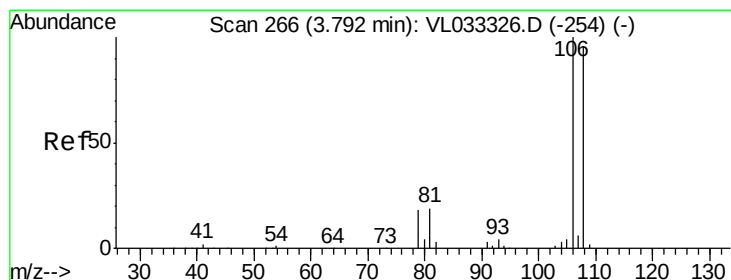
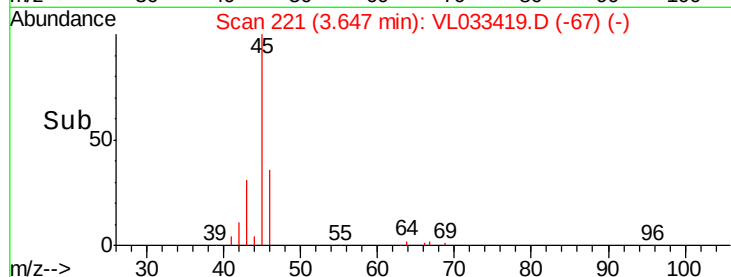
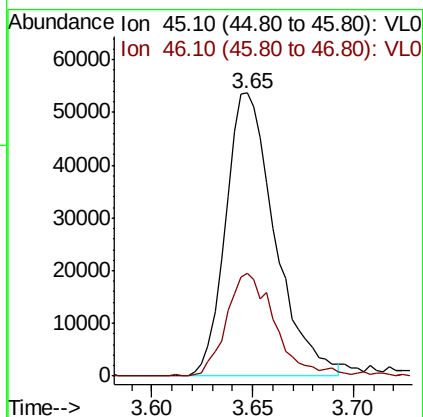
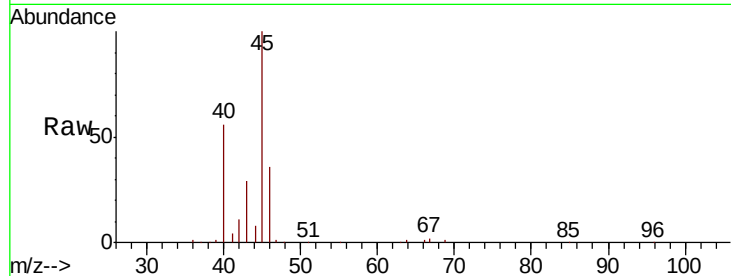
#13
Ethanol
Concen: 4.662 ppbv
RT: 3.65 min Scan# 221
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 45 Resp: 91724
Ion Ratio Lower Upper
45 100
46 36.7 14.9 59.7

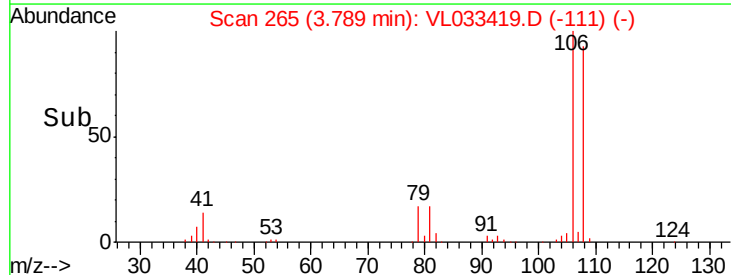
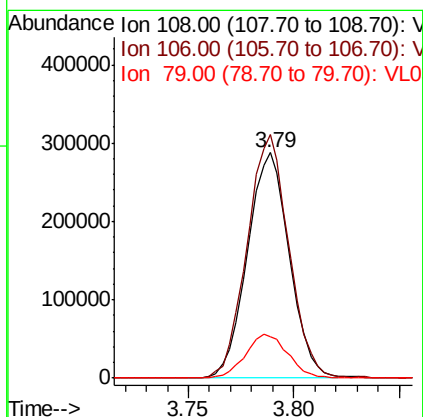
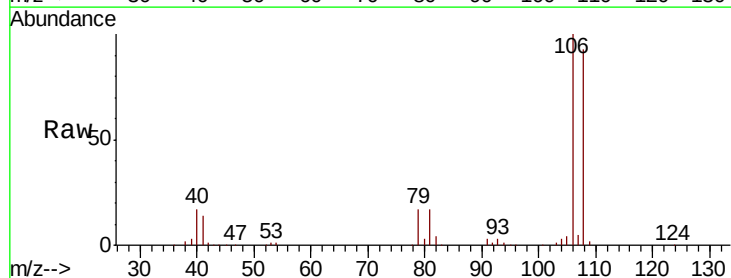
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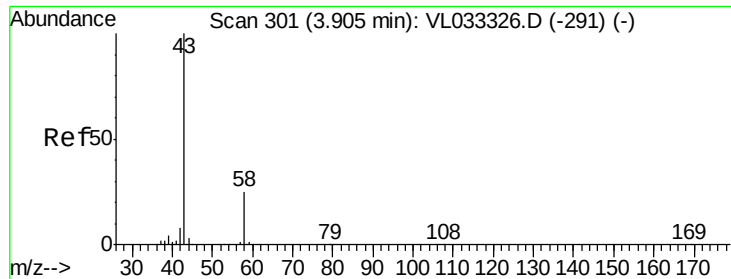
MMDadoda
3/25/2019 8:26:44 AM



#14
Bromoethene
Concen: 10.216 ppbv
RT: 3.79 min Scan# 265
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion: 108 Resp: 398481
Ion Ratio Lower Upper
108 100
106 108.1 86.2 129.2
79 19.7 15.4 23.2





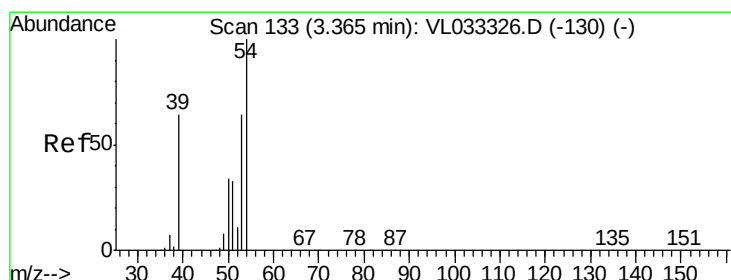
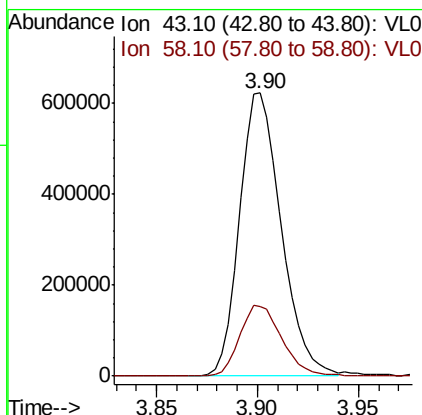
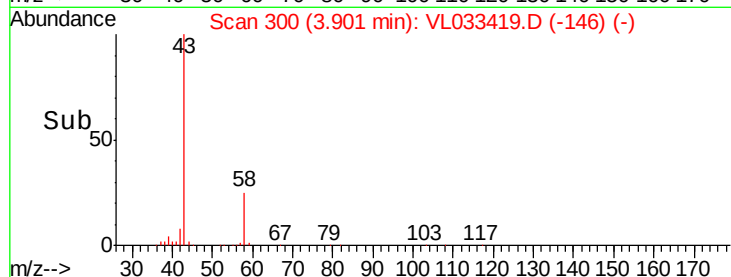
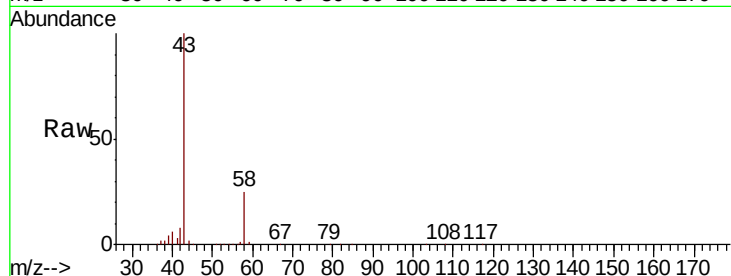
#15
Acetone
Concen: 7.228 ppbv
RT: 3.90 min Scan# 300
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	43	Resp	904964
Ion Ratio	100	Lower	Upper
43	100		
58	25.6	20.4	30.6

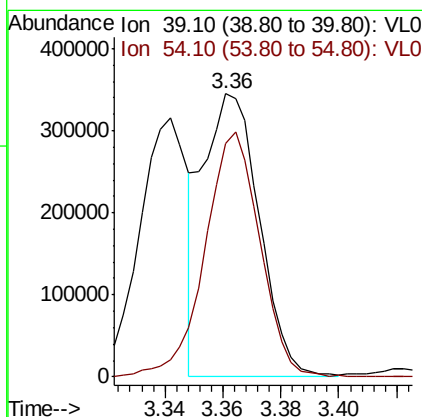
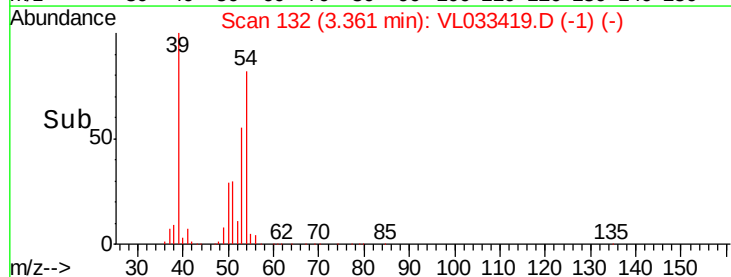
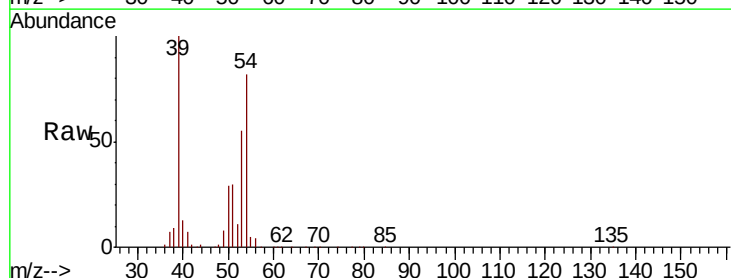
Manual Integrations
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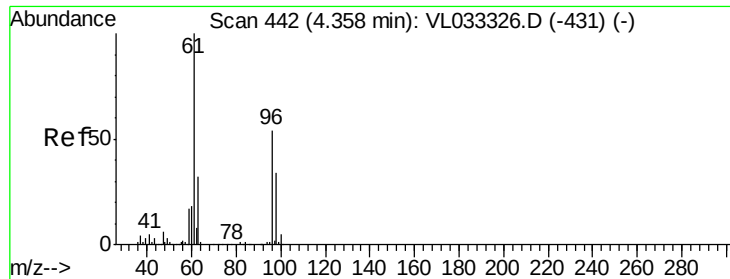
MMDadoda
3/25/2019 8:26:44 AM



#16
1,3-Butadiene
Concen: 11.366 ppbv
RT: 3.36 min Scan# 132
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion	39	Resp	462255
Ion Ratio	100	Lower	Upper
39	100		
54	85.4	76.8	115.2





#17

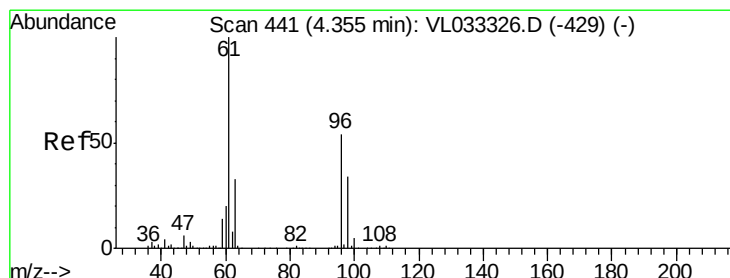
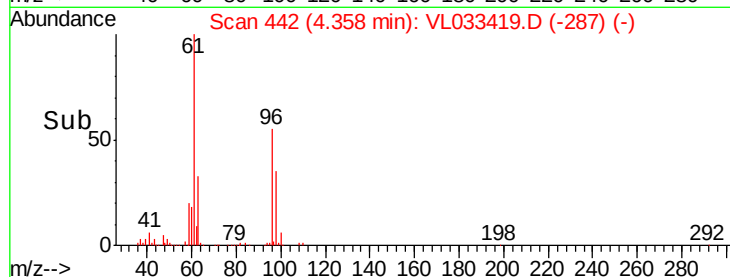
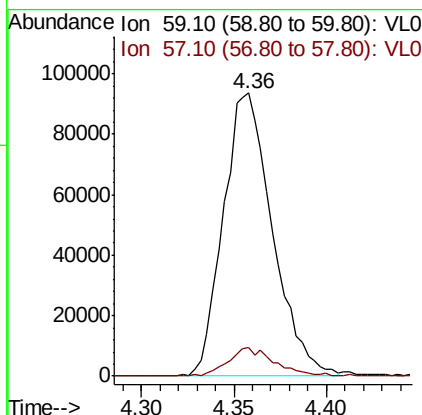
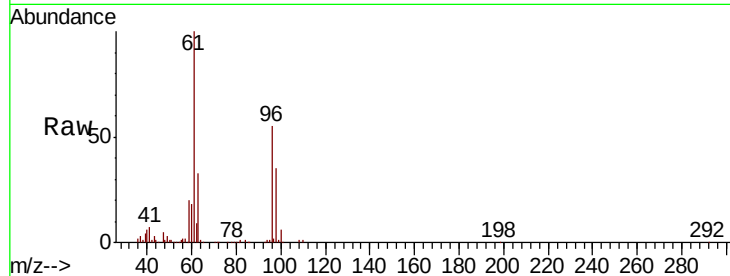
tert-Butyl alcohol
 Concen: 9.766 ppbv
 RT: 4.36 min Scan# 442
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 59 Resp: 172083
 Ion Ratio Lower Upper
 59 100
 57 9.5 7.7 11.5

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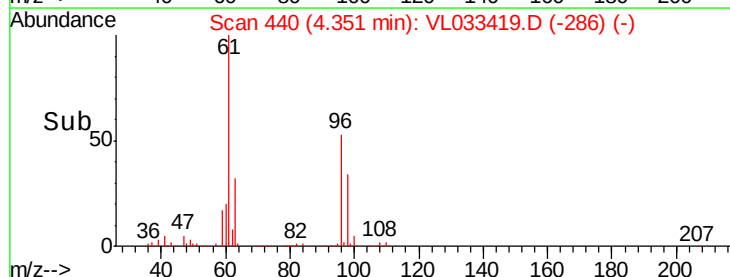
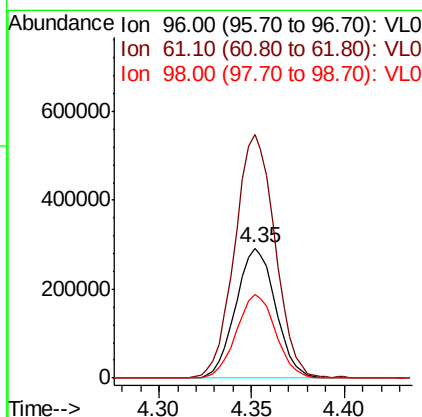
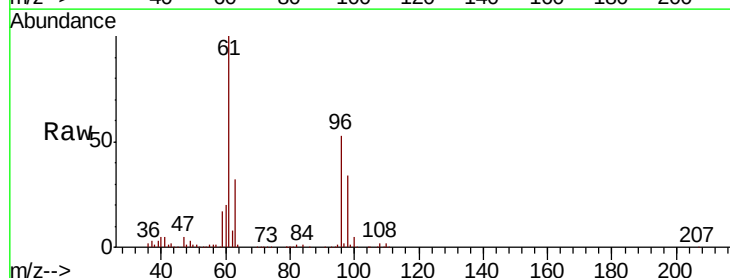
MMDadoda
 3/25/2019 8:26:44 AM

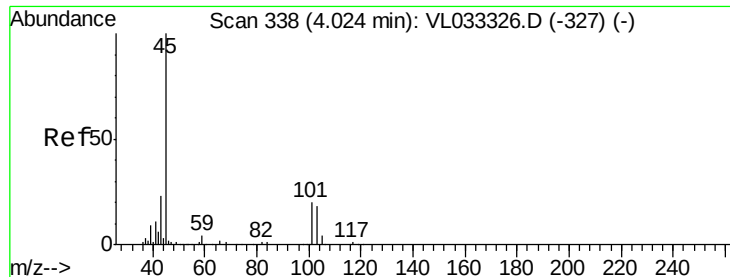


#18

1,1-Dichloroethene
 Concen: 10.232 ppbv
 RT: 4.35 min Scan# 440
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion: 96 Resp: 437843
 Ion Ratio Lower Upper
 96 100
 61 186.7 148.6 222.8
 98 63.8 50.3 75.5





#19

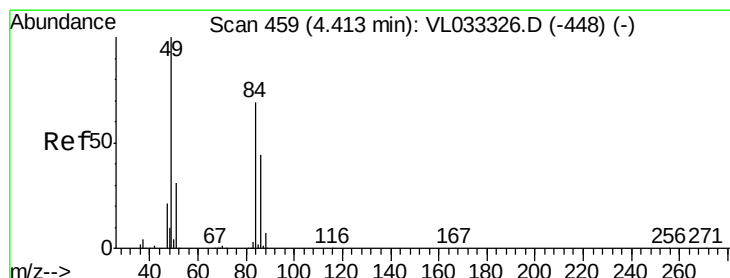
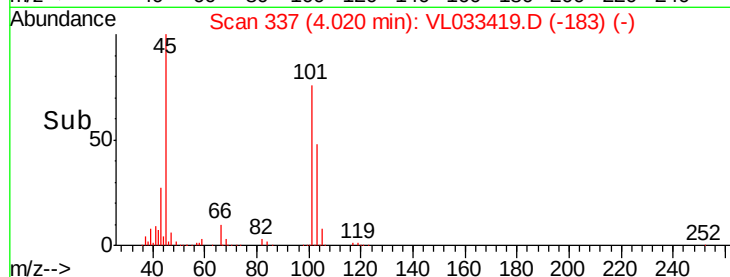
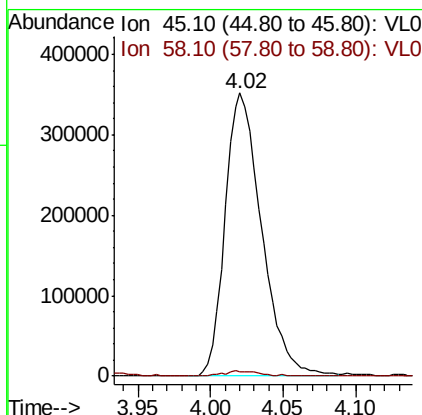
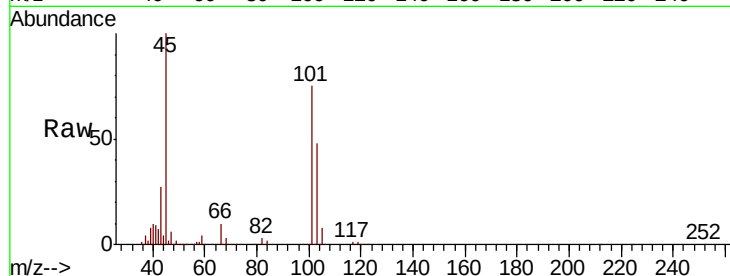
Isopropyl Alcohol
 Concen: 10.344 ppbv
 RT: 4.02 min Scan# 337
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	45	Ratio	Lower	Upper
45	100			
58	2.2	1.5	2.3	

Manual Integrations
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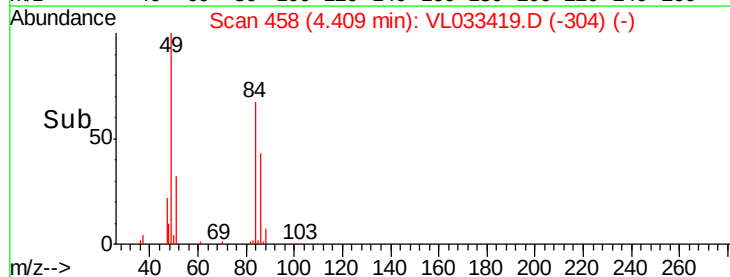
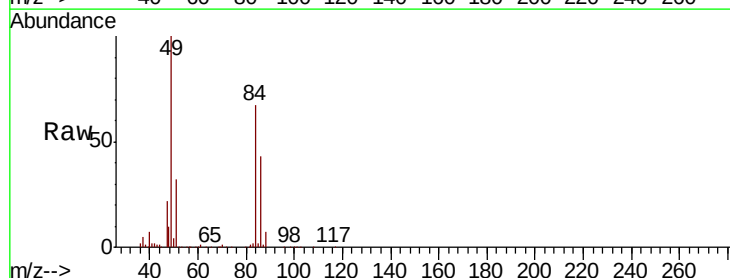
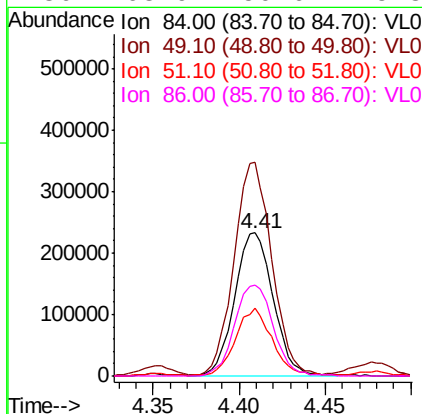
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 3/25/2019 8:26:44 AM

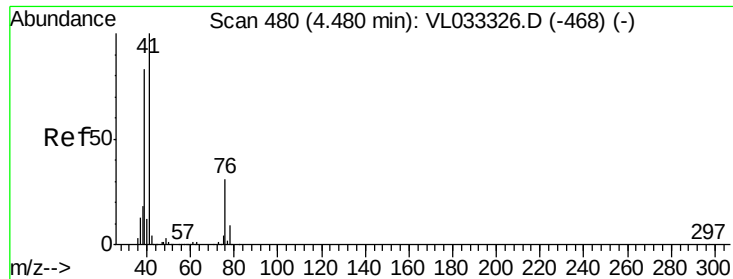


#20

Methylene Chloride
 Concen: 8.846 ppbv
 RT: 4.41 min Scan# 458
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion	84	Ratio	Lower	Upper
84	100			
49	148.5	115.4	173.0	
51	47.2	35.8	53.6	
86	63.9	50.6	75.8	





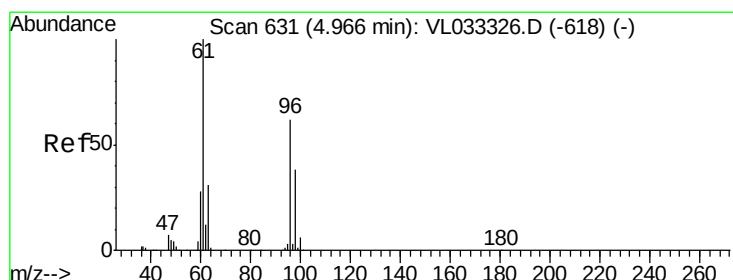
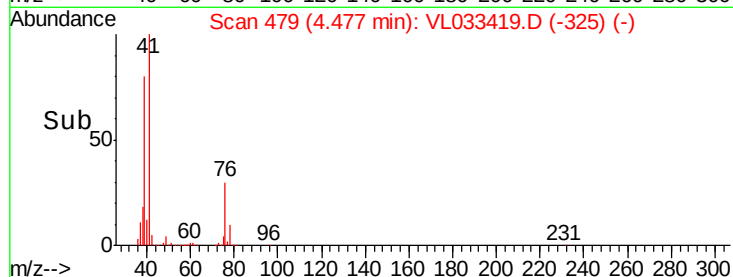
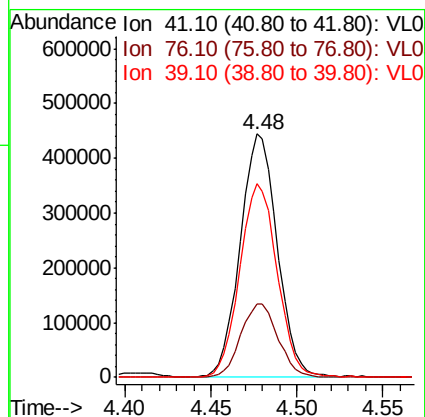
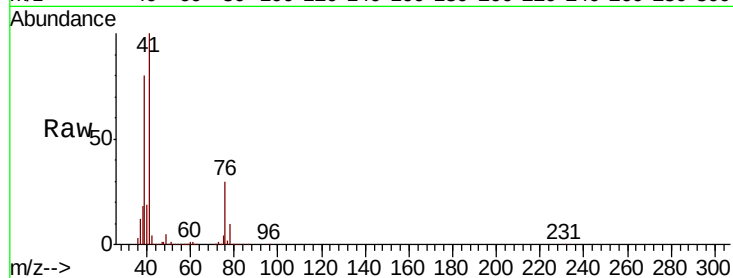
#21
Allvl Chloride
Concen: 10.904 ppbv
RT: 4.48 min Scan# 479
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:	41	Resp:	662319
Ion Ratio	Lower	Upper	
41	100		
76	30.4	25.0	37.4
39	80.9	65.9	98.9

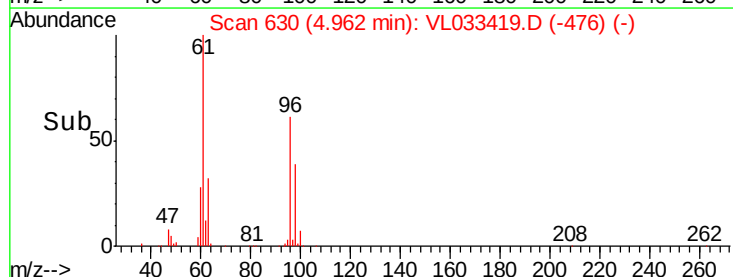
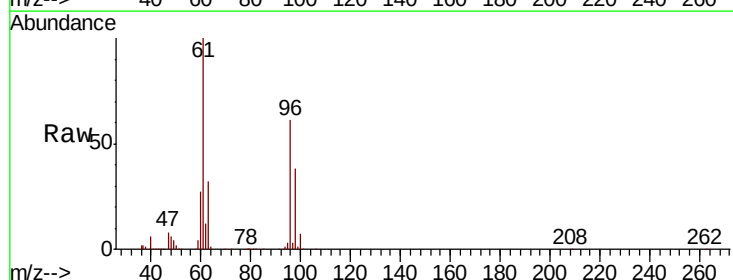
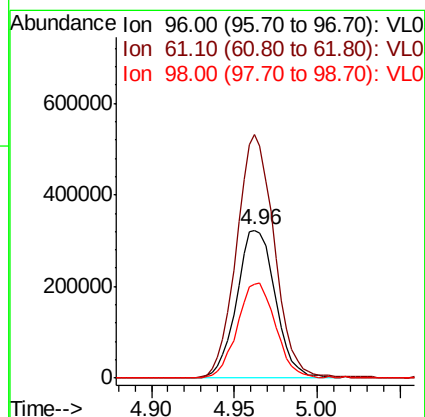
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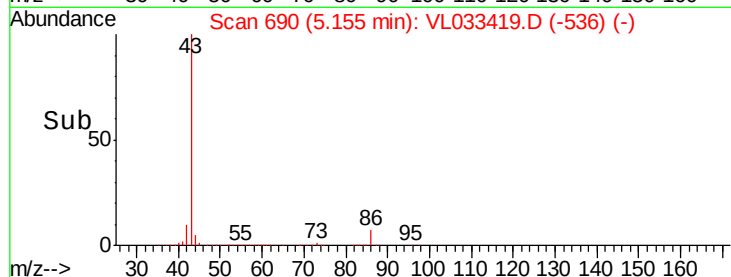
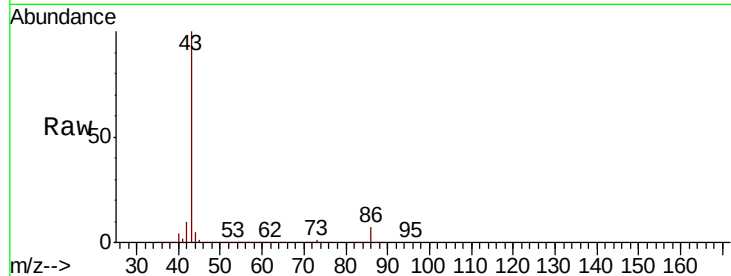
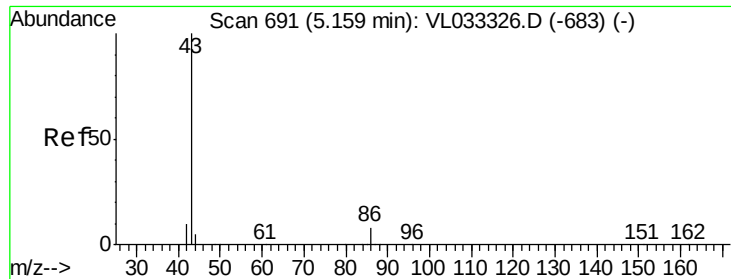
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 12.655 ppbv
RT: 4.96 min Scan# 630
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

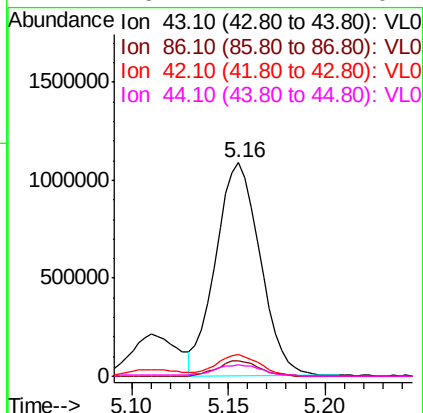
Tgt Ion:	96	Resp:	524783
Ion Ratio	Lower	Upper	
96	100		
61	164.2	130.0	195.0
98	63.1	50.0	75.0





#23
 Vinyl Acetate
 Concen: 11.981 ppbv
 RT: 5.16 min Scan# 690
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

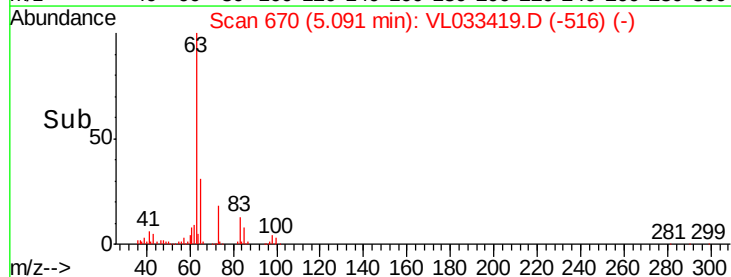
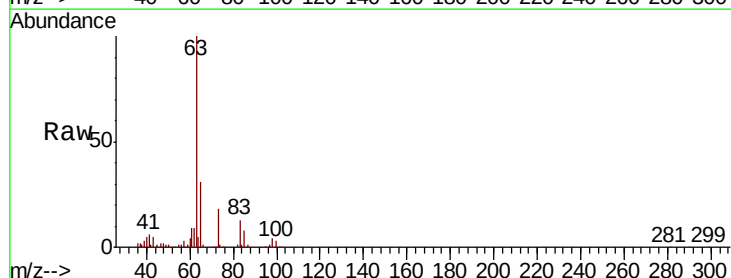
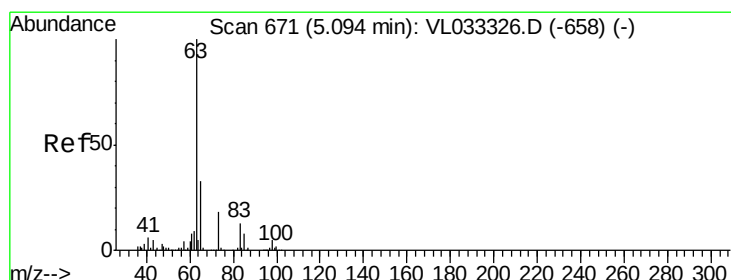
Tot Ion	Ion	Ratio	Lower	Upper
43	100			
86	7.0	6.2	9.2	
42	10.4	8.1	12.1	
44	5.2	4.1	6.1	



Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

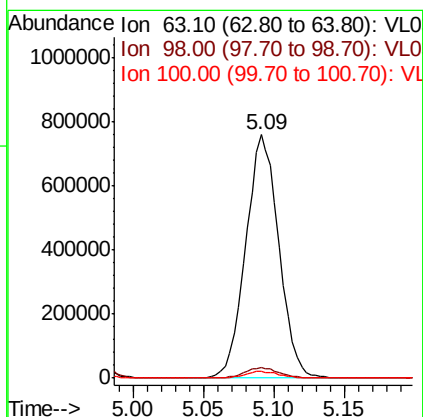
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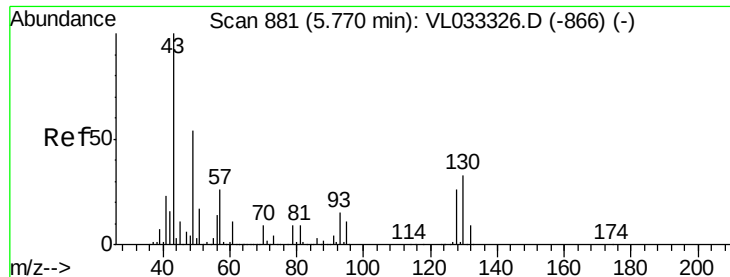
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 11.929 ppbv
 RT: 5.09 min Scan# 670
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.3	2.4	7.1	
100	2.8	1.3	3.8	





#25

Ethyl Acetate

Concen: 11.864 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 2159438

Ion Ratio Lower Upper

43 100

45 9.7 7.9 11.9

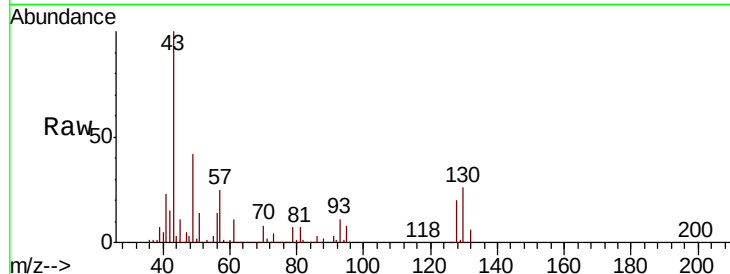
61 9.3 7.4 11.2

70 7.0 5.7 8.5

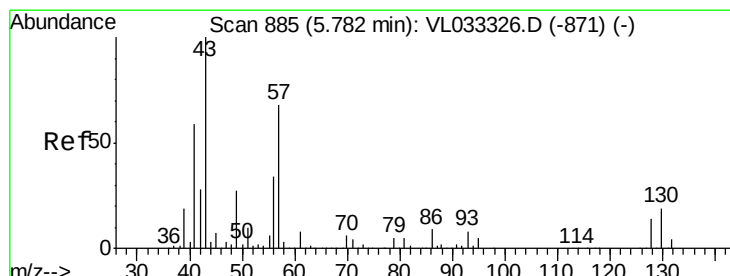
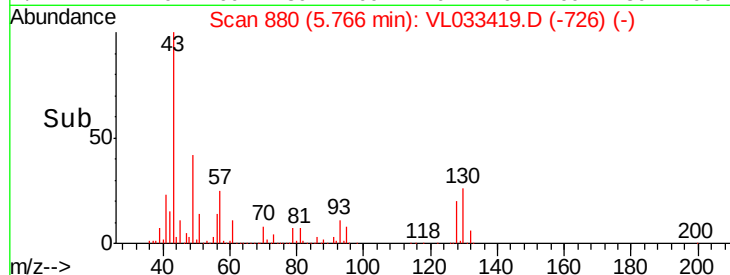
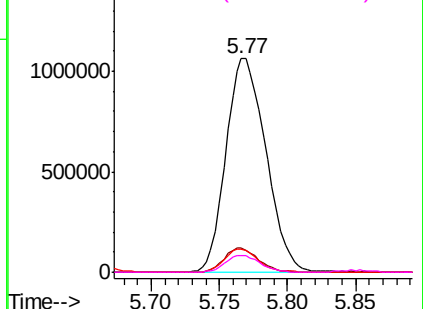
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Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



#26

Hexane

Concen: 11.653 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Tgt Ion: 57 Resp: 948224

Ion Ratio Lower Upper

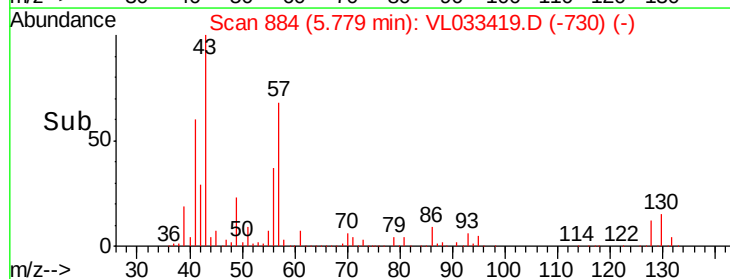
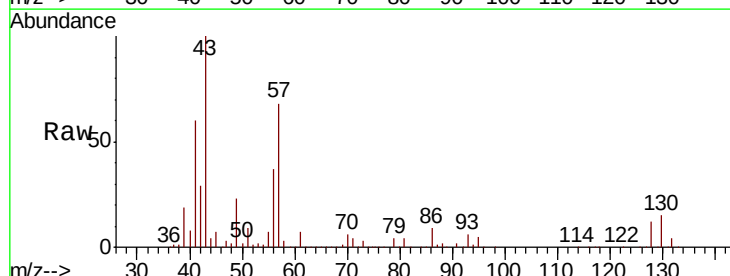
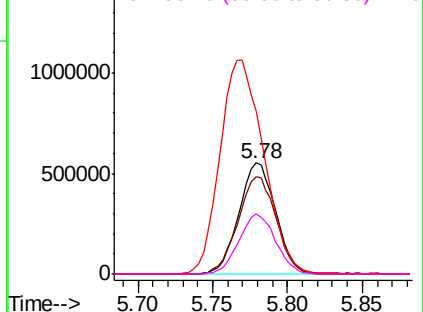
57 100

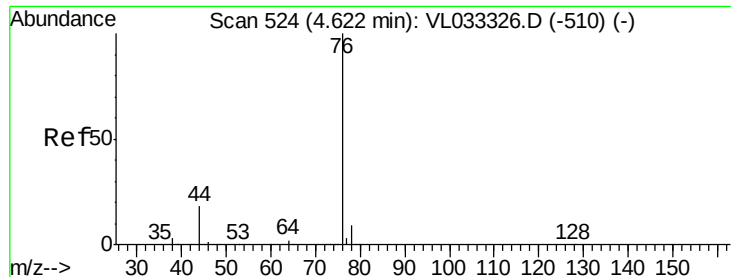
41 90.8 70.5 105.7

43 229.3 181.8 272.8

56 53.8 42.2 63.2

Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 11.203 ppbv

RT: 4.62 min Scan# 524

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1049414

Ion Ratio Lower Upper

76 100

44 18.6 15.2 22.8

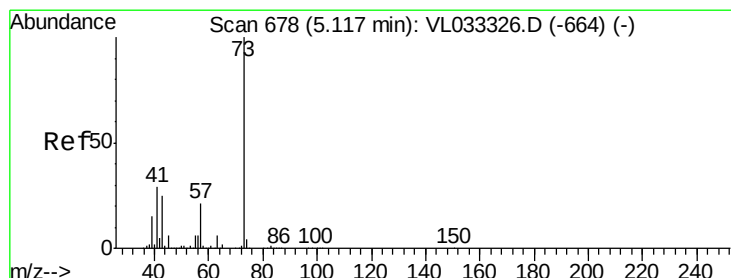
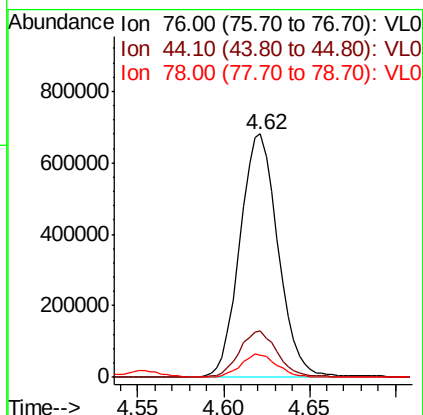
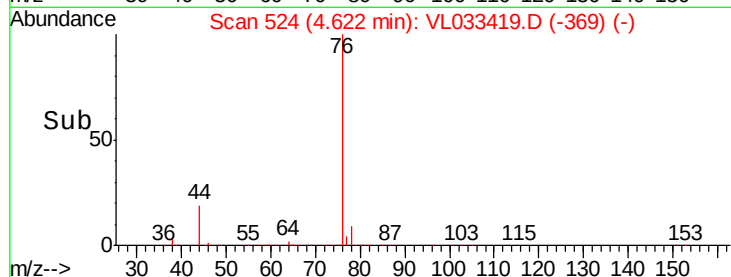
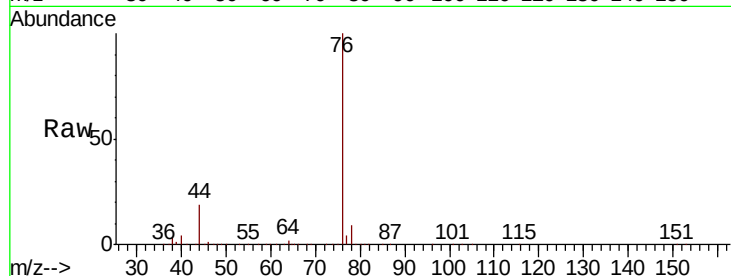
78 9.1 7.2 10.8

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#28

Methyl tert-Butyl Ether

Concen: 11.925 ppbv

RT: 5.11 min Scan# 676

Delta R.T. -0.01 min

Lab File: VL033419.D

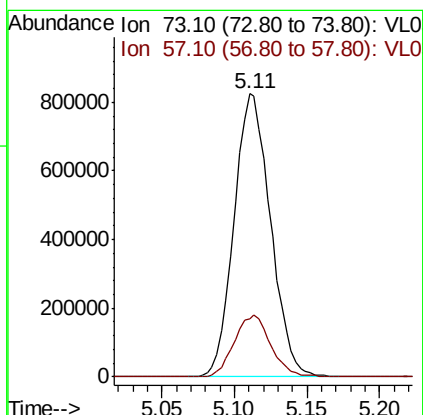
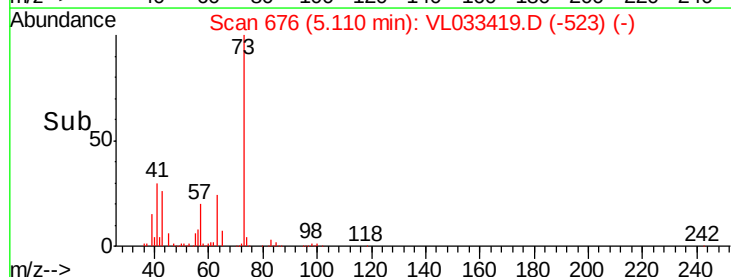
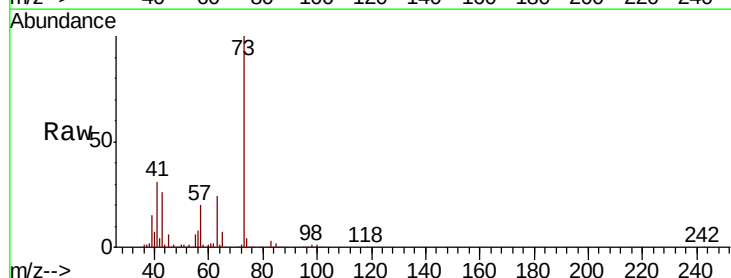
Acq: 21 Mar 2019 12:07

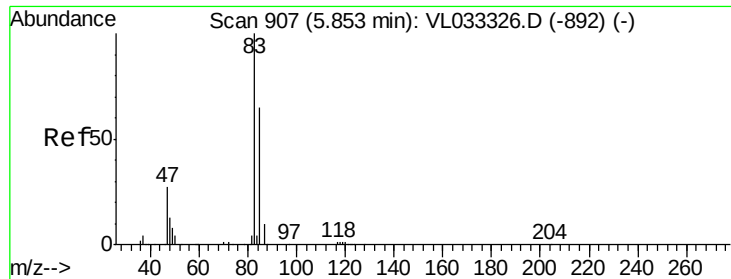
Tgt Ion: 73 Resp: 1441309

Ion Ratio Lower Upper

73 100

57 22.0 17.4 26.0





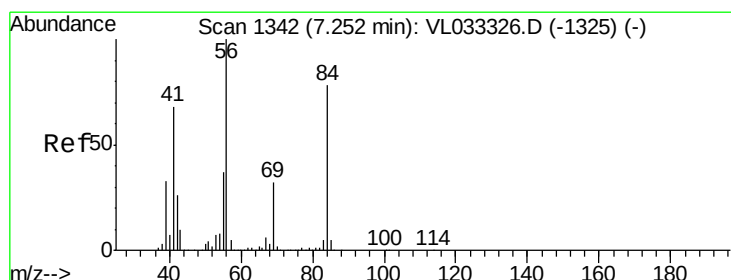
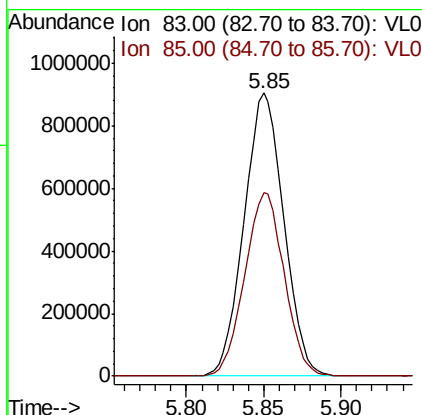
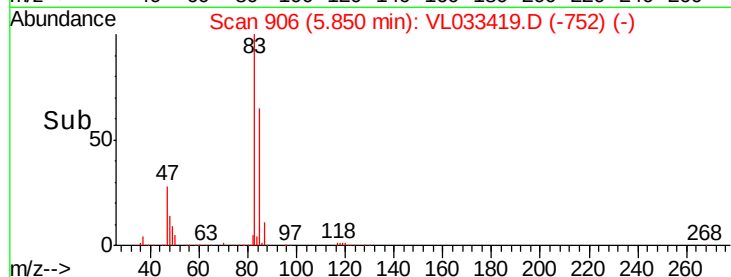
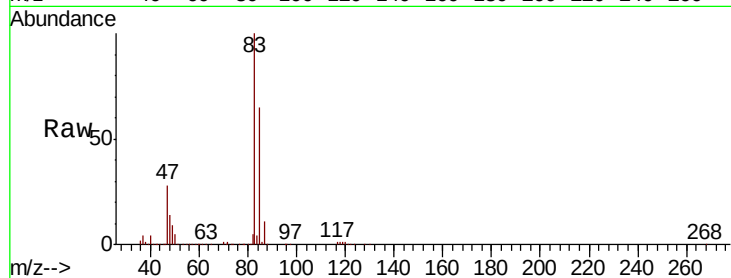
#29
Chloroform
Concen: 12.145 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1618127
Ion Ratio Lower Upper
83 100
85 64.6 52.0 78.0

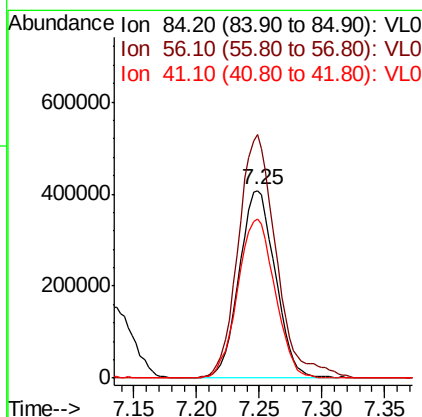
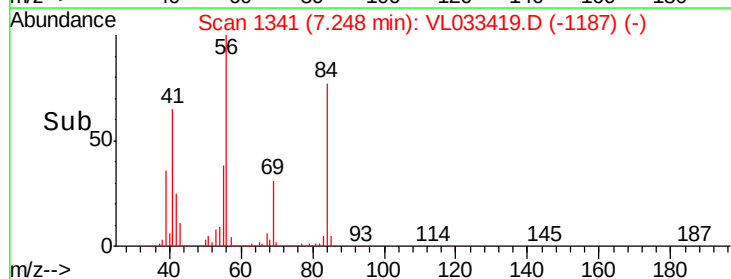
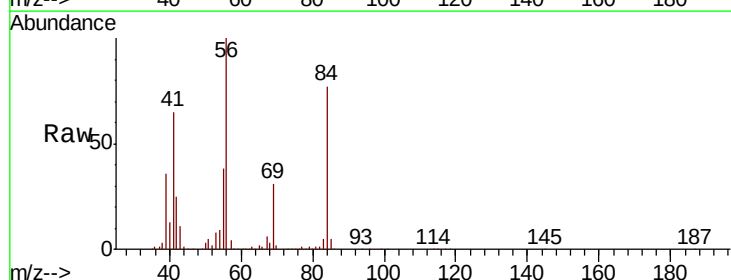
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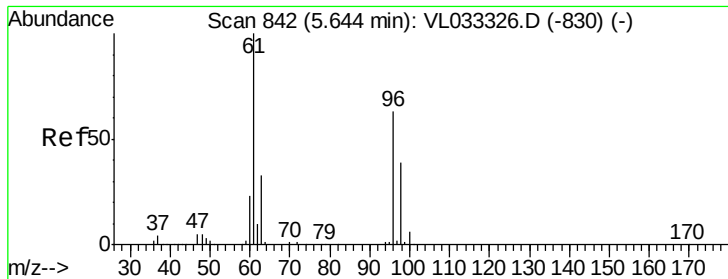
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#30
Cyclohexane
Concen: 12.459 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion: 84 Resp: 812817
Ion Ratio Lower Upper
84 100
56 136.8 111.3 166.9
41 87.7 69.6 104.4





#31

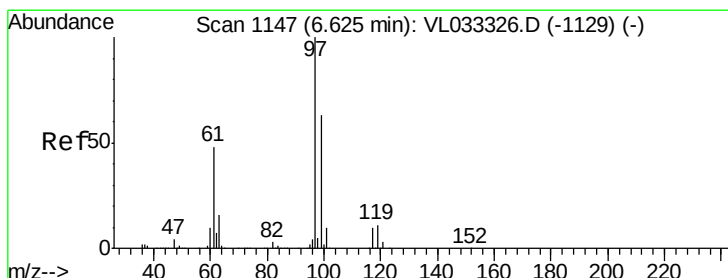
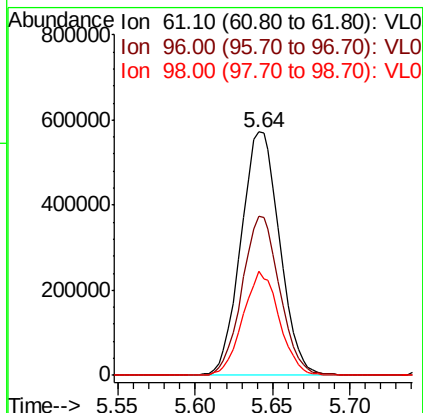
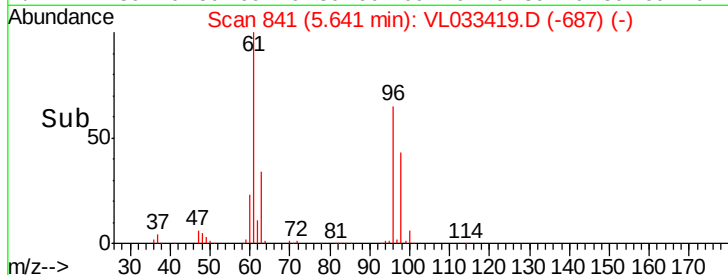
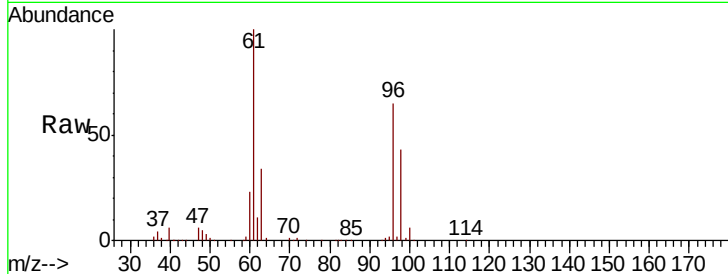
cis-1,2-Dichloroethene
Concen: 12.248 ppbv
RT: 5.64 min Scan# 841
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Resp	Lower	Upper
61	100	996495		
96	65.3		50.3	75.5
98	43.0		31.5	47.3

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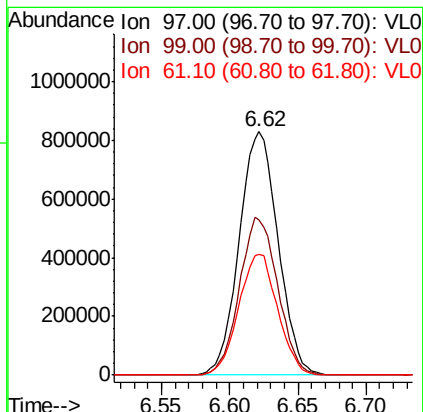
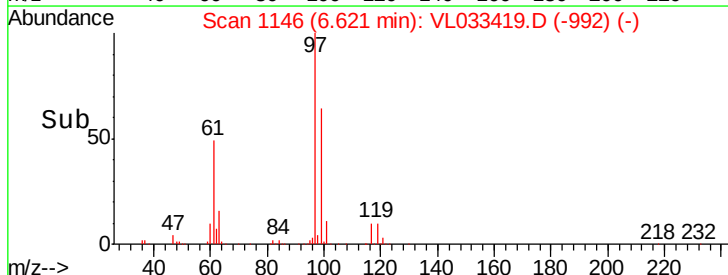
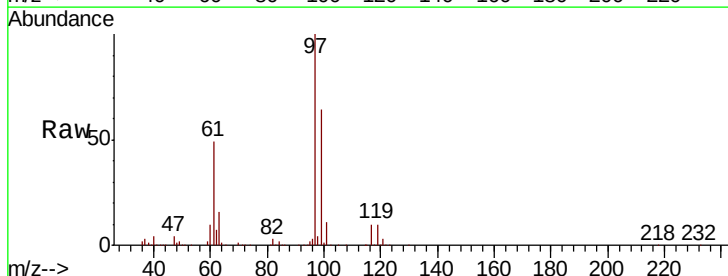
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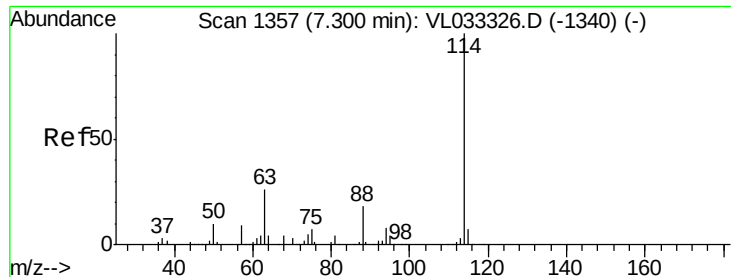


#32

1,1,1-Trichloroethane
Concen: 12.543 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	1640849		
99	64.1		51.0	76.6
61	50.0		39.3	58.9





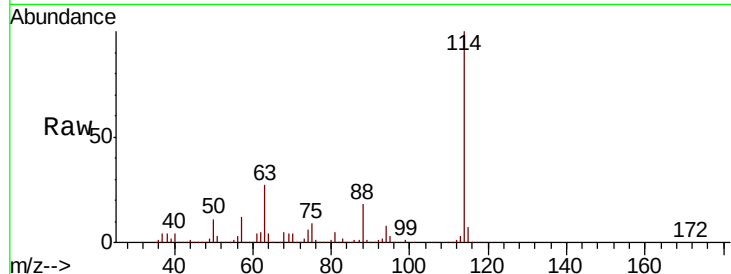
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

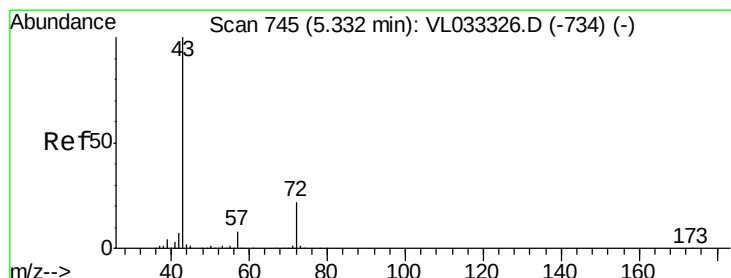
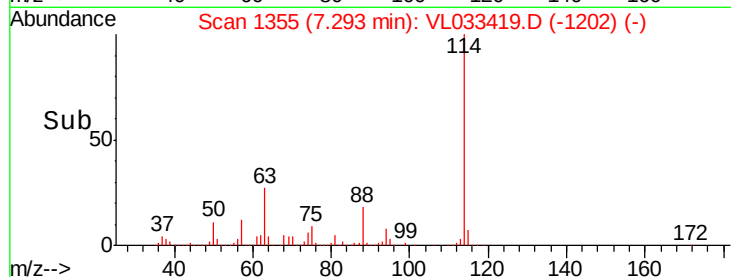
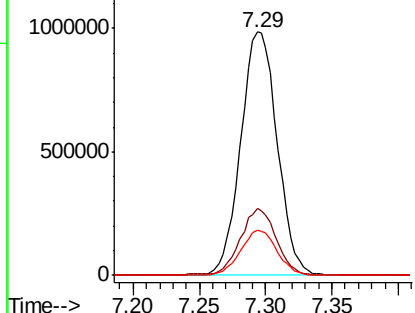
Tot Ion	Ratio	Lower	Upper
114	100		
63	27.3	21.4	32.2
88	18.4	14.5	21.7

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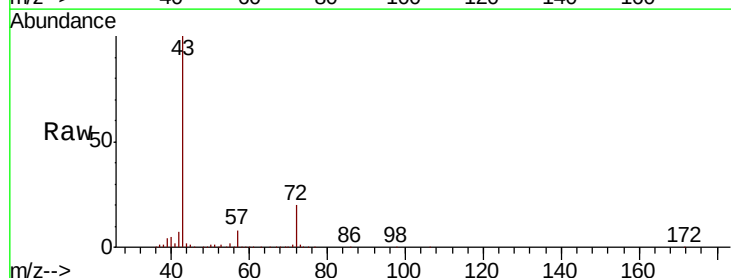


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

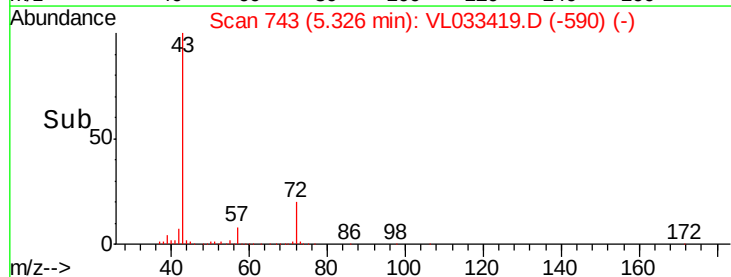
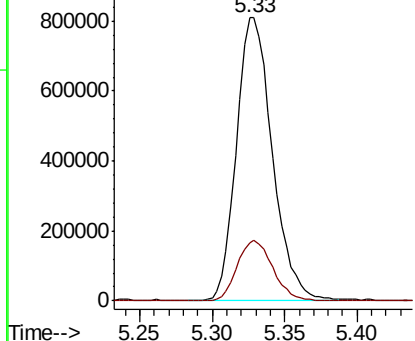


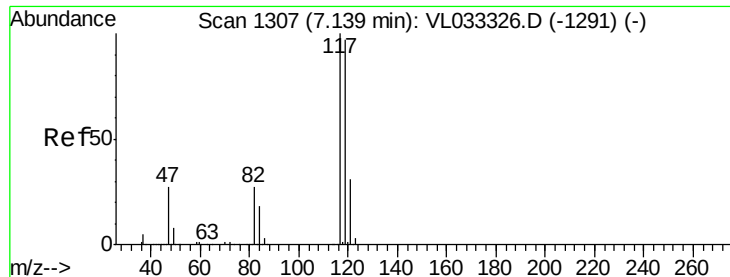
#34
 2-Butanone
 Concen: 11.228 ppbv
 RT: 5.33 min Scan# 743
 Delta R.T. -0.01 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.5	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: 12.877 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1710948

Ion Ratio Lower Upper

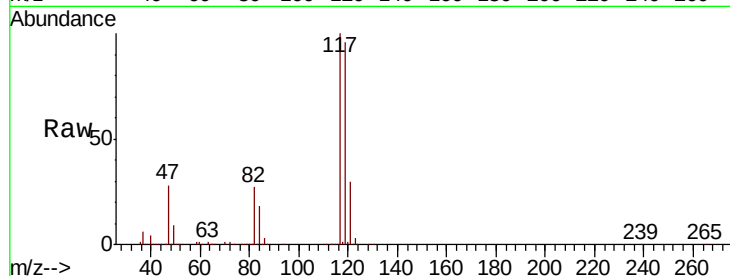
117 100

119 95.8 77.4 116.0

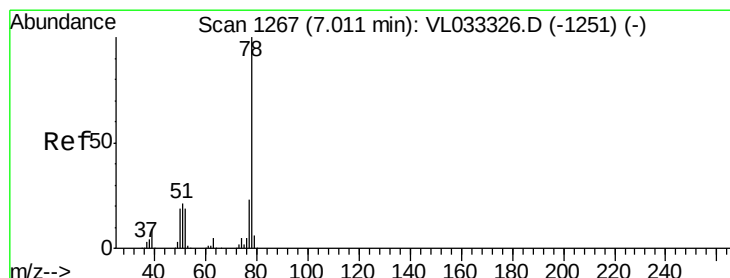
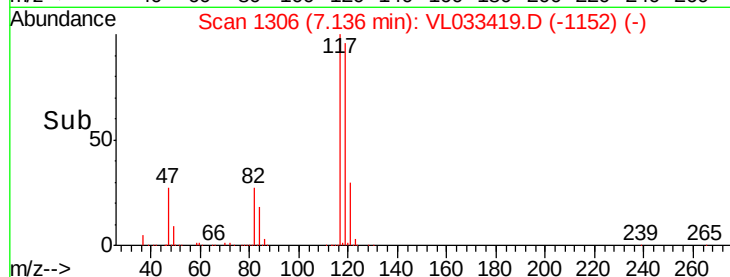
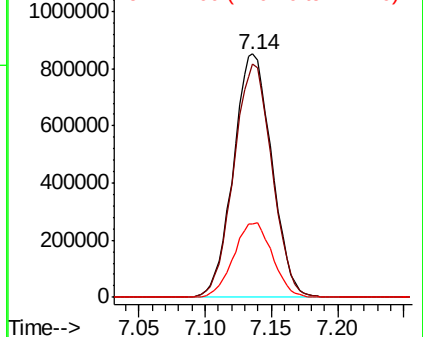
121 29.9 24.9 37.3

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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: 11.854 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

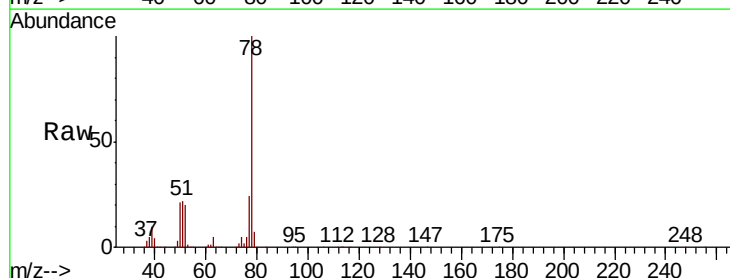
Tgt Ion: 78 Resp: 1999342

Ion Ratio Lower Upper

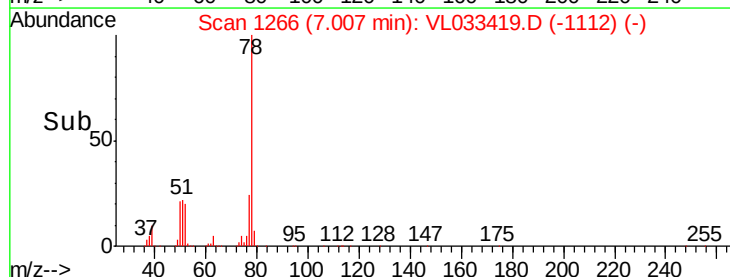
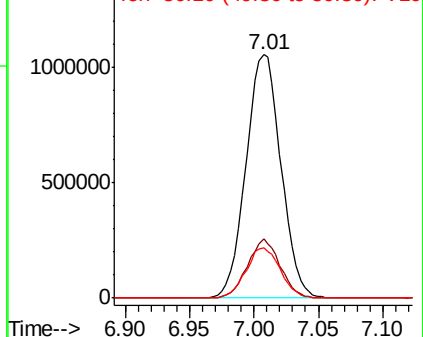
78 100

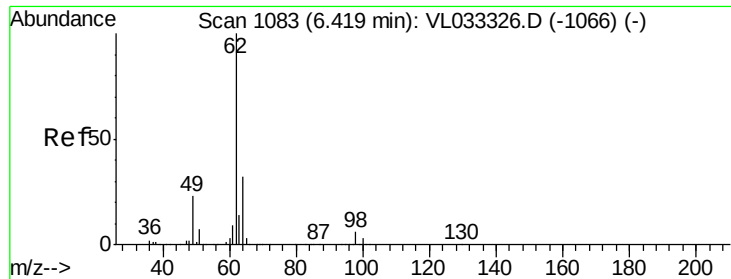
77 24.3 18.1 27.1

50 20.5 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





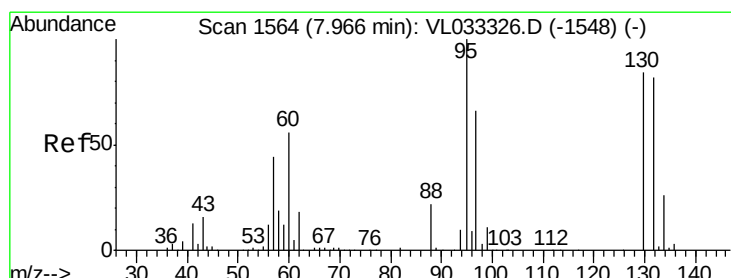
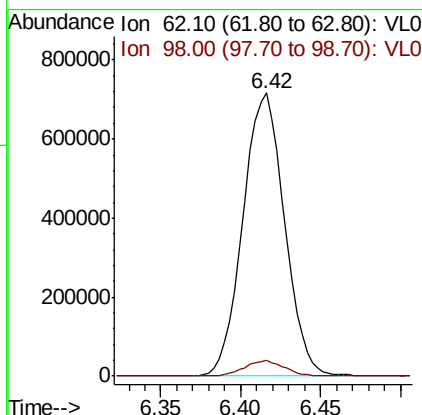
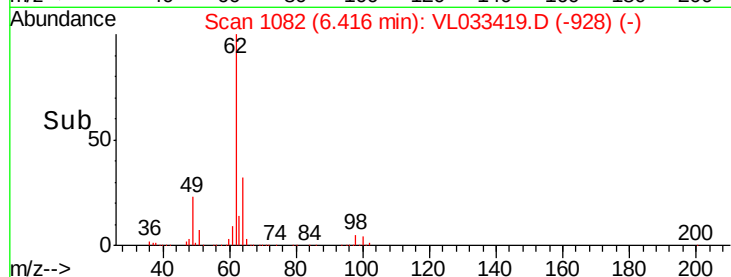
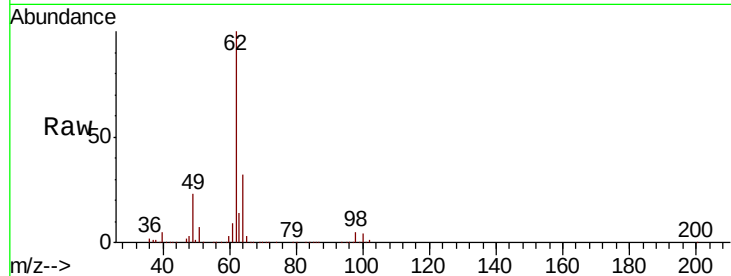
#37
 1,2-Dichloroethane
 Concen: 11.888 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1267788
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.5 6.7

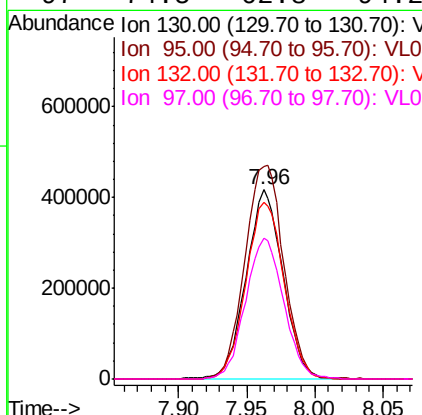
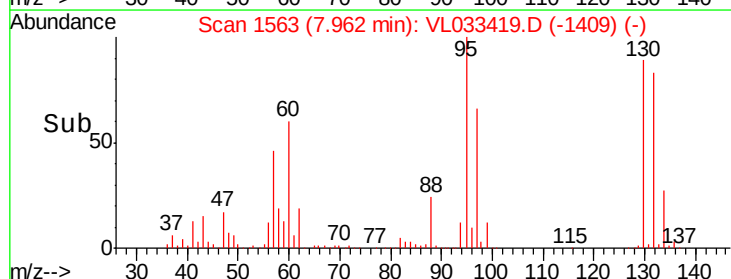
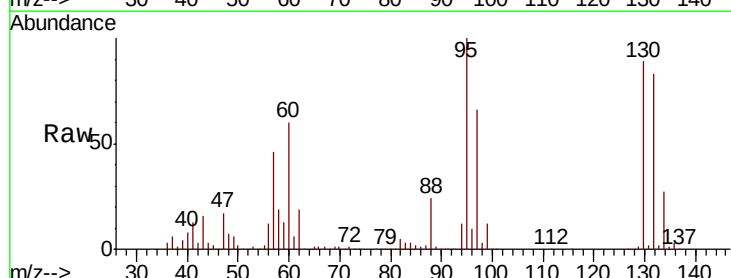
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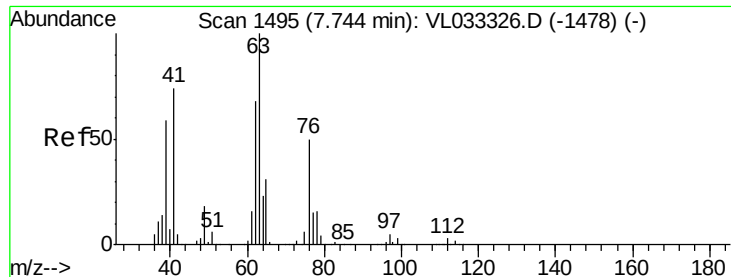
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#38
 Trichloroethene
 Concen: 12.290 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion:130 Resp: 784397
 Ion Ratio Lower Upper
 130 100
 95 112.4 95.2 142.8
 132 93.5 77.7 116.5
 97 74.5 62.8 94.2





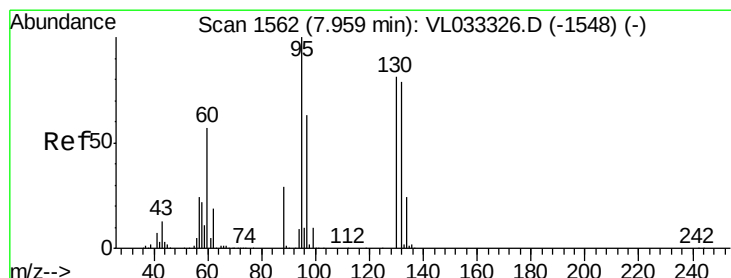
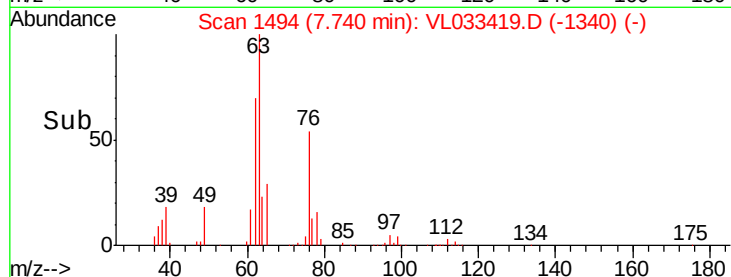
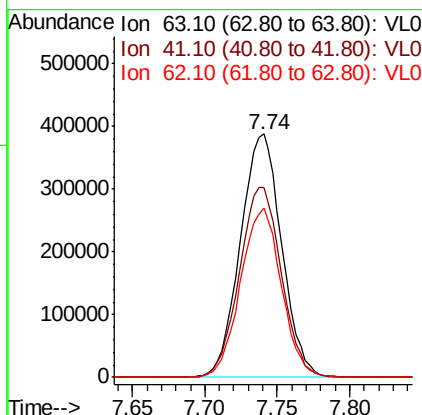
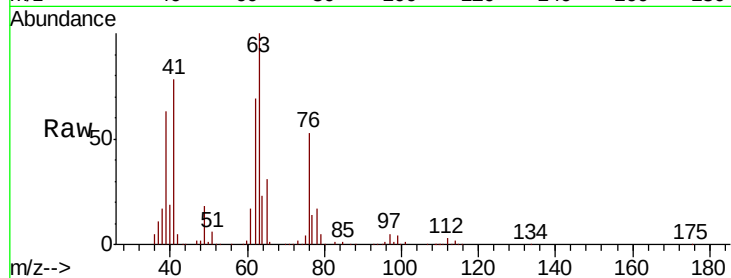
#39
 1,2-Dichloropropane
 Concen: 12.173 ppbv
 RT: 7.74 min Scan# 1494
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.9	59.5	89.3
62	69.5	54.7	82.1

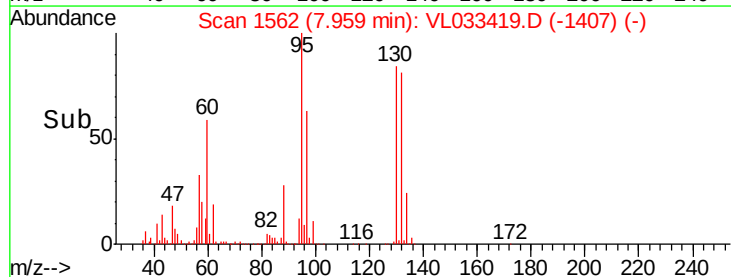
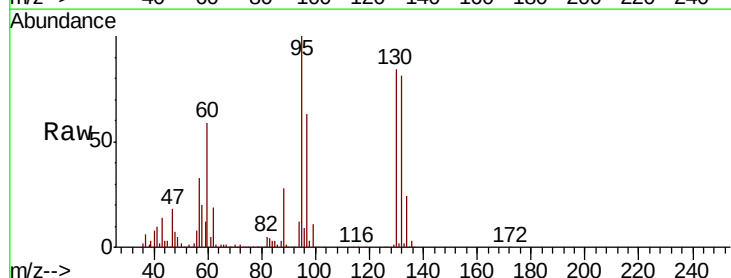
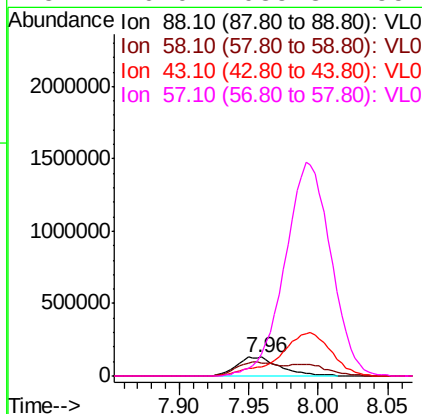
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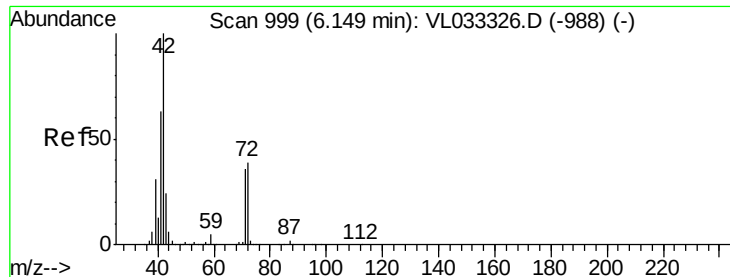
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#40
 1,4-Dioxane
 Concen: 12.857 ppbv m
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
88	100		
58	127.6	107.9	161.9
43	0.0	230.8	346.2#
57	0.0	1035.3	1552.9#





#41

Tetrahydrofuran

Concen: 12.084 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

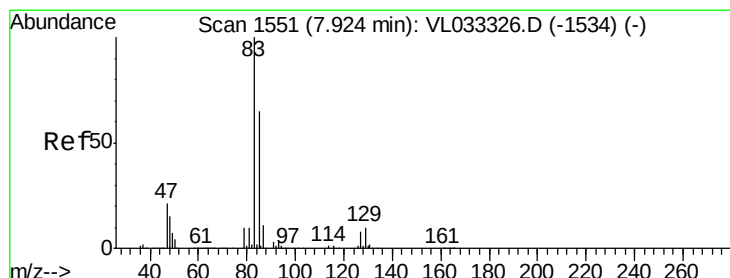
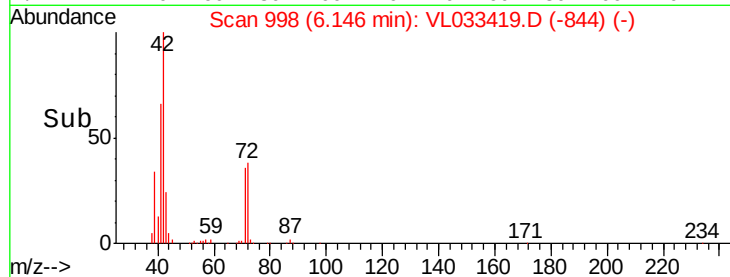
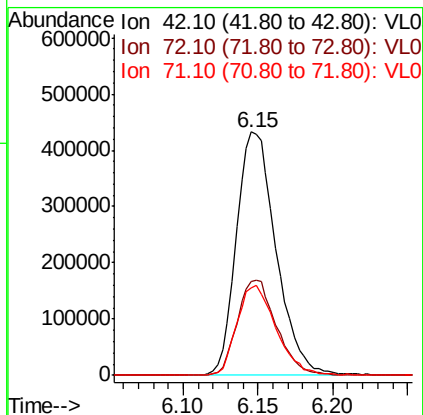
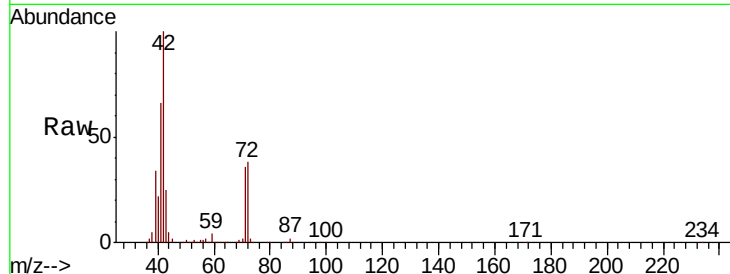
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	798131
Ion Ratio		Lower	Upper
42	100		
72	38.9	31.6	47.4
71	36.7	29.9	44.9

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#42

Bromodichloromethane

Concen: 12.713 ppbv

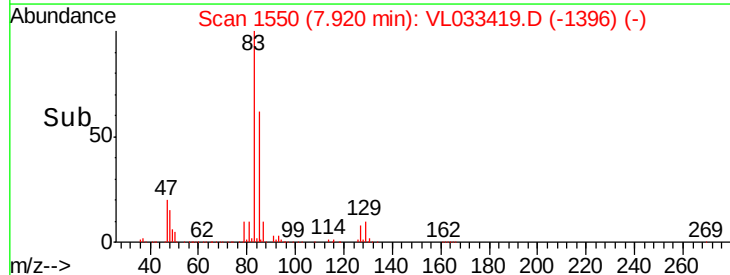
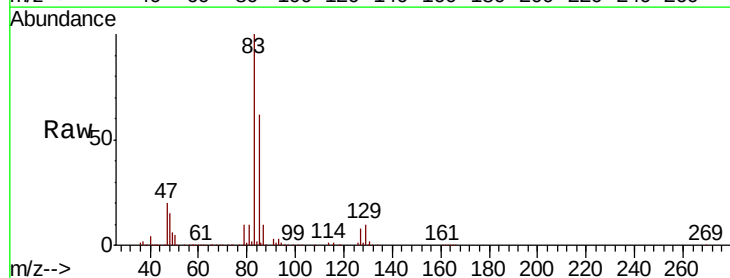
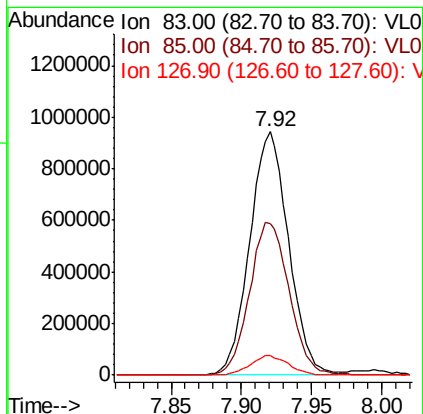
RT: 7.92 min Scan# 1550

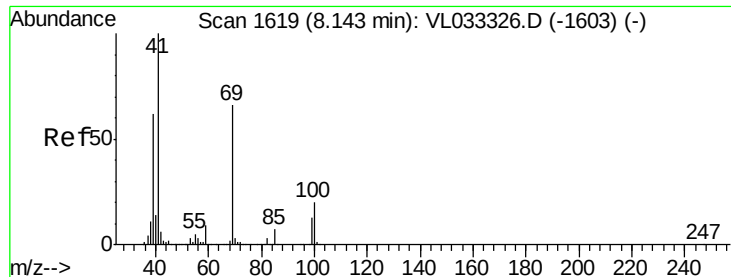
Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Tgt Ion:	83	Resp:	1817725
Ion Ratio		Lower	Upper
83	100		
85	62.0	51.8	77.6
127	7.8	6.2	9.2





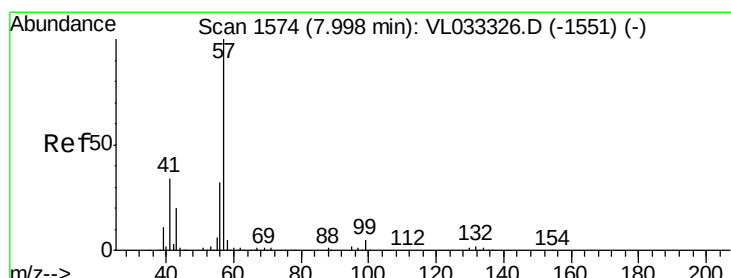
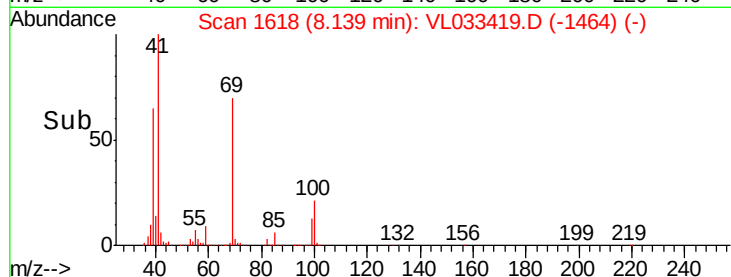
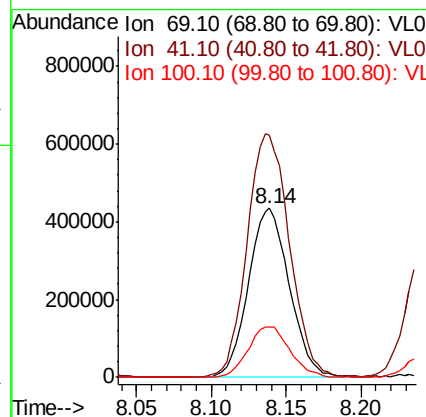
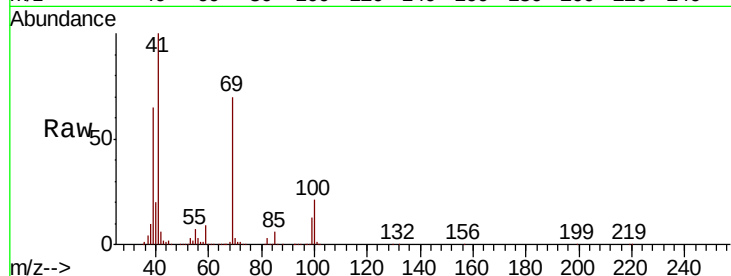
#43
Methvl Methacrylate
Concen: 12.617 ppbv
RT: 8.14 min Scan# 1618
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
69	100		
41	148.7	119.5	179.3
100	30.6	24.4	36.6

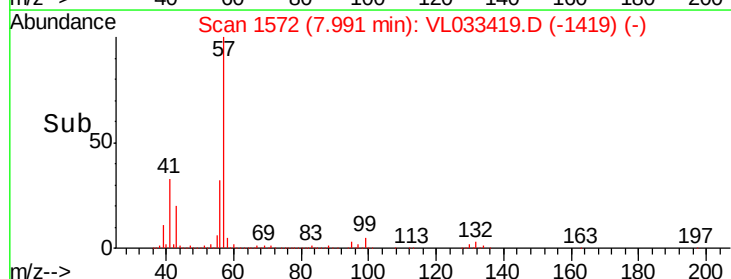
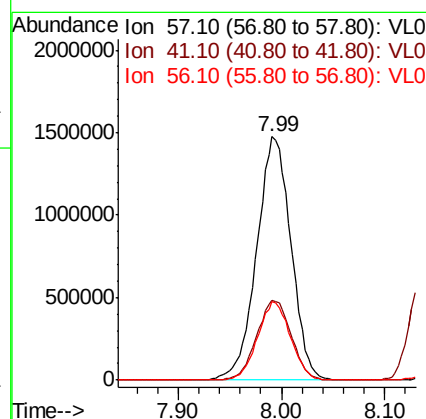
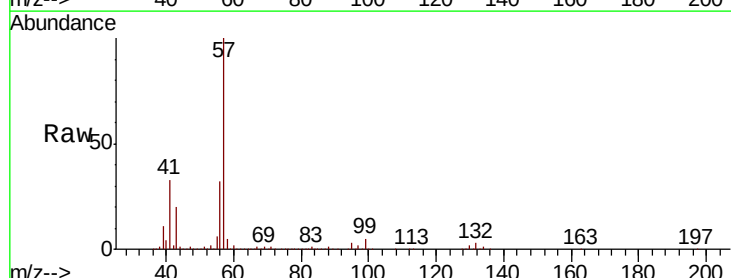
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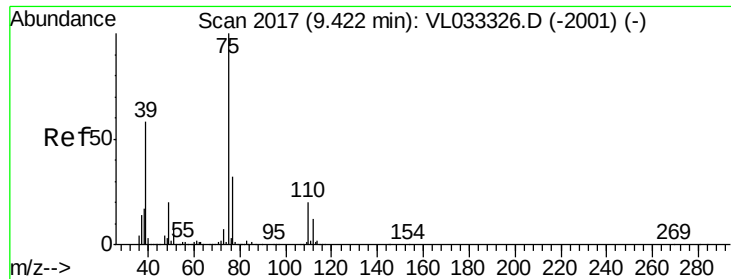
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#44
2,2,4-Trimethylpentane
Concen: 12.181 ppbv
RT: 7.99 min Scan# 1572
Delta R.T. -0.01 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
57	100		
41	33.0	26.0	39.0
56	30.9	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 13.488 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 75 Resp: 1093624

Ion Ratio Lower Upper

75 100

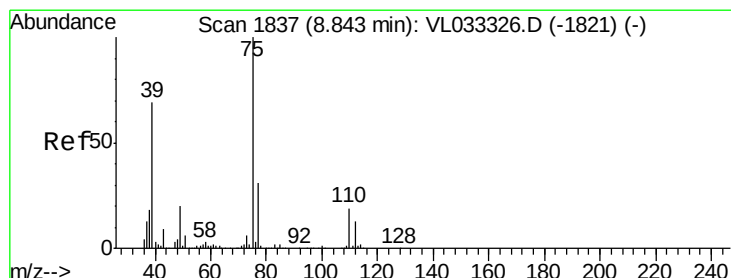
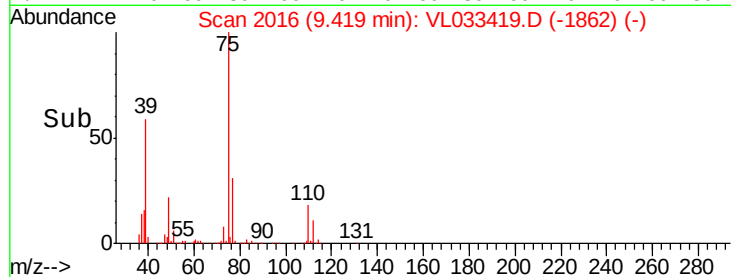
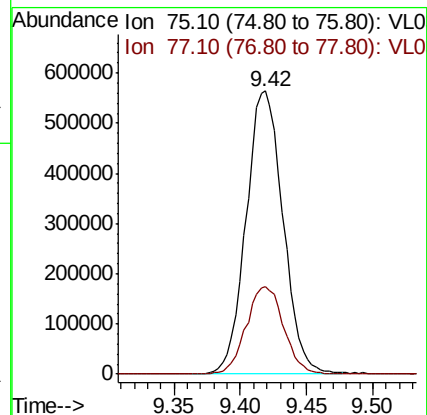
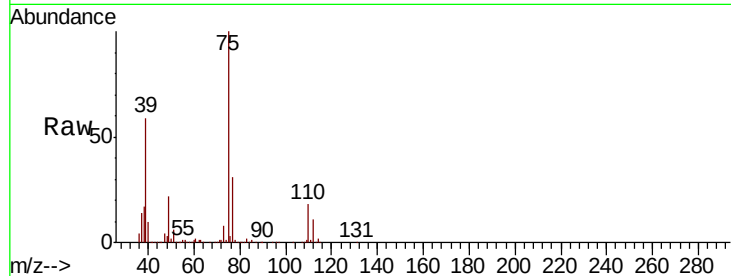
77 31.0 25.5 38.3

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#46

cis-1,3-Dichloropropene

Concen: 13.087 ppbv

RT: 8.84 min Scan# 1836

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

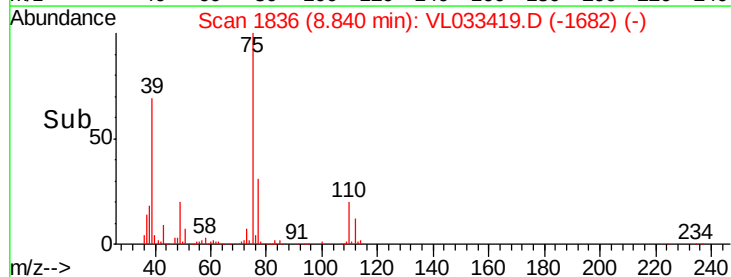
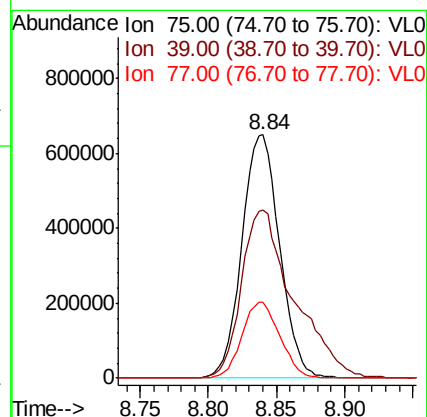
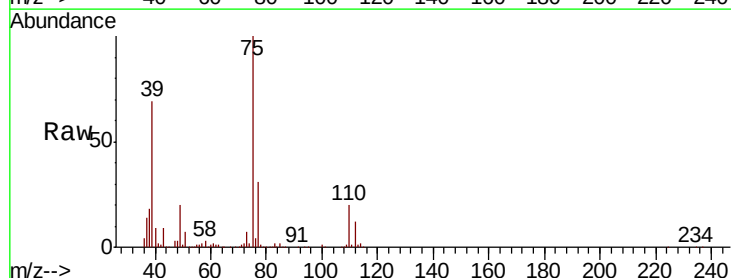
Tgt Ion: 75 Resp: 1249472

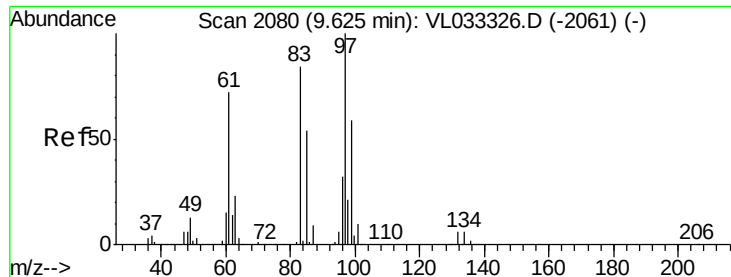
Ion Ratio Lower Upper

75 100

39 68.7 55.0 82.6

77 31.3 24.5 36.7





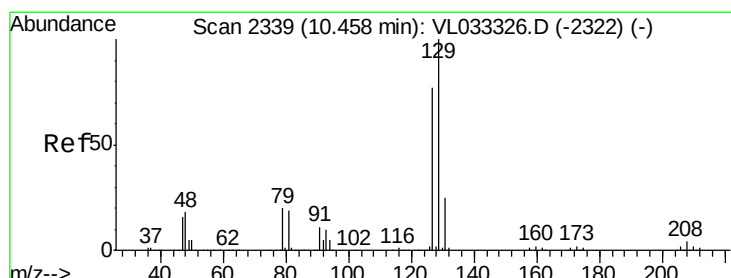
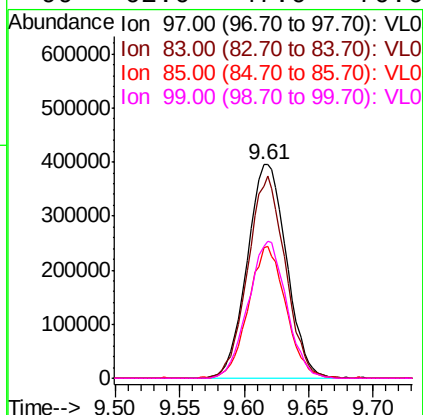
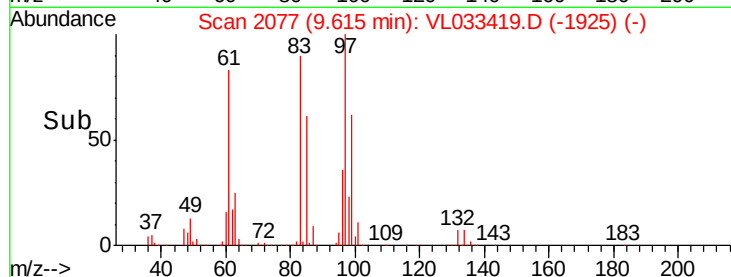
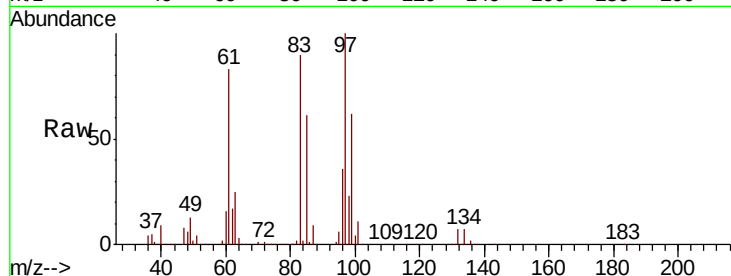
#47
1,1,2-Trichloroethane
Concen: 12.086 ppbv
RT: 9.61 min Scan# 2077
Delta R.T. -0.01 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
97	100		
83	89.8	67.4	101.0
85	61.2	43.0	64.4
99	62.0	47.0	70.6

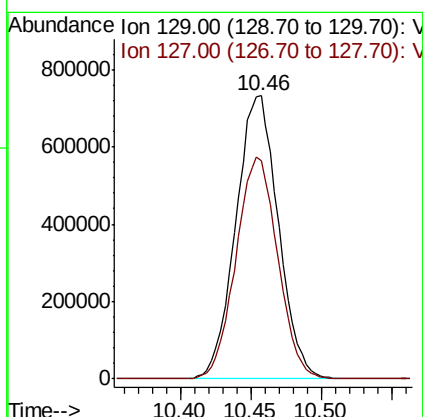
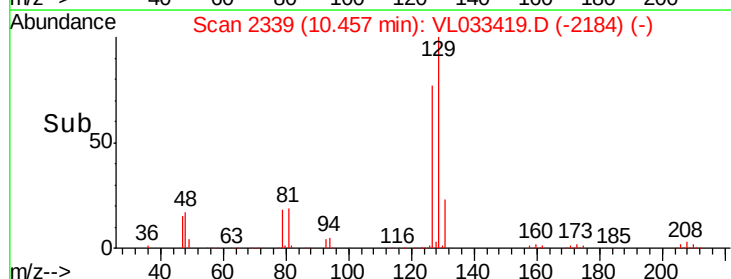
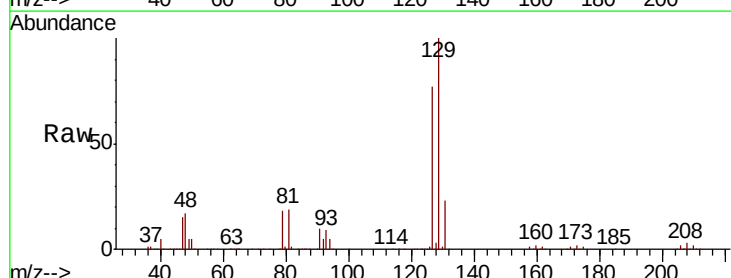
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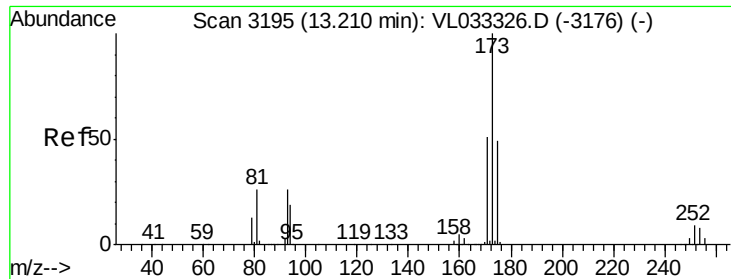
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#48
Dibromochloromethane
Concen: 13.208 ppbv
RT: 10.46 min Scan# 2339
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
129	100		
127	77.3	38.9	116.6





#49

Bromoform

Concen: 16.241 ppbv

RT: 13.20 min Scan# 3193

Delta R.T. -0.01 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1803131

Ion Ratio Lower Upper

173 100

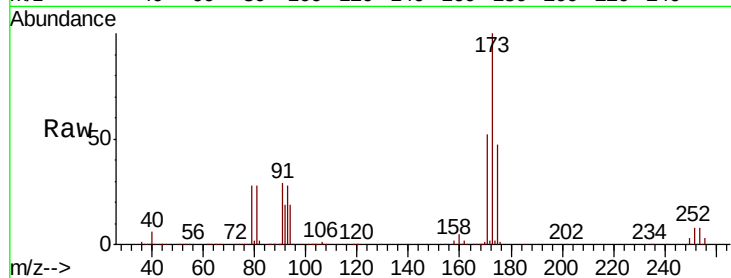
175 48.8 39.0 58.6

171 51.7 41.7 62.5

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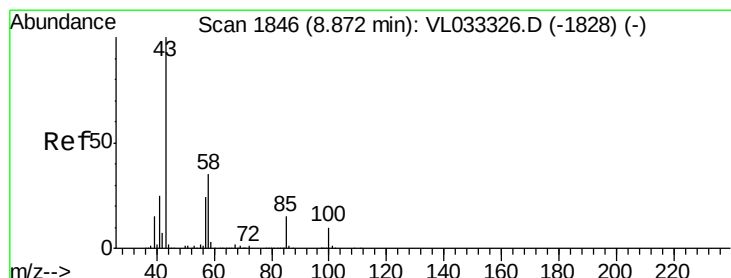
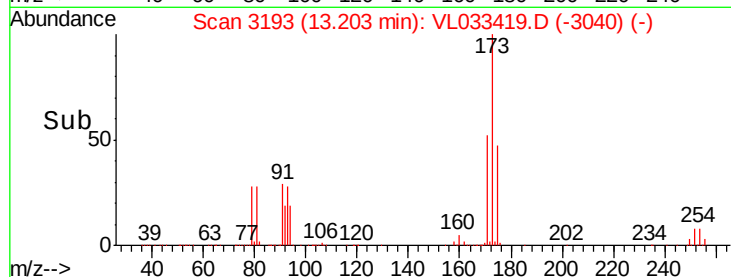
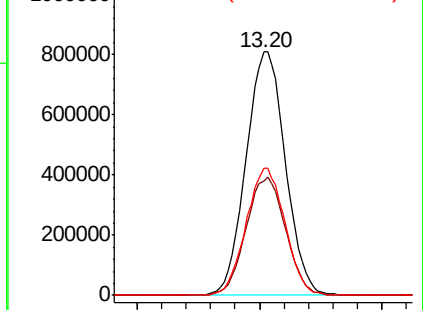
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 12.101 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. -0.00 min

Lab File: VL033419.D

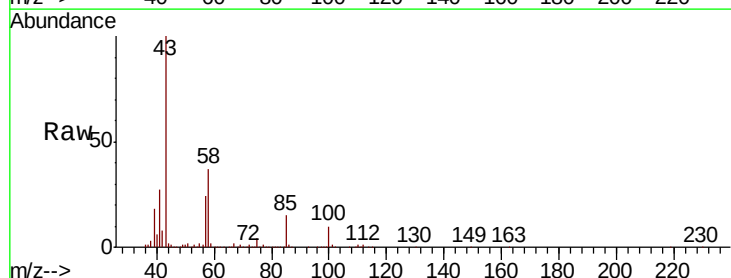
Acq: 21 Mar 2019 12:07

Tgt Ion: 43 Resp: 2115559

Ion Ratio Lower Upper

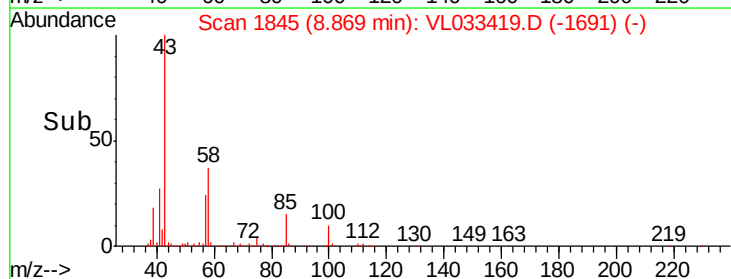
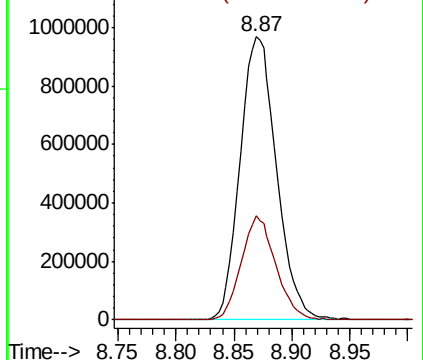
43 100

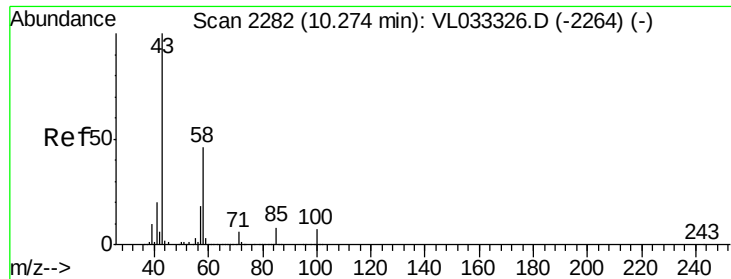
58 34.9 28.4 42.6



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





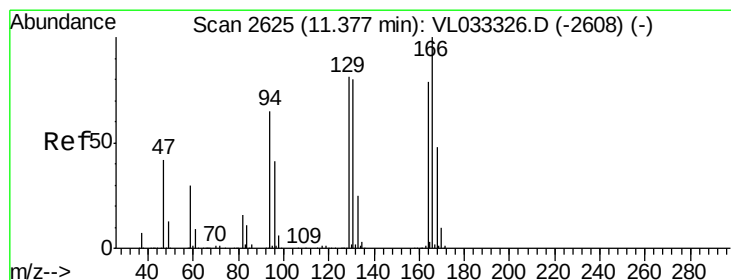
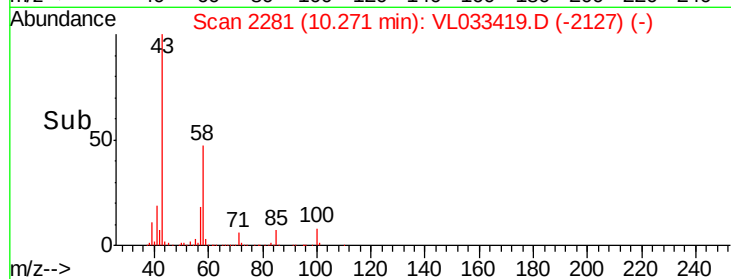
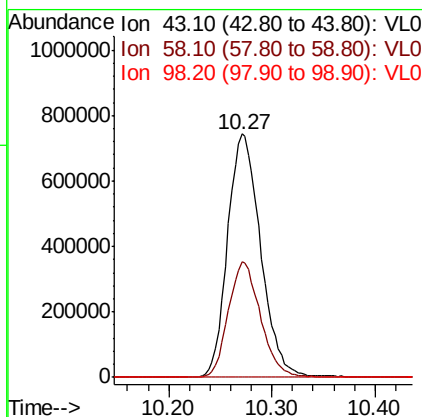
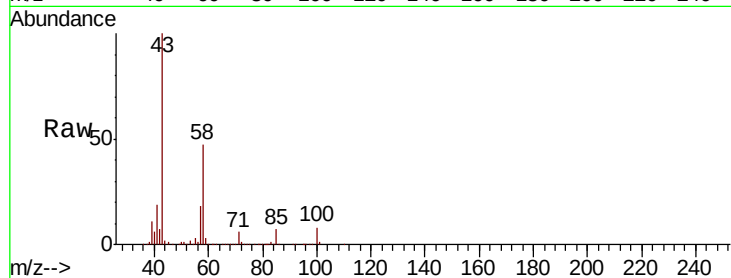
#51
2-Hexanone
Concen: 12.321 ppbv
RT: 10.27 min Scan# 2281
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	46.3	38.0	57.0
98	0.3	0.1	0.1#

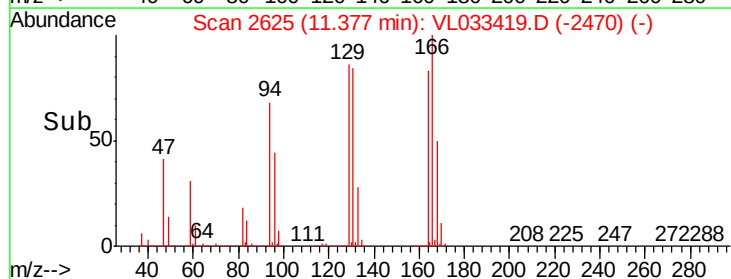
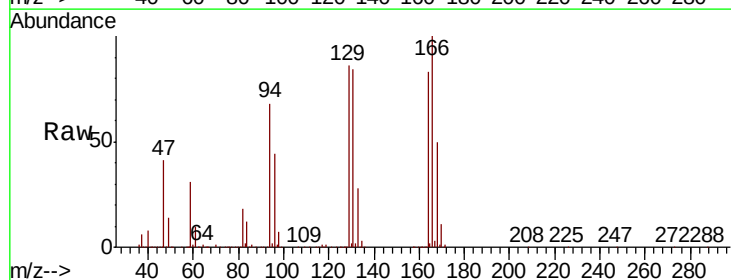
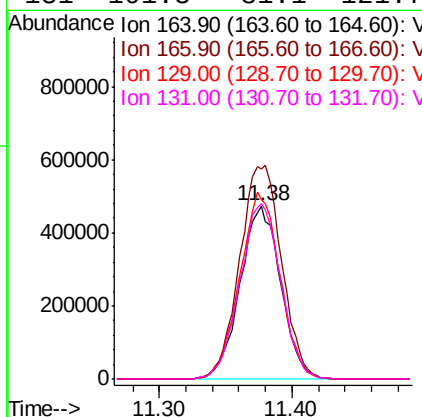
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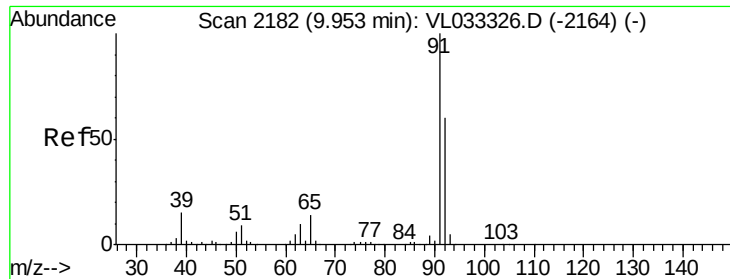
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#52
Tetrachloroethene
Concen: 14.269 ppbv
RT: 11.38 min Scan# 2625
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
164	100		
166	121.1	101.5	152.3
129	103.5	82.2	123.2
131	101.3	81.1	121.7





#53

Toluene

Concen: 12.392 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2374914

Ion Ratio Lower Upper

91 100

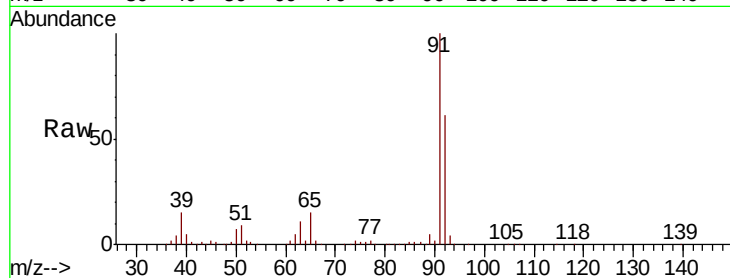
92 59.6 47.4 71.0

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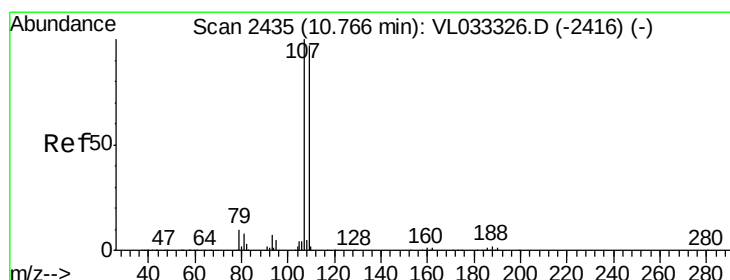
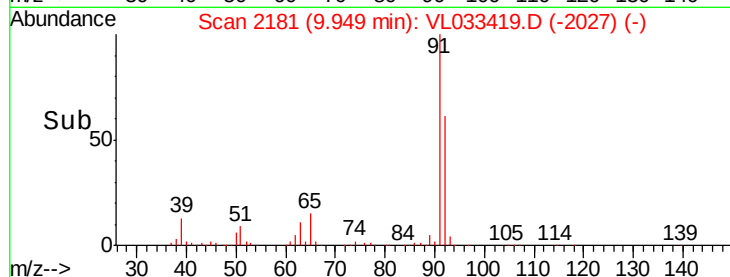
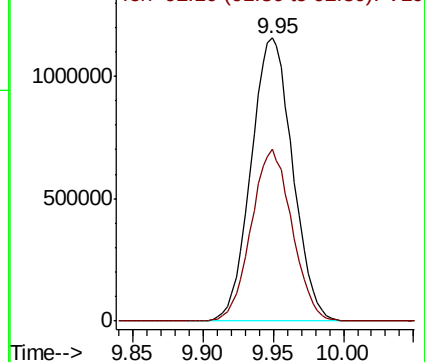
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 11.448 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. -0.00 min

Lab File: VL033419.D

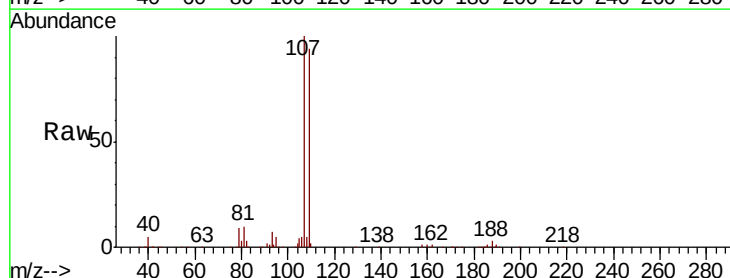
Acq: 21 Mar 2019 12:07

Tgt Ion:107 Resp: 1350595

Ion Ratio Lower Upper

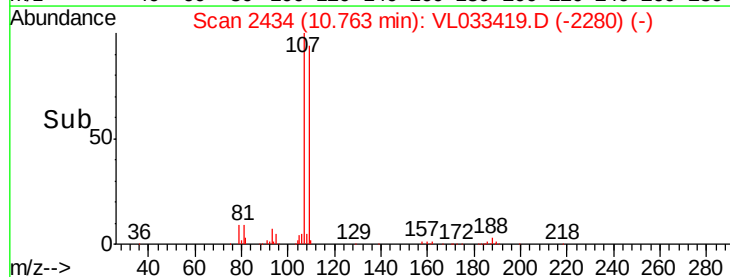
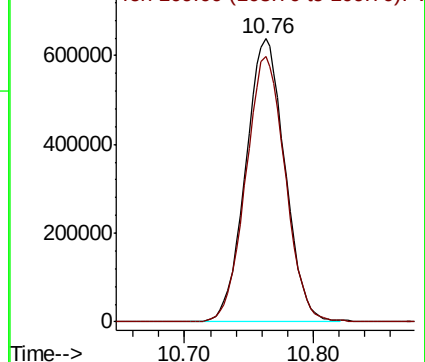
107 100

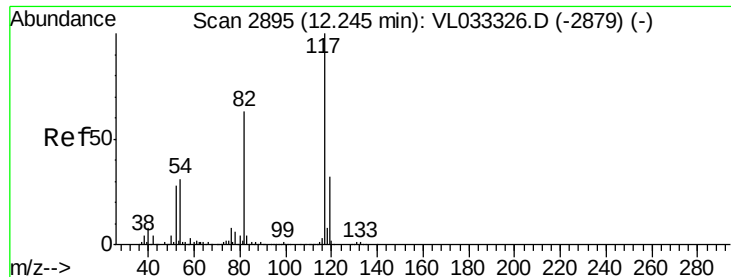
109 94.0 77.2 115.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





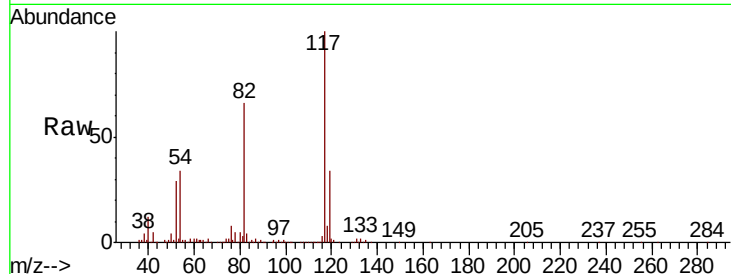
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

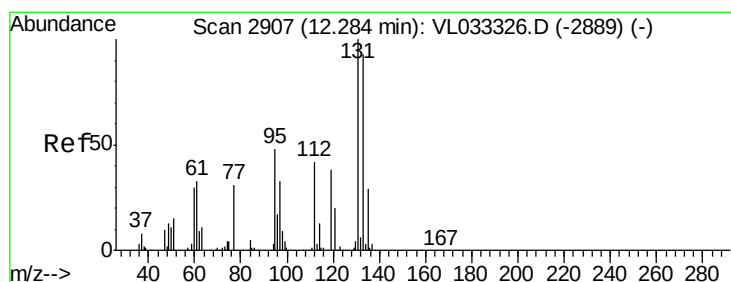
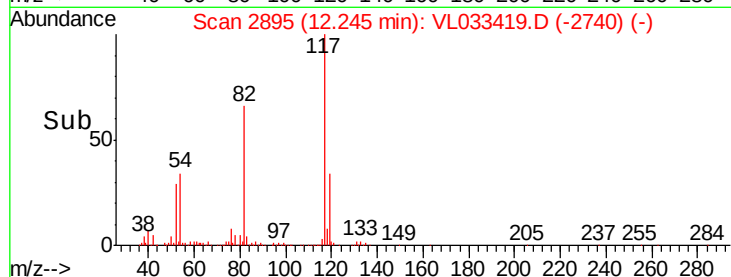
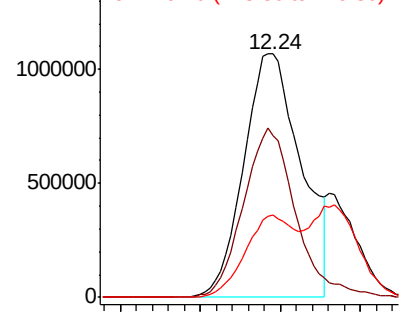
Tot Ion:117 Resp: 2658272
Ion Ratio Lower Upper
117 100
82 63.4 53.4 80.2
119 30.8 27.3 40.9

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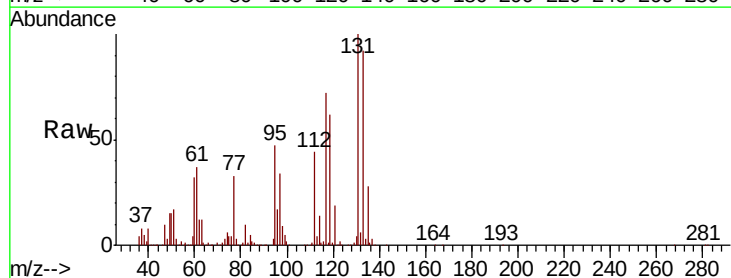


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

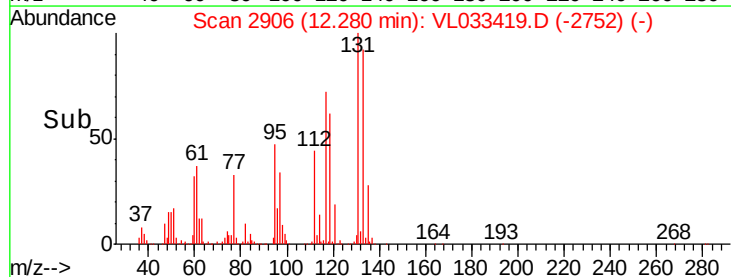
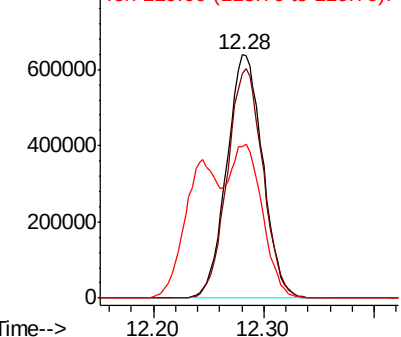


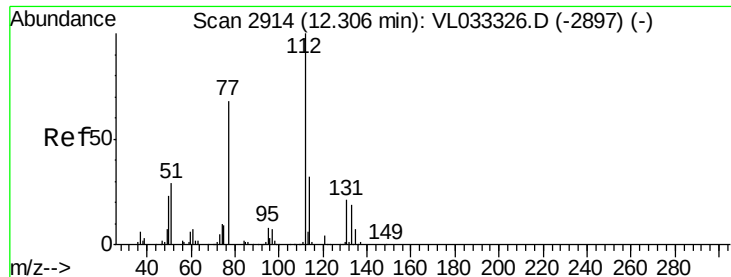
#56
1,1,1,2-Tetrachloroethane
Concen: 12.094 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion:131 Resp: 1438105
Ion Ratio Lower Upper
131 100
133 93.9 76.7 115.1
119 56.9 40.3 60.5



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 11.196 ppbv

RT: 12.31 min Scan# 2914

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 112 Resp: 2357126

Ion Ratio Lower Upper

112 100

77 70.5 55.8 83.6

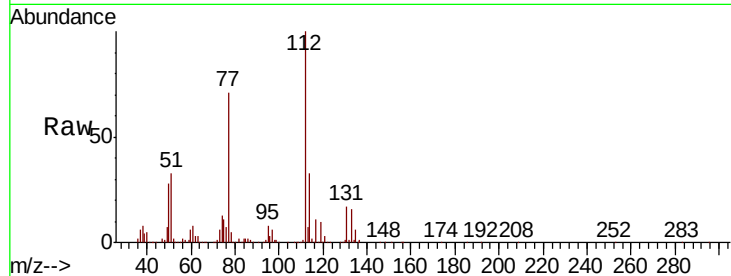
114 32.5 28.6 35.0

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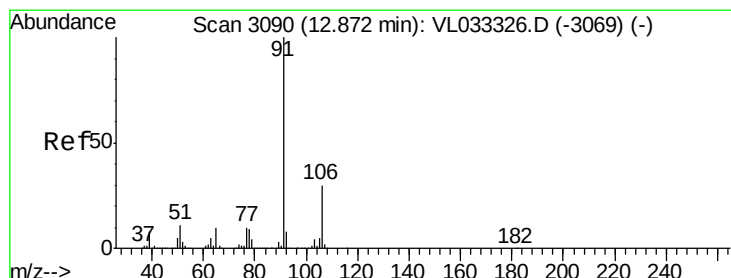
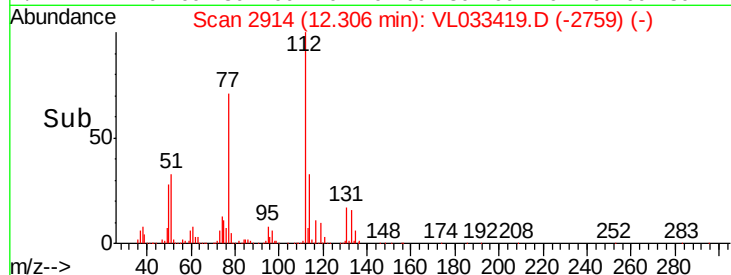
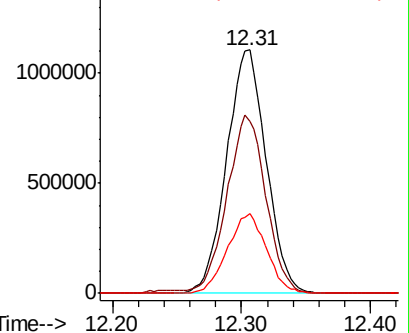
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 11.903 ppbv

RT: 12.87 min Scan# 3089

Delta R.T. -0.00 min

Lab File: VL033419.D

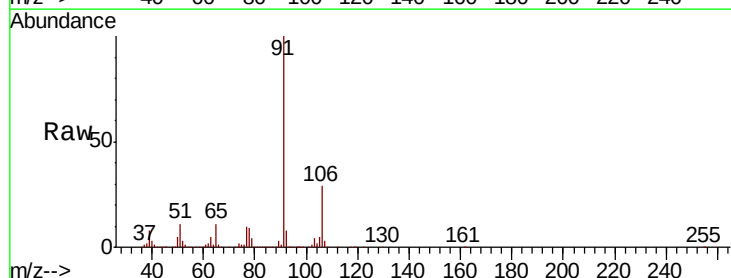
Acq: 21 Mar 2019 12:07

Tgt Ion: 91 Resp: 4475983

Ion Ratio Lower Upper

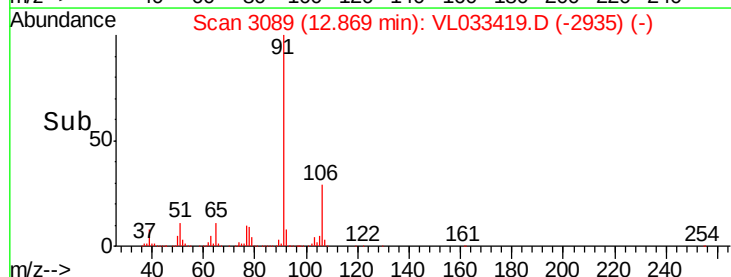
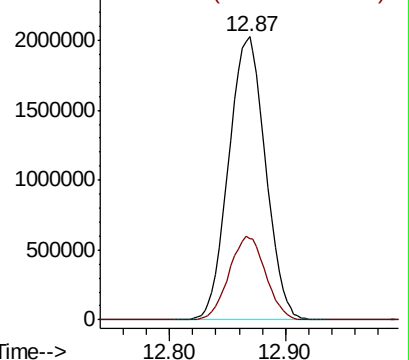
91 100

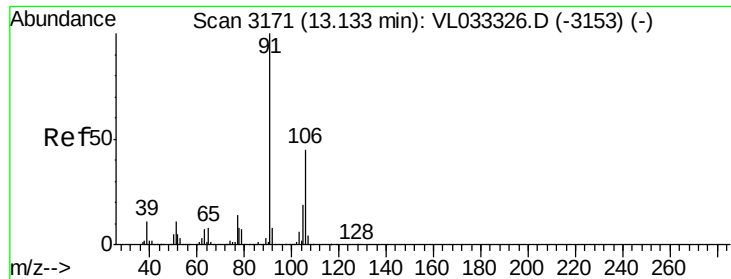
106 28.9 24.2 36.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





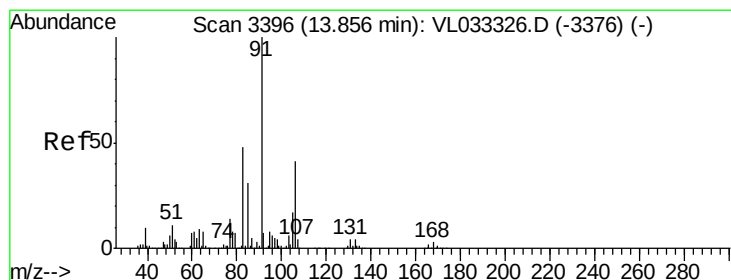
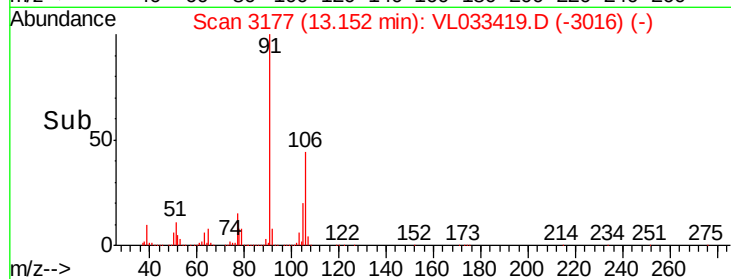
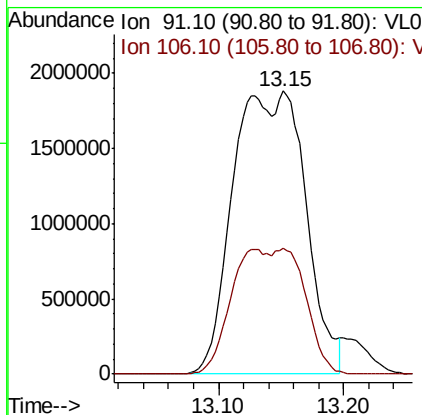
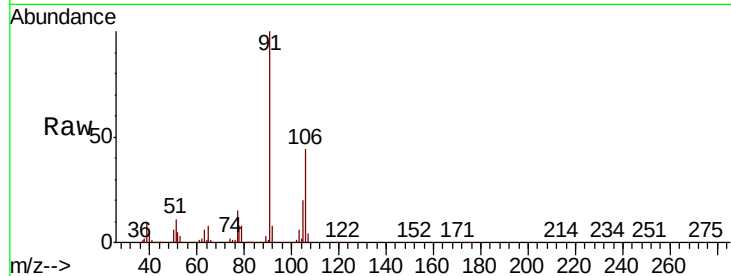
#59
m/p-Xylene
Concen: 23.434 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.02 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 7573171
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0

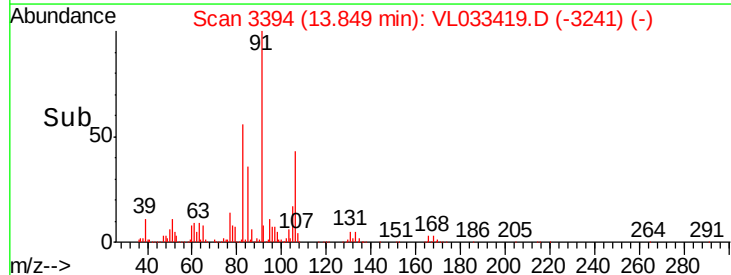
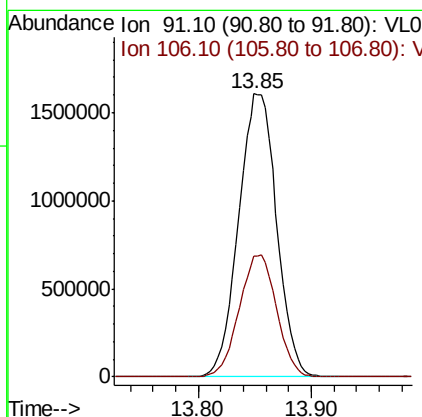
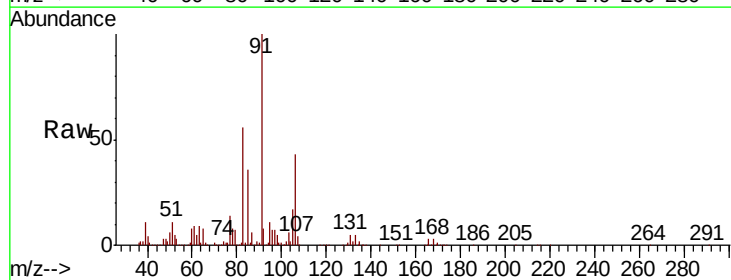
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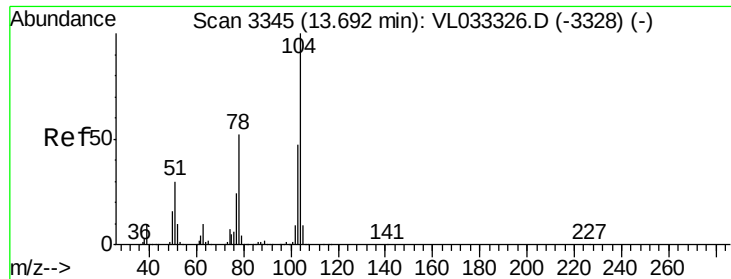
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#60
o-Xylene
Concen: 11.910 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion: 91 Resp: 3754905
Ion Ratio Lower Upper
91 100
106 42.4 21.3 63.9





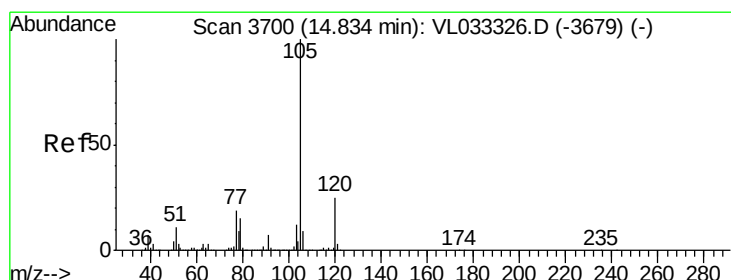
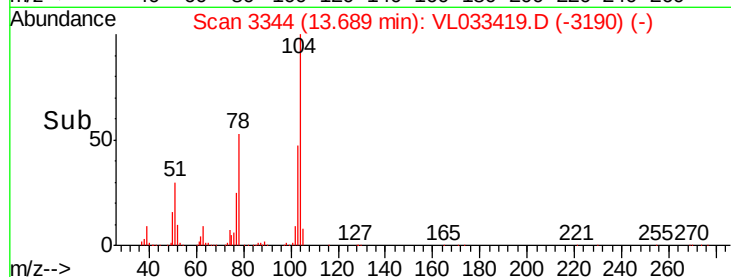
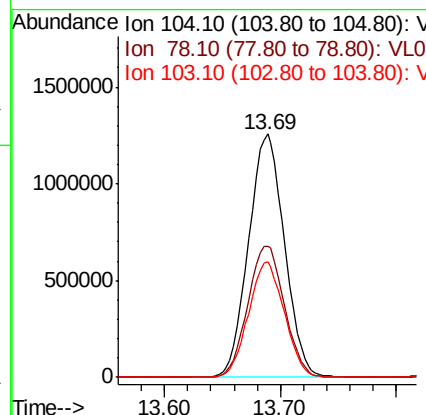
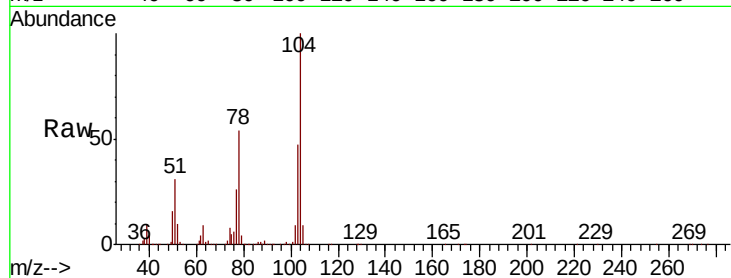
#61
Stvrene
Concen: 12.259 ppbv
RT: 13.69 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	55.1	42.7	64.1
103	47.5	38.0	57.0

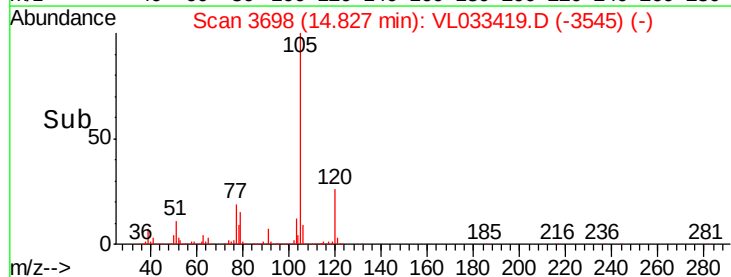
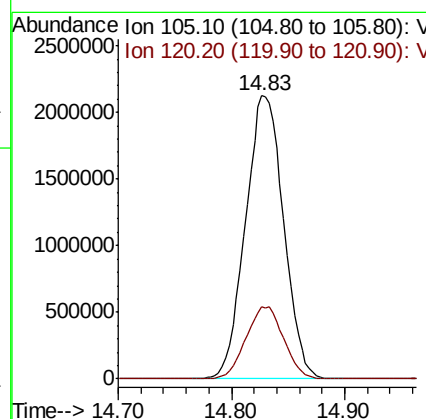
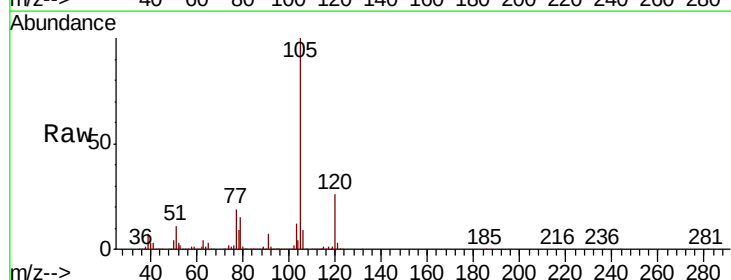
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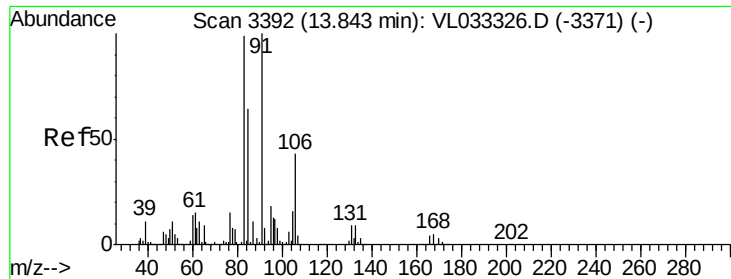
MMDadoda
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#62
Isopropylbenzene
Concen: 11.362 ppbv
RT: 14.83 min Scan# 3698
Delta R.T. -0.01 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.2	19.9	29.9





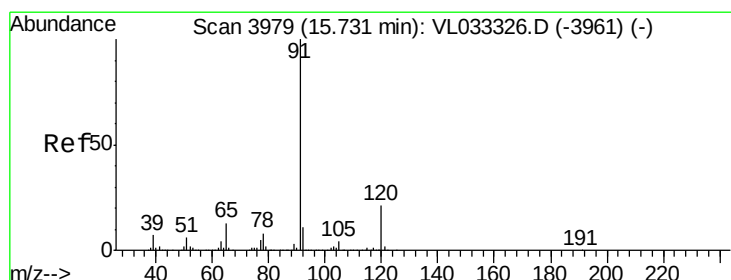
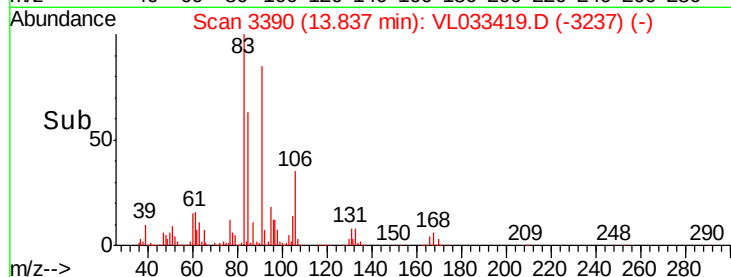
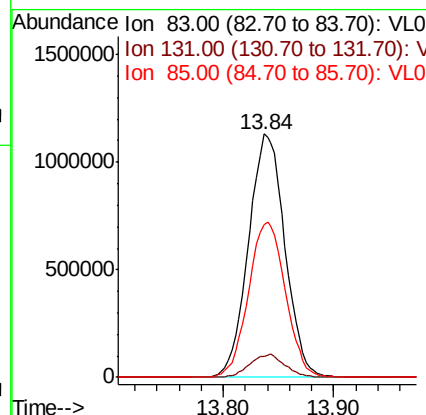
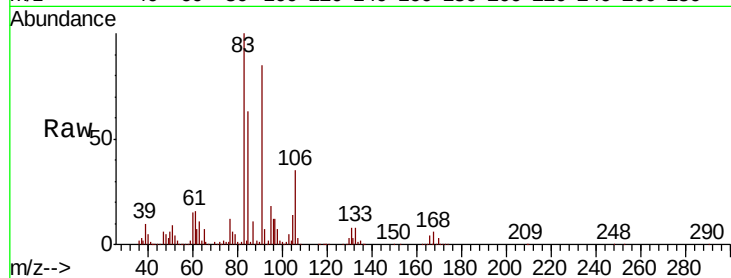
#63
 1,1,2,2-Tetrachloroethane
 Concen: 11.340 ppbv
 RT: 13.84 min Scan# 3390
 Delta R.T. -0.01 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	2584575
Ion	Ratio	Lower	Upper
83	100		
131	9.2	4.7	14.0
85	64.9	32.5	97.4

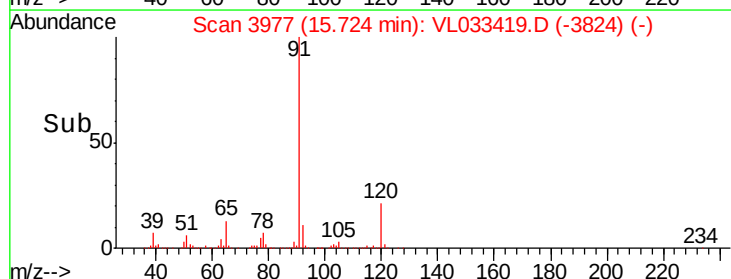
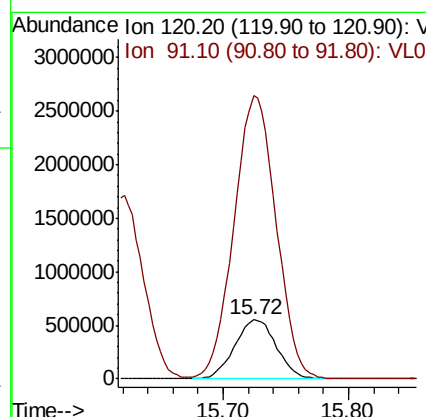
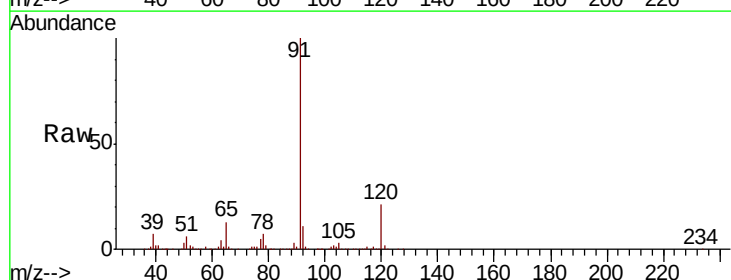
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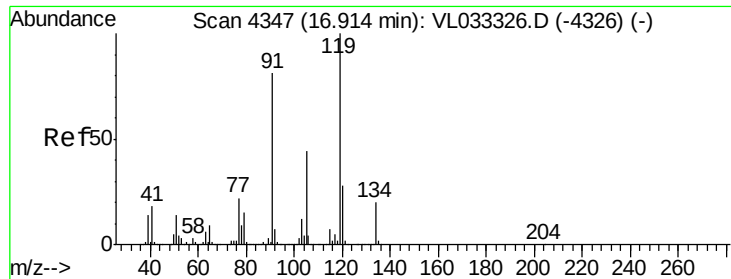
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#64
 n-propylbenzene
 Concen: 11.511 ppbv
 RT: 15.72 min Scan# 3977
 Delta R.T. -0.01 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion	120	Resp	1276686
Ion	Ratio	Lower	Upper
120	100		
91	484.0	389.8	584.6





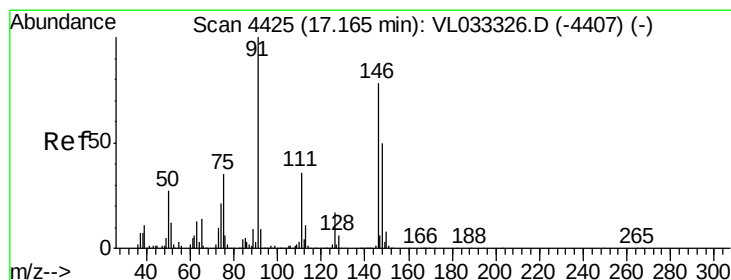
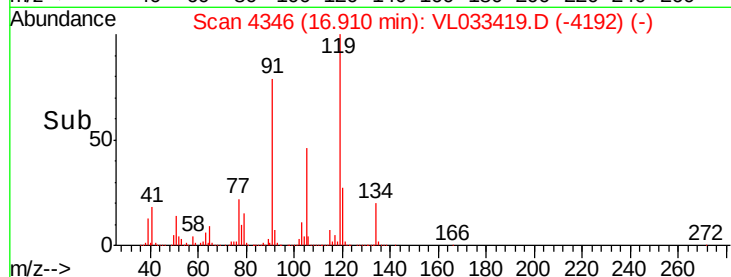
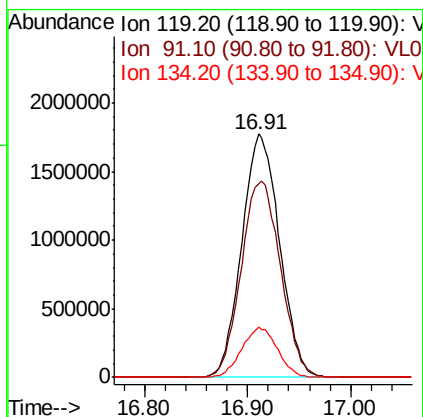
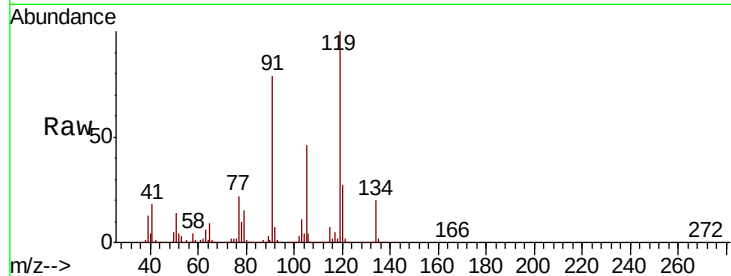
#65
tert-Butylbenzene
Concen: 11.450 ppbv
RT: 16.91 min Scan# 4346
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion:119 Resp: 4518276
Ion Ratio Lower Upper
119 100
91 84.1 67.2 100.8
134 19.4 15.4 23.2

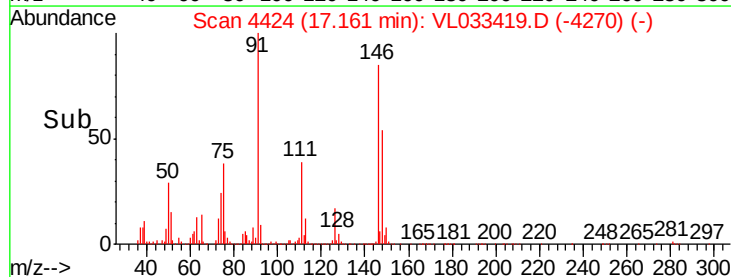
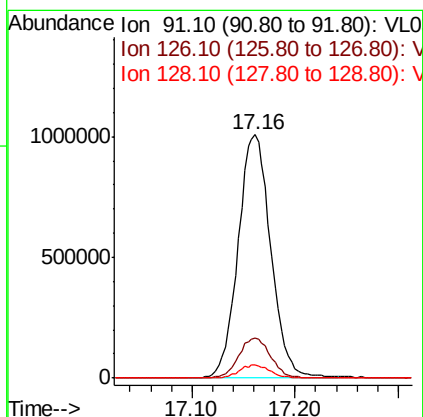
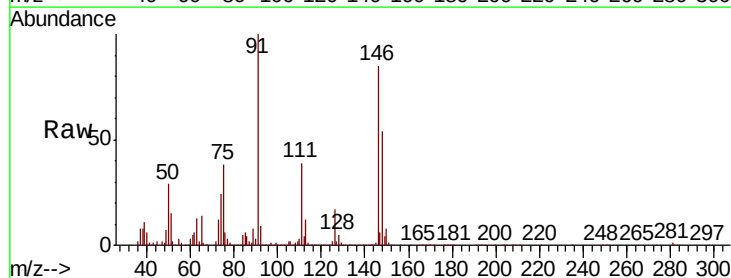
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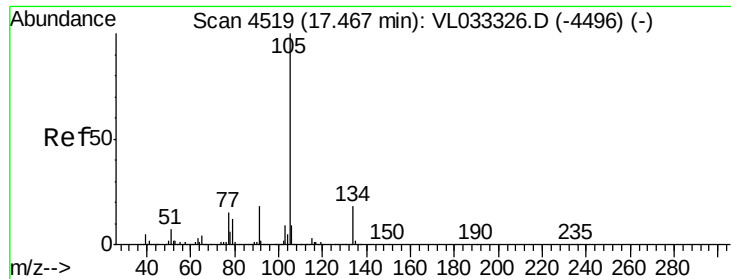
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#66
Benzyl Chloride
Concen: 13.600 ppbv
RT: 17.16 min Scan# 4424
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion: 91 Resp: 2217783
Ion Ratio Lower Upper
91 100
126 16.2 13.2 19.8
128 5.2 4.2 6.4





#67

sec-Butylbenzene

Concen: 11.552 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 6459690

Ion Ratio Lower Upper

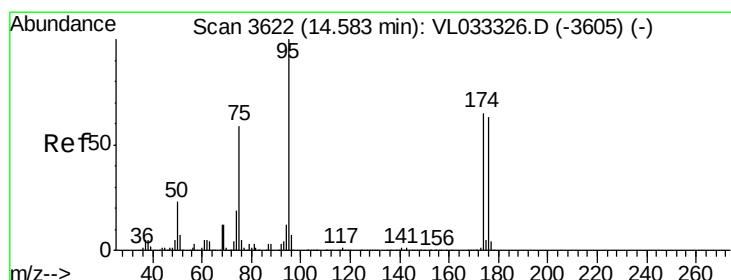
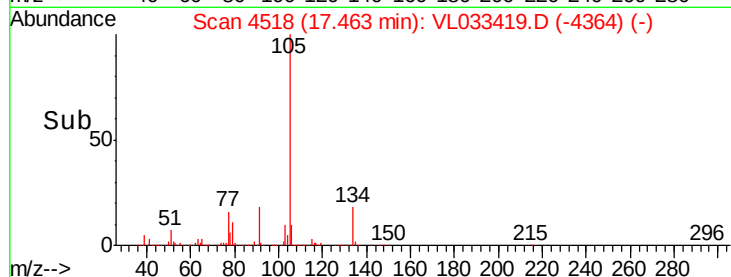
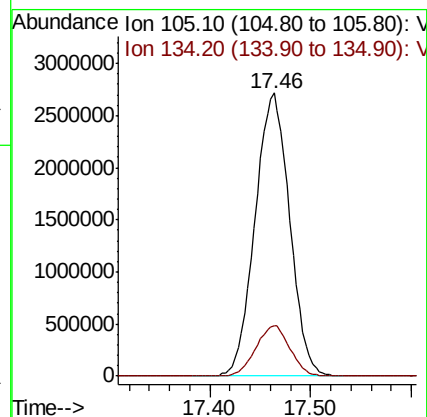
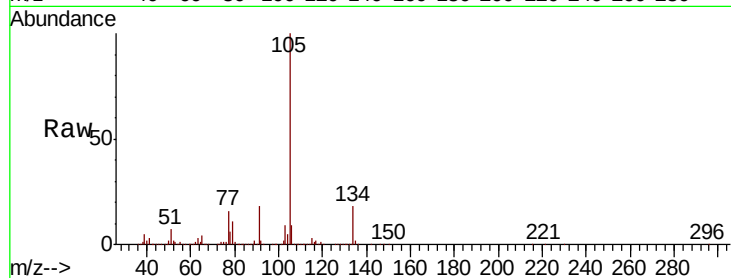
105 100

134 17.6 14.2 21.4

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.335 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

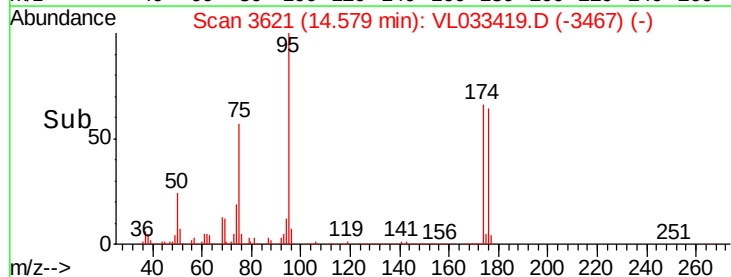
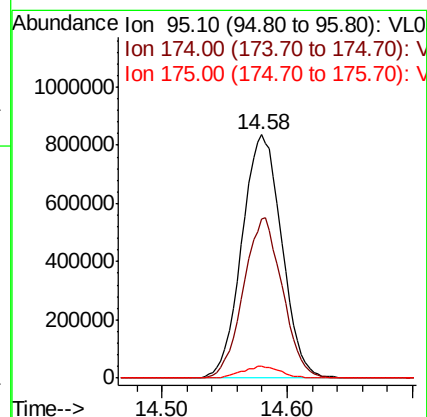
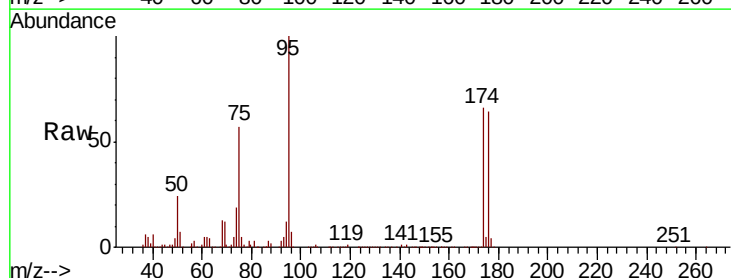
Tgt Ion: 95 Resp: 1838696

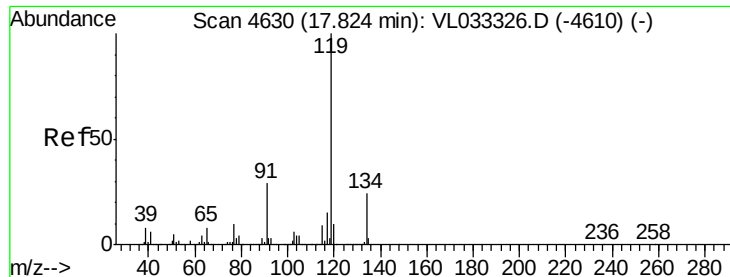
Ion Ratio Lower Upper

95 100

174 64.6 51.5 77.3

175 4.8 3.8 5.6





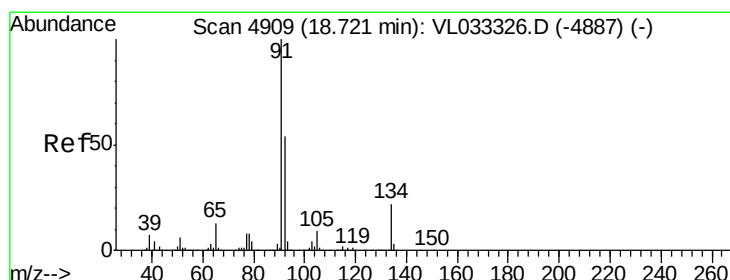
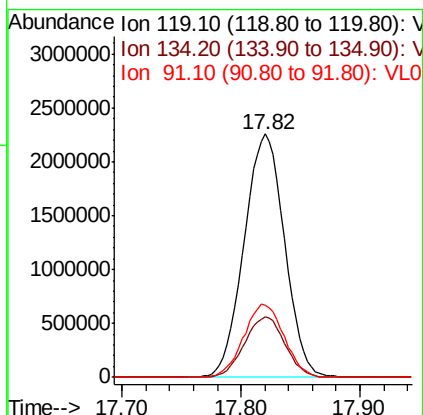
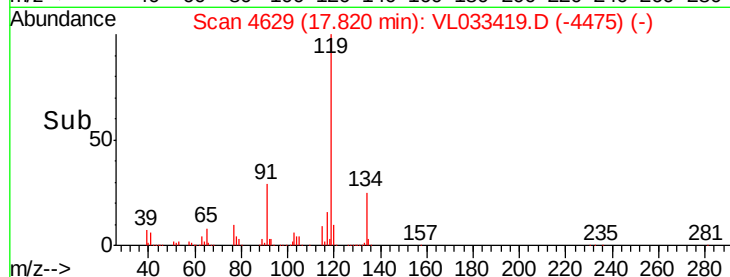
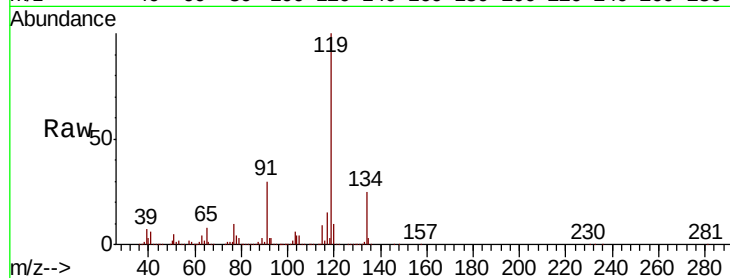
#69
 p-Isopropyltoluene
 Concen: 11.618 ppbv
 RT: 17.82 min Scan# 4629
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	24.9	19.8	29.6
91	30.2	23.4	35.2

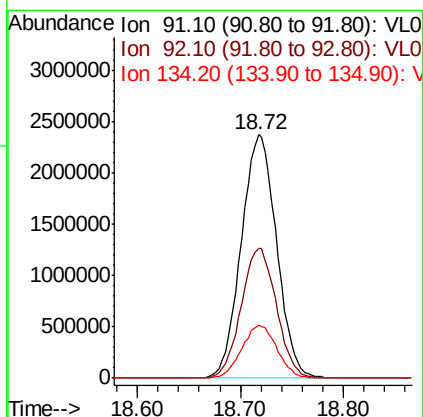
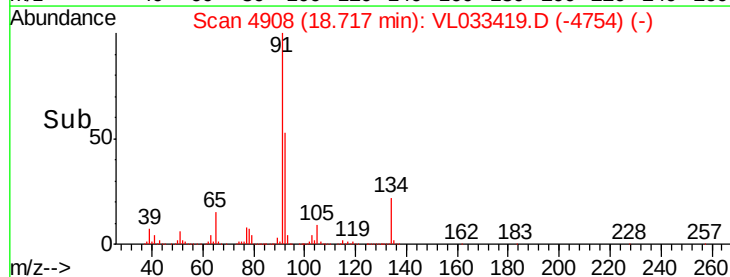
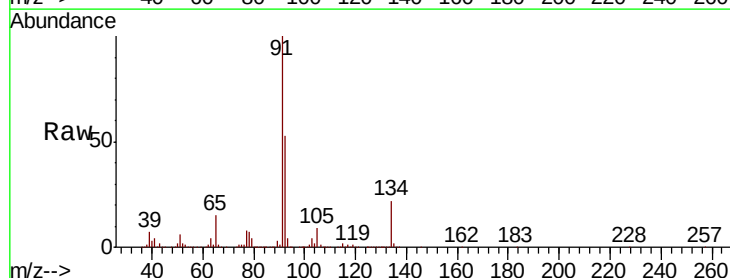
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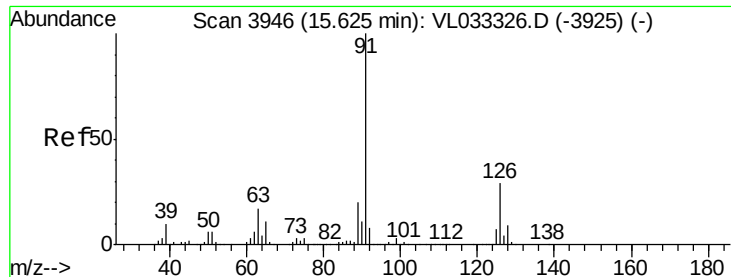
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#70
 n-Butylbenzene
 Concen: 11.593 ppbv
 RT: 18.72 min Scan# 4908
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.2	42.8	64.2
134	21.6	17.4	26.0





#71

2-Chlorotoluene

Concen: 11.311 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 3859337

Ion Ratio Lower Upper

91 100

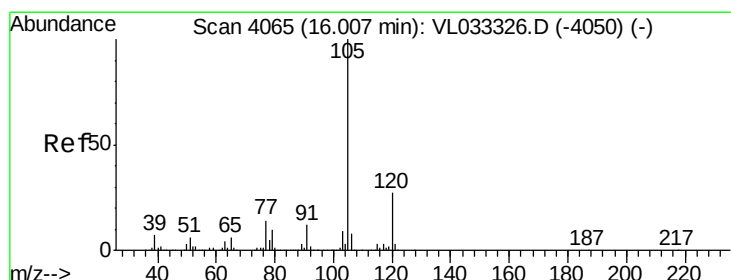
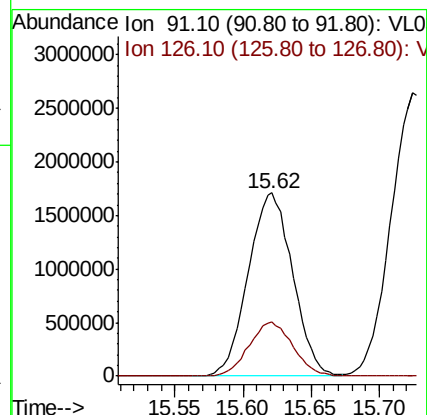
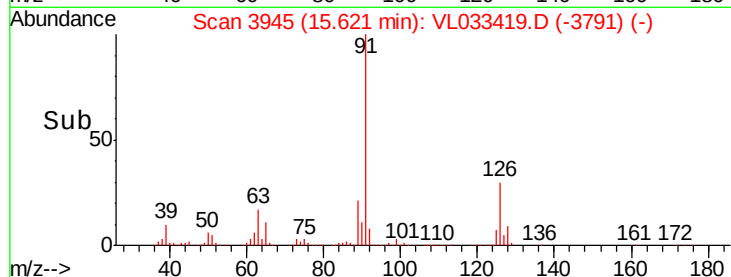
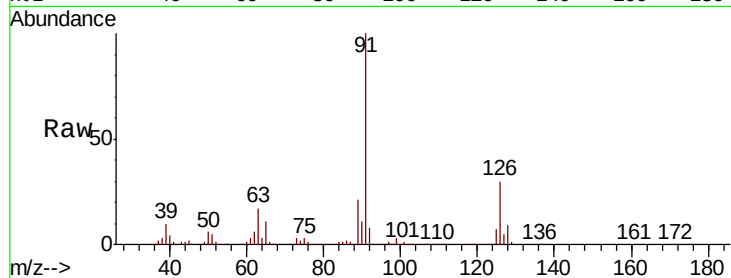
126 29.1 11.6 46.6

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#72

4-Ethyltoluene

Concen: 11.545 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Tgt Ion: 105 Resp: 4133598

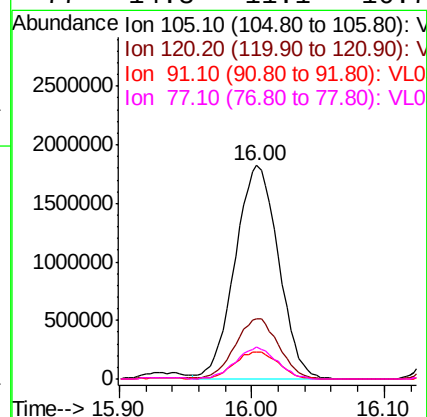
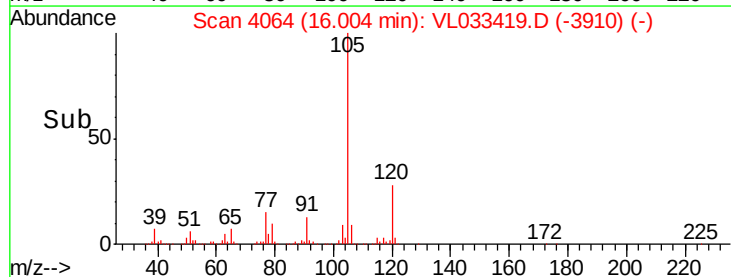
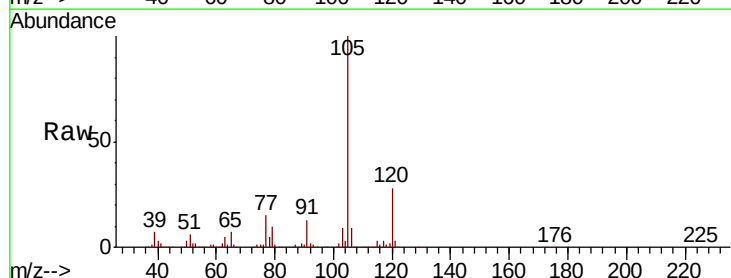
Ion Ratio Lower Upper

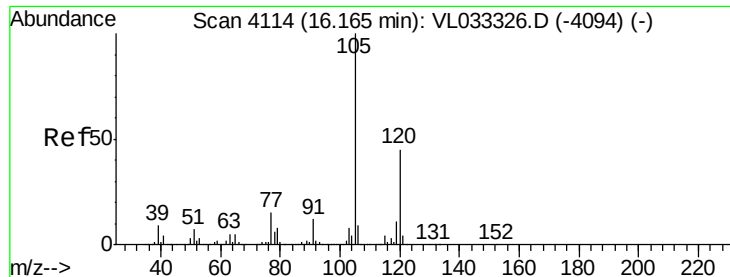
105 100

120 28.5 22.9 34.3

91 13.0 10.2 15.2

77 14.3 11.1 16.7





#73

1,3,5-Trimethylbenzene

Concen: 11.431 ppbv

RT: 16.16 min Scan# 4113

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 3987128

Ion Ratio Lower Upper

105 100

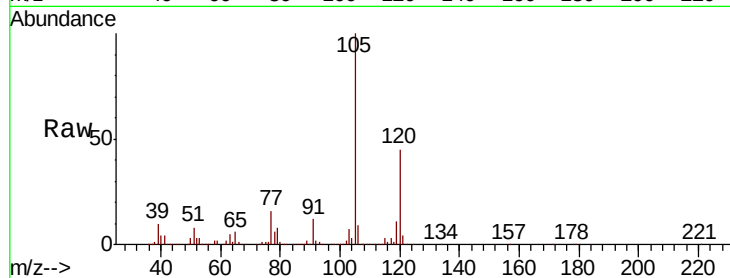
120 44.7 36.2 54.4

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

2000000

1500000

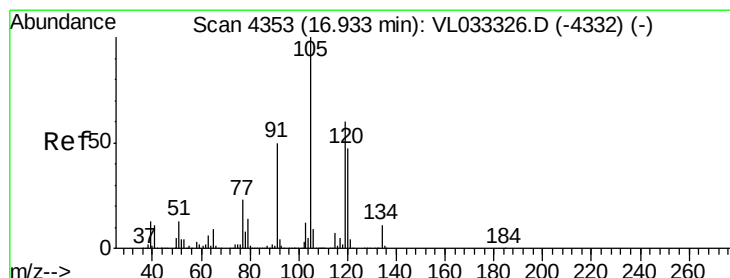
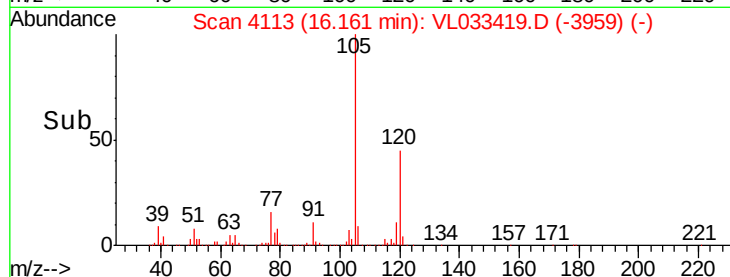
1000000

500000

0

16.10 16.16 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 11.229 ppbv

RT: 16.93 min Scan# 4352

Delta R.T. -0.00 min

Lab File: VL033419.D

Acq: 21 Mar 2019 12:07

Tgt Ion:105 Resp: 4147995

Ion Ratio Lower Upper

105 100

120 46.1 37.4 56.2

91 51.6 41.0 61.4

77 23.1 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

2500000

2000000

1500000

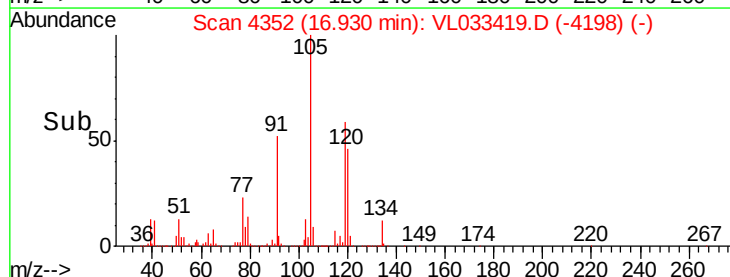
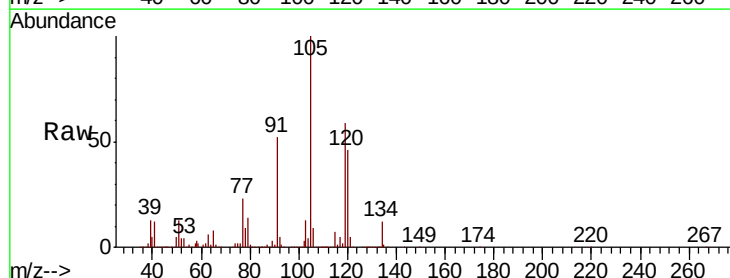
1000000

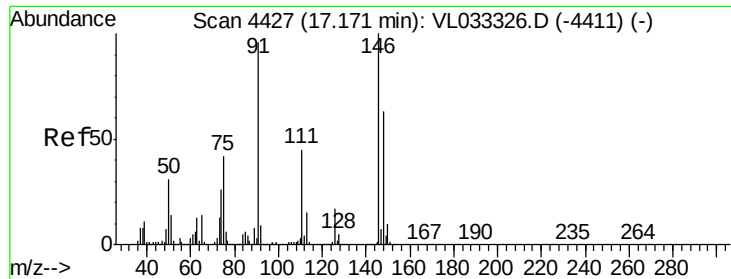
500000

0

16.90 16.93 17.00

Time-->





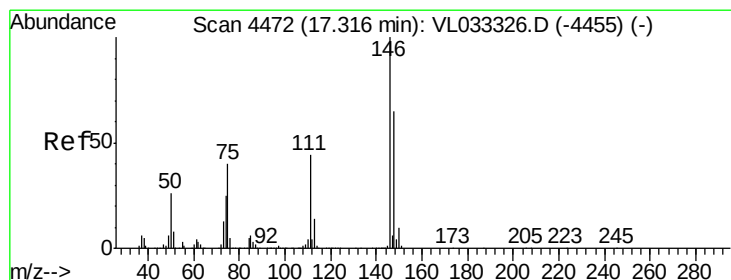
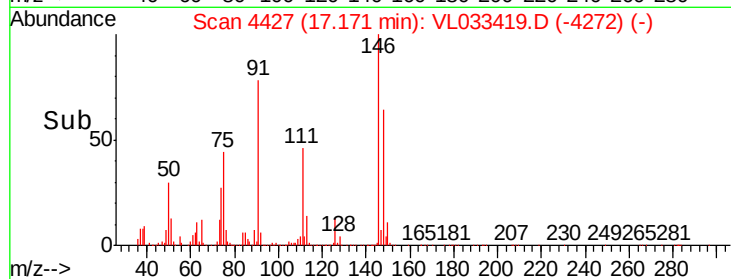
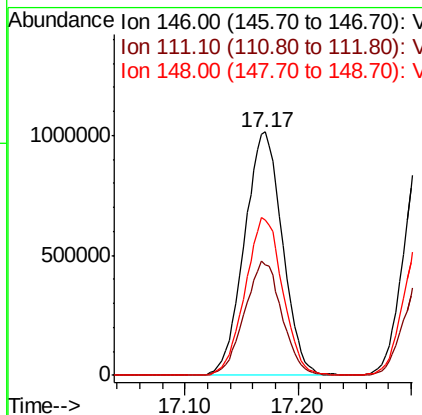
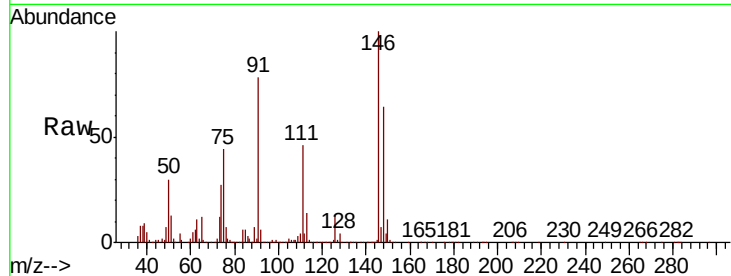
#75
 1,3-Dichlorobenzene
 Concen: 10.892 ppbv
 RT: 17.17 min Scan# 4427
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.0	22.8	68.3
148	64.0	31.9	95.7

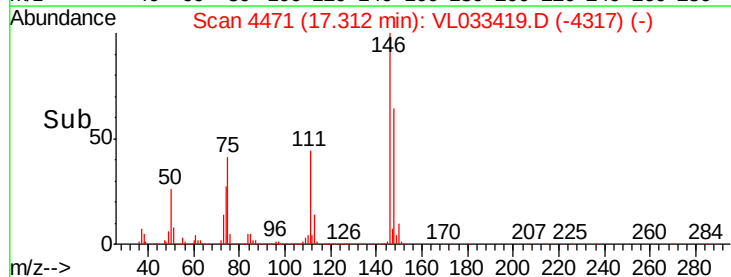
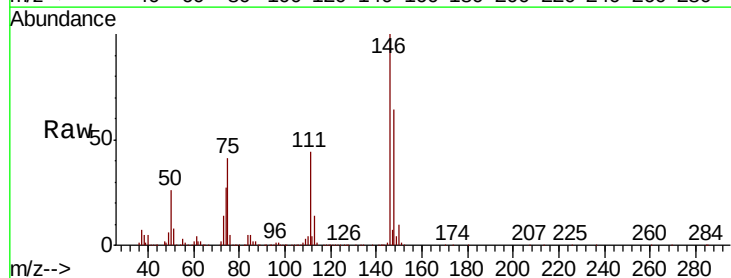
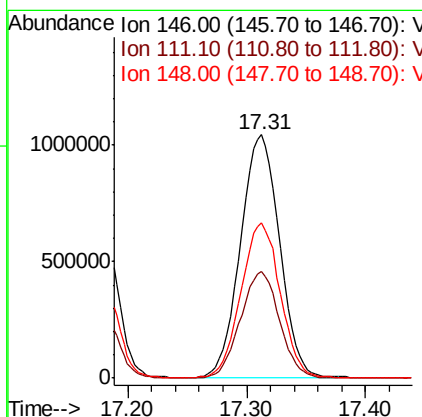
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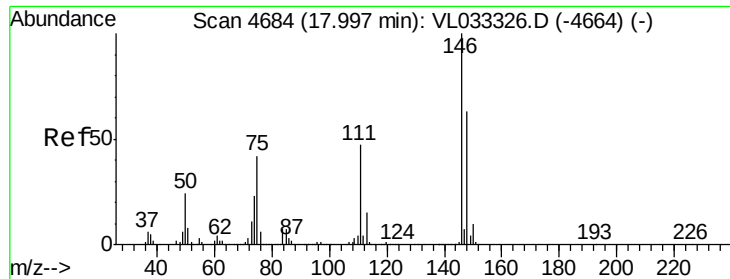
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#76
 1,4-Dichlorobenzene
 Concen: 11.237 ppbv
 RT: 17.31 min Scan# 4471
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	21.9	65.7
148	64.5	32.1	96.5





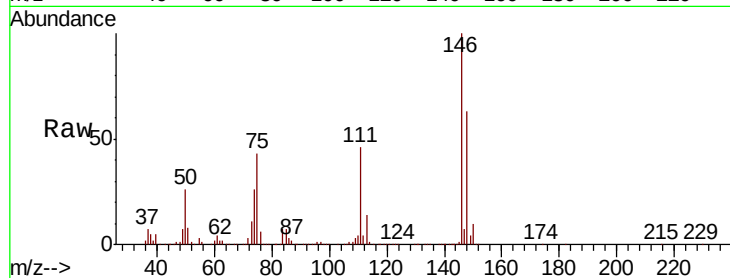
#77
 1,2-Dichlorobenzene
 Concen: 11.345 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. -0.01 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.2	23.5	70.6
148	63.8	31.9	95.9

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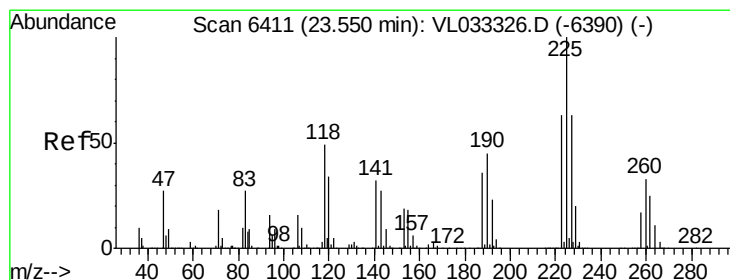
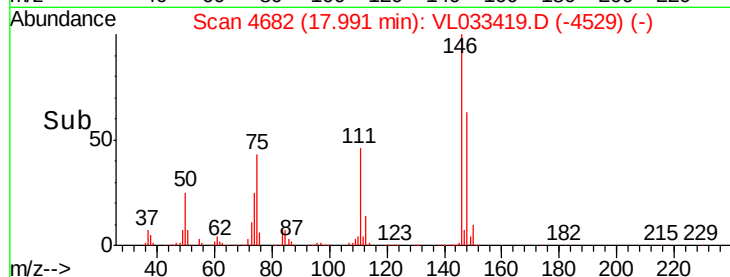
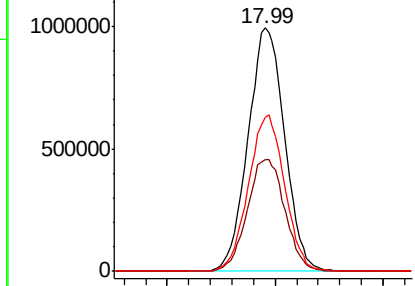


Abundance

Ion 146.00 (145.70 to 146.70): V

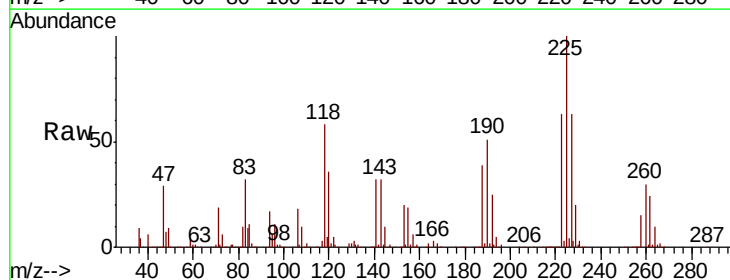
Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#78
 Hexachloro-1,3-Butadiene
 Concen: 10.564 ppbv
 RT: 23.55 min Scan# 6410
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	50.4	75.6
227	64.2	50.5	75.7

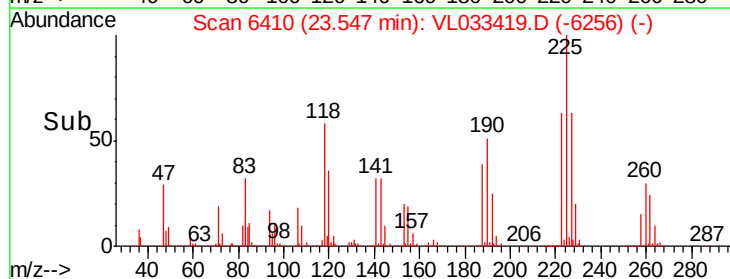
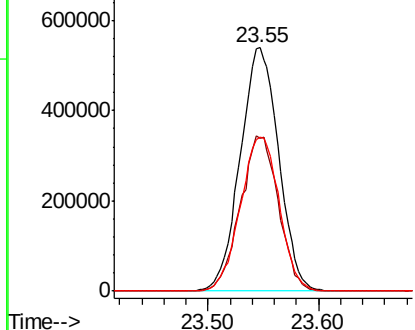


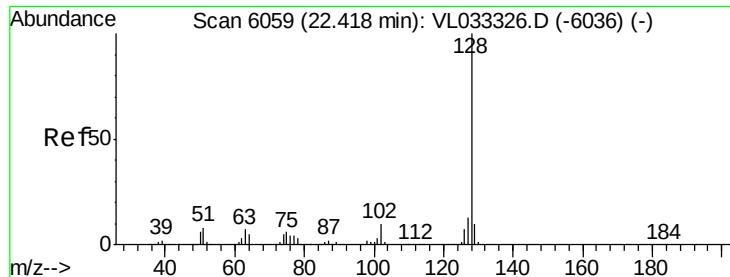
Abundance

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





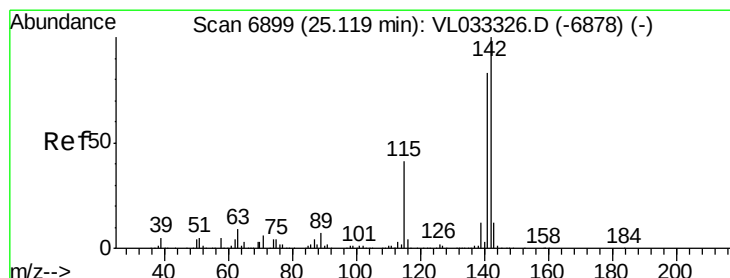
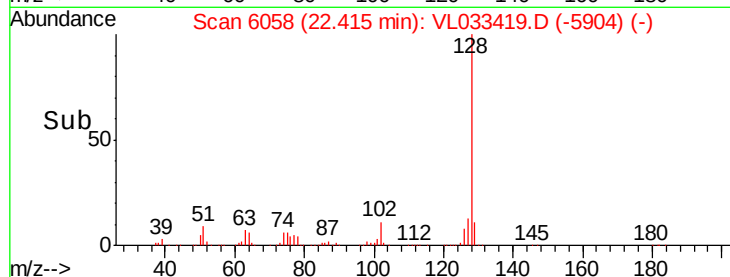
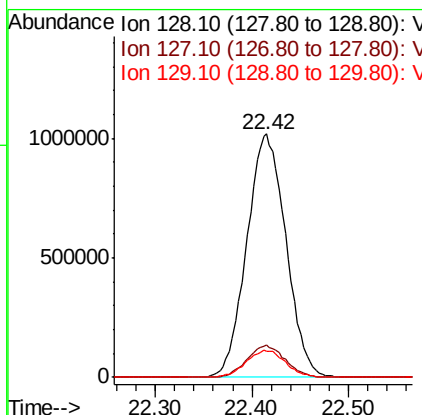
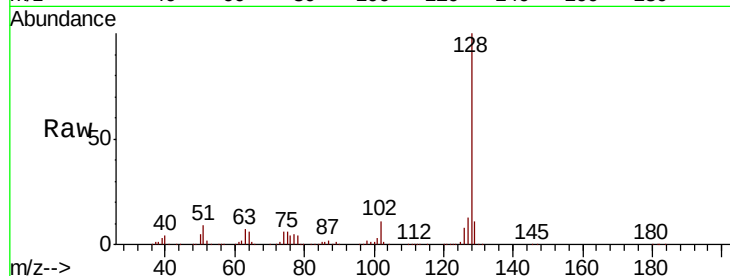
#79
Naphthalene
Concen: 8.037 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.1	15.1
129	10.9	8.2	12.2

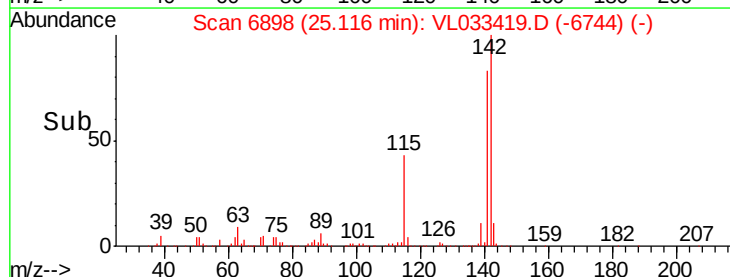
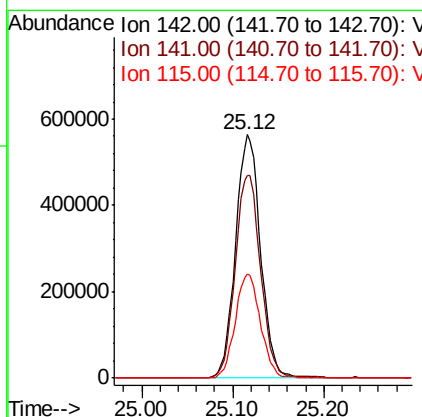
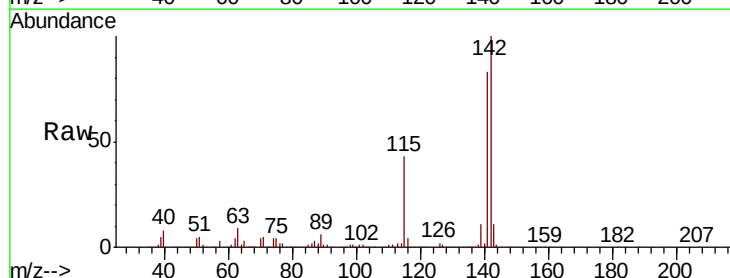
Manual Integrations
APPROVED

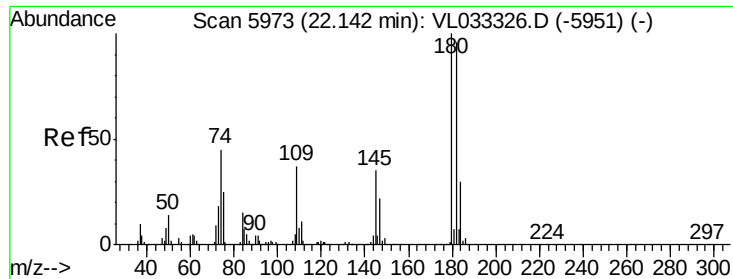
MMDadoda
3/25/2019 8:26:44 AM



#80
Naphthalene, 2-methyl-
Concen: 6.380 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033419.D
Acq: 21 Mar 2019 12:07

Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.1	67.1	100.7
115	43.4	33.8	50.6





#81
 1,2,4-Trichlorobenzene
 Concen: 8.249 ppbv
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033419.D
 Acq: 21 Mar 2019 12:07

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.1	114.1
184	30.8	24.6	37.0

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 8:26:44 AM

