

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033962.D
 Acq On : 25 Jun 2019 8:31
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 8:16:00 AM

Quant Time: Jun 25 09:18:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	852120	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	2004674	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	2178902m	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.55	95	1713615	9.57	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	1282181	9.273	ppbv	98
3) Chlorodifluoromethane	3.00	51	975945	9.729	ppbv	99
4) Chloromethane	3.16	50	554398	9.689	ppbv	99
5) Vinyl Chloride	3.28	62	574820	10.827	ppbv	100
6) Bromomethane	3.50	94	369108	10.465	ppbv	94
7) Chloroethane	3.59	64	213829	10.184	ppbv	97
8) Dichlorotetrafluoroethane	3.21	85	1516327	10.261	ppbv	98
9) Propene	3.03	41	397224	10.583	ppbv	99
10) Heptane	8.22	43	1091266	11.502	ppbv	100
11) Trichlorofluoromethane	3.99	101	1911355	10.713	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.53	101	1287279	10.676	ppbv	100
13) Ethanol	3.64	45	93959	7.694	ppbv	98
14) Bromoethene	3.77	108	495271	11.023	ppbv	99
15) Acetone	3.89	43	1211344	9.747	ppbv	100
16) 1,3-Butadiene	3.35	39	506180	10.701	ppbv	100
17) tert-Butyl alcohol	4.34	59	1168606	12.029	ppbv	100
18) 1,1-Dichloroethene	4.34	96	551848	10.835	ppbv	97
19) Isopropyl Alcohol	4.01	45	788652	11.108	ppbv	99
20) Methylene Chloride	4.39	84	477926	9.861	ppbv	97
21) Allyl Chloride	4.46	41	811358	11.493	ppbv	98
22) trans-1,2-Dichloroethene	4.95	96	578420	10.774	ppbv	94
23) Vinyl Acetate	5.14	43	1615698	11.185	ppbv	99
24) 1,1-Dichloroethane	5.07	63	1167730	10.393	ppbv	99
25) Ethyl Acetate	5.75	43	1991745	10.524	ppbv	100
26) Hexane	5.76	57	880737	10.221	ppbv	99
27) Carbon Disulfide	4.60	76	1392774	11.633	ppbv	100
28) Methyl tert-Butyl Ether	5.09	73	1601755	12.292	ppbv	100
29) Chloroform	5.83	83	1542477	10.451	ppbv	96
30) Cyclohexane	7.23	84	716905	11.774	ppbv	99
31) cis-1,2-Dichloroethene	5.62	61	877370	11.611	ppbv	95
32) 1,1,1-Trichloroethane	6.60	97	1619919	11.378	ppbv	99
34) 2-Butanone	5.31	43	1273495	11.261	ppbv	99
35) Carbon Tetrachloride	7.11	117	1717754	11.091	ppbv	98
36) Benzene	6.98	78	1744062	11.389	ppbv	98
37) 1,2-Dichloroethane	6.39	62	1171693	10.346	ppbv	99
38) Trichloroethene	7.94	130	760510	12.755	ppbv	98
39) 1,2-Dichloropropane	7.71	63	655475	11.091	ppbv	95
40) 1,4-Dioxane	7.93	88	259436	10.763	ppbv	76
41) Tetrahydrofuran	6.13	42	672879	11.722	ppbv	99
42) Bromodichloromethane	7.89	83	1654688	10.933	ppbv	98
43) Methyl Methacrylate	8.11	69	701976	12.257	ppbv	99

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 VSTDCCC010EC

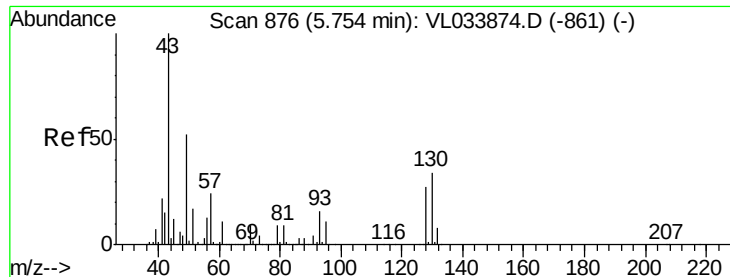
Manual Integrations
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 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.97	57	3011144	11.057	ppbv	99
45) t-1,3-Dichloropropene	9.39	75	983079	13.082	ppbv	100
46) cis-1,3-Dichloropropene	8.81	75	1119239	13.000	ppbv	98
47) 1,1,2-Trichloroethane	9.59	97	763318	10.834	ppbv	98
48) Dibromochloromethane	10.43	129	1436284	11.343	ppbv	99
49) Bromoform	13.17	173	1322870	11.835	ppbv	100
50) 4-Methyl-2-Pentanone	8.85	43	1945367	11.536	ppbv	100
51) 2-Hexanone	10.25	43	1570138	11.923	ppbv #	100
52) Tetrachloroethene	11.34	164	700225	12.995	ppbv	92
53) Toluene	9.92	91	2092664	12.349	ppbv	99
54) 1,2-Dibromoethane	10.73	107	1204565	11.342	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.25	131	988951	10.390	ppbv #	93
57) Chlorobenzene	12.27	112	1679579	10.292	ppbv	98
58) Ethyl Benzene	12.84	91	2920661	11.889	ppbv	99
59) m/p-Xylene	13.12	91	5020936m	22.476	ppbv	
60) o-Xylene	13.82	91	2519069	10.922	ppbv	99
61) Styrene	13.66	104	1828247	12.248	ppbv	100
62) Isopropylbenzene	14.80	105	3400017	10.937	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.81	83	1789954	10.310	ppbv	99
64) n-propylbenzene	15.70	120	885725	11.126	ppbv	99
65) tert-Butylbenzene	16.88	119	3263118	11.344	ppbv	100
66) Benzyl Chloride	17.13	91	1813884	12.443	ppbv	100
67) sec-Butylbenzene	17.43	105	4445672	11.017	ppbv	100
69) p-Isopropyltoluene	17.79	119	3763158	11.208	ppbv	100
70) n-Butylbenzene	18.69	91	3857996	10.491	ppbv	100
71) 2-Chlorotoluene	15.59	91	2592864	11.322	ppbv	100
72) 4-Ethyltoluene	15.97	105	3058754	11.654	ppbv	99
73) 1,3,5-Trimethylbenzene	16.13	105	2919577	11.292	ppbv	98
74) 1,2,4-Trimethylbenzene	16.90	105	3153748	10.583	ppbv	97
75) 1,3-Dichlorobenzene	17.14	146	1828107	9.796	ppbv	100
76) 1,4-Dichlorobenzene	17.28	146	1788006	10.435	ppbv	99
77) 1,2-Dichlorobenzene	17.96	146	1727587	10.032	ppbv	100
78) Hexachloro-1,3-Butadiene	23.52	225	1197766	8.905	ppbv	99
79) Naphthalene	22.38	128	2225497	9.343	ppbv	98
80) Naphthalene, 2-methyl-	25.09	142	805337	8.474	ppbv #	95
81) 1,2,4-Trichlorobenzene	22.10	180	1321904	8.791	ppbv	100

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 873

Delta R.T. -0.01 min

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MSVOA_L

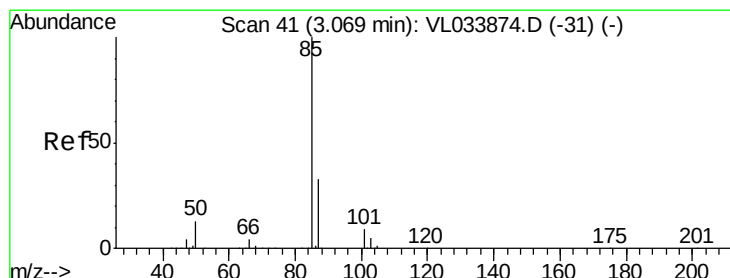
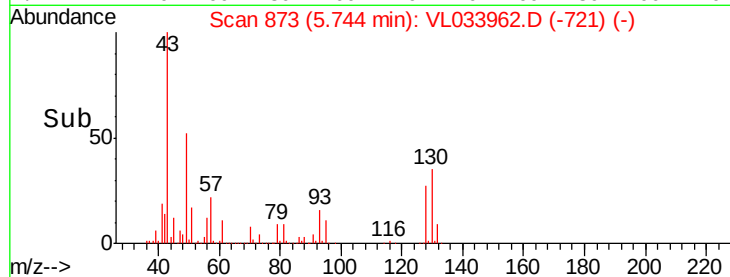
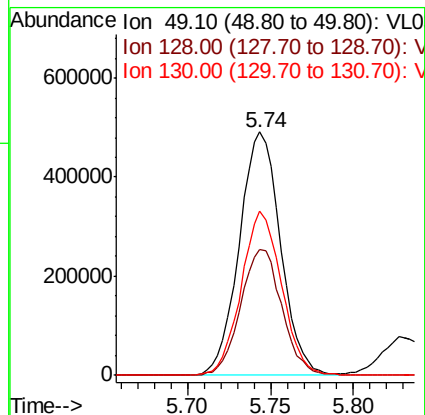
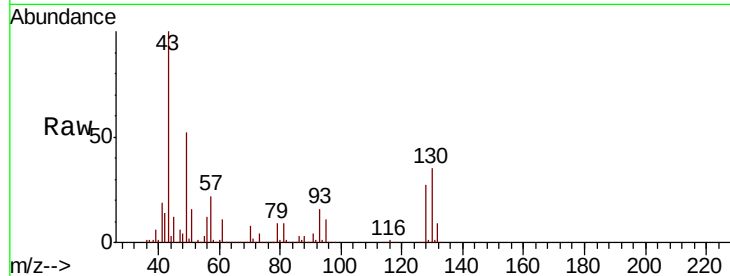
ClientSampleId :

VSTDCCC010EC

Tot Ion:	49	Resp:	852120
Ion	Ratio	Lower	Upper
49	100		
128	51.9	25.5	76.5
130	66.0	32.5	97.4

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 9.273 ppbv

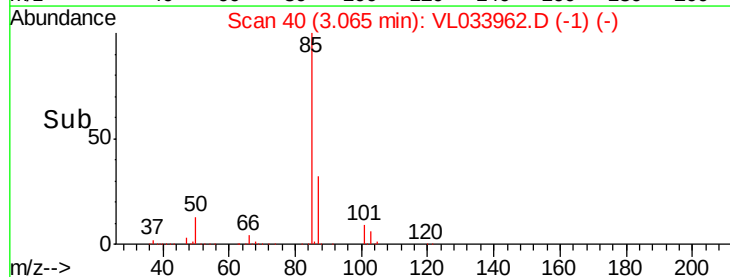
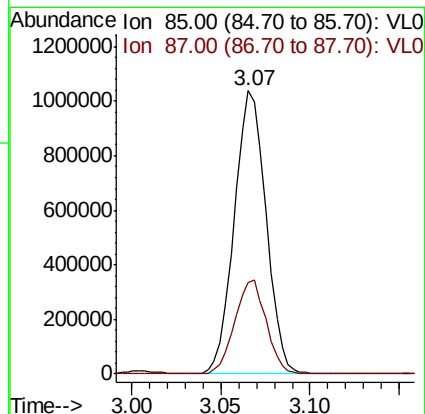
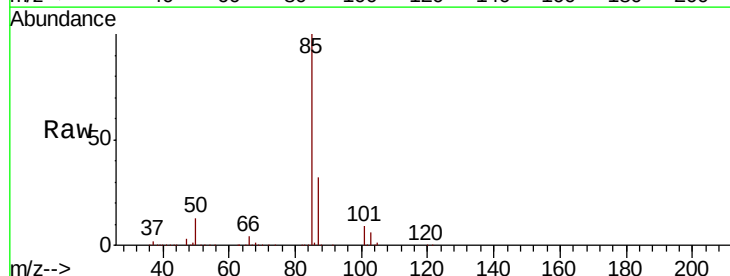
RT: 3.07 min Scan# 40

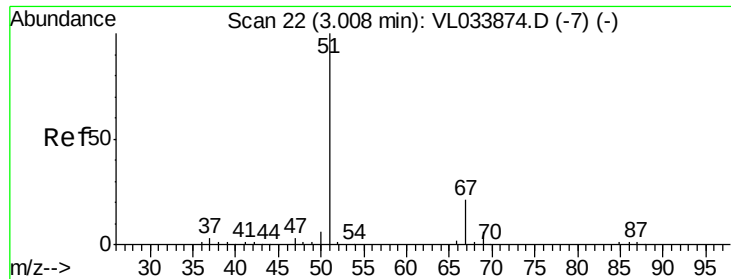
Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion:	85	Resp:	1282181
Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.6	40.0





#3

Chlorodifluoromethane

Concen: 9.729 ppbv

RT: 3.00 min Scan# 21

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 51 Resp: 975945

Ion Ratio Lower Upper

51 100

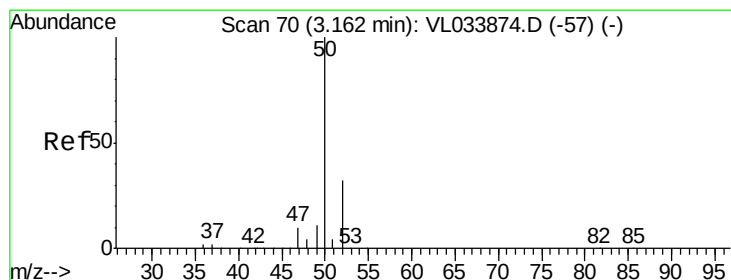
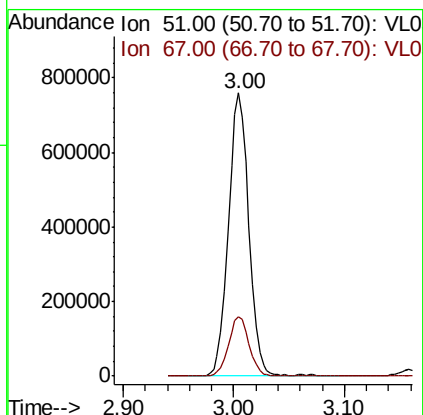
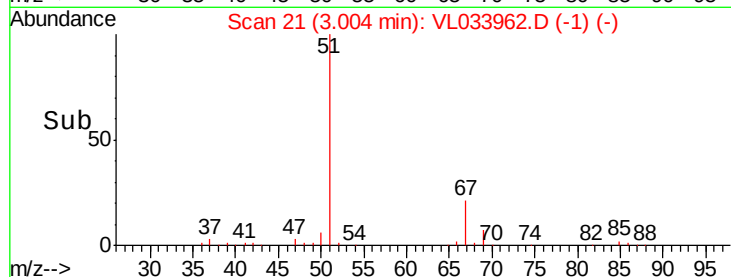
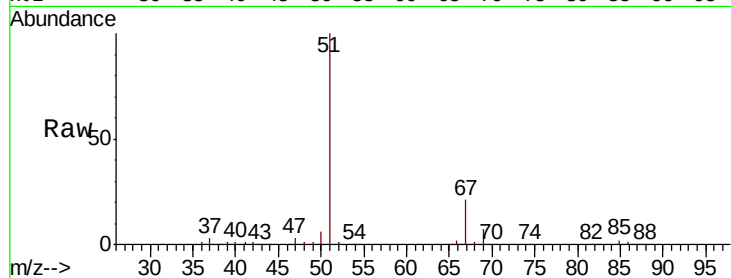
67 21.0 16.4 24.6

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#4

Chloromethane

Concen: 9.689 ppbv

RT: 3.16 min Scan# 69

Delta R.T. -0.00 min

Lab File: VL033962.D

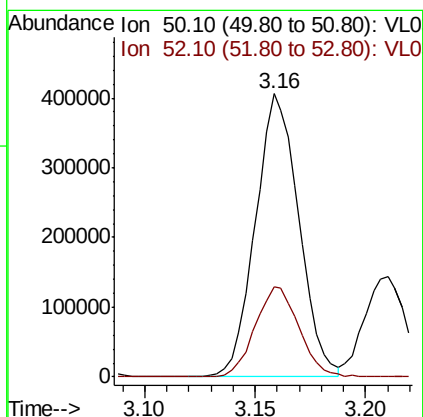
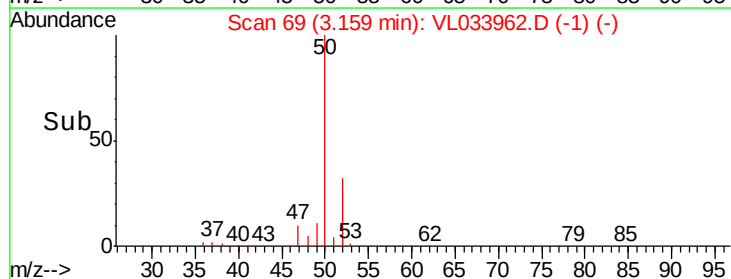
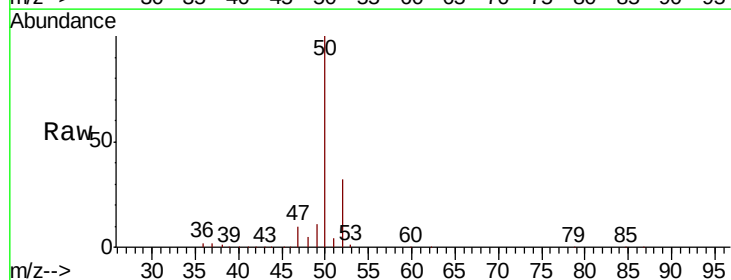
Acq: 25 Jun 2019 8:31

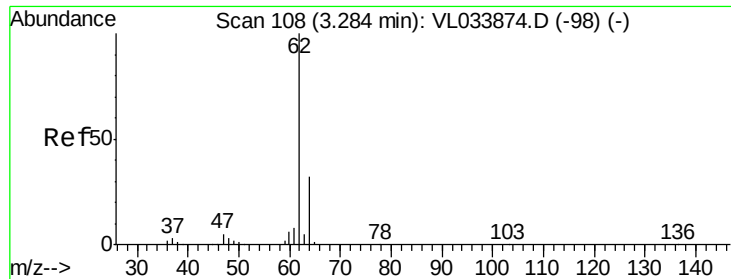
Tgt Ion: 50 Resp: 554398

Ion Ratio Lower Upper

50 100

52 32.0 25.4 38.0





#5

Vinyl Chloride

Concen: 10.827 ppbv

RT: 3.28 min Scan# 107

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 62 Resp: 574820

Ion Ratio Lower Upper

62 100

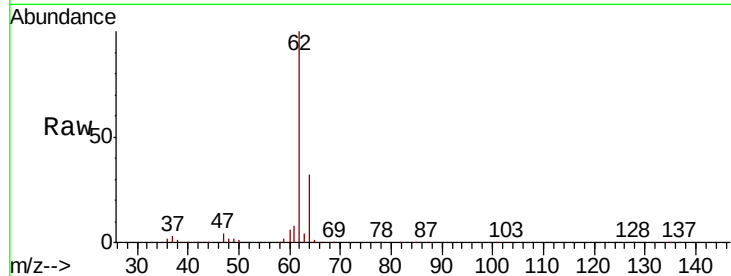
64 31.6 25.2 37.8

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

500000

400000

300000

200000

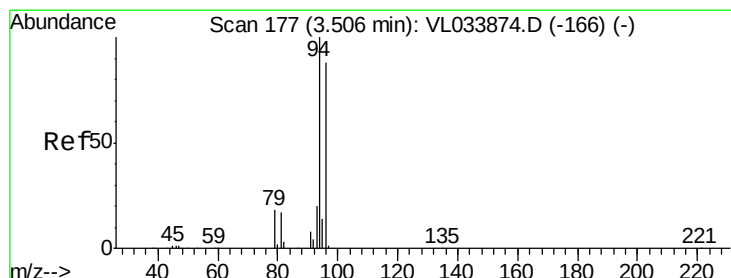
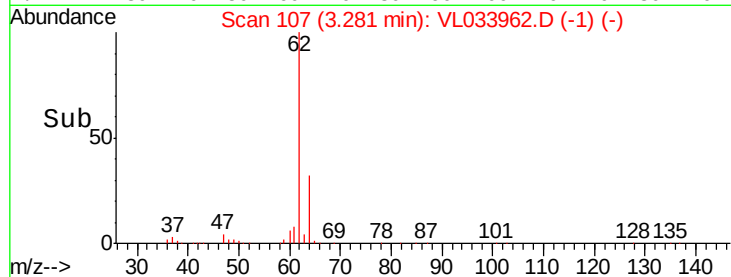
100000

0

3.25

3.30

Time-->



#6

Bromomethane

Concen: 10.465 ppbv

RT: 3.50 min Scan# 175

Delta R.T. -0.01 min

Lab File: VL033962.D

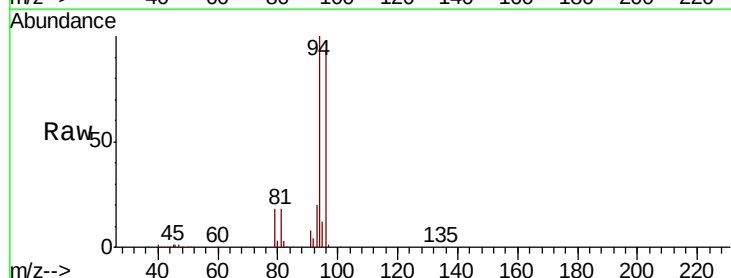
Acq: 25 Jun 2019 8:31

Tgt Ion: 94 Resp: 369108

Ion Ratio Lower Upper

94 100

96 93.4 70.2 105.2



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0

300000

250000

200000

150000

100000

50000

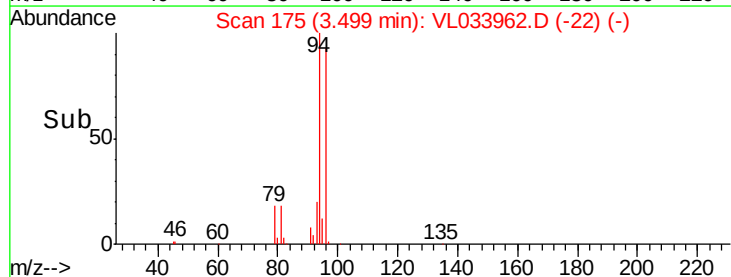
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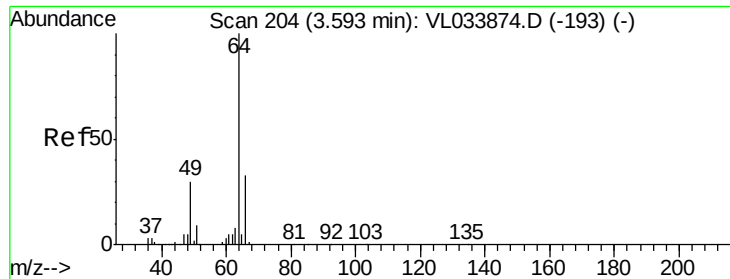
3.45

3.50

3.55

Time-->





#7

Chloroethane

Concen: 10.184 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 64 Resp: 213829

Ion Ratio Lower Upper

64 100

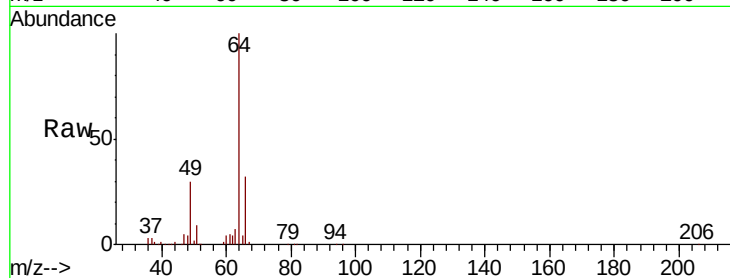
66 31.9 26.7 40.1

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.59

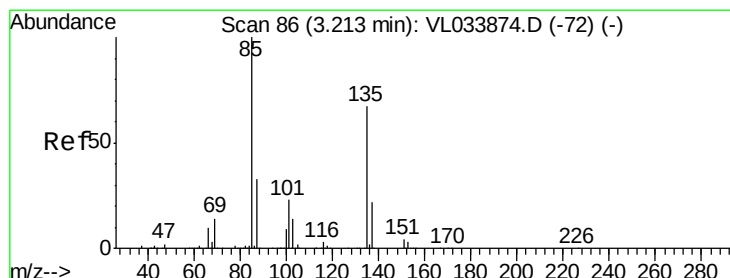
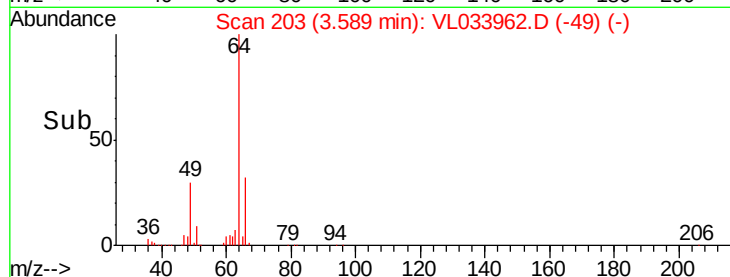
150000

100000

50000

0

Time-->



#8

Dichlorotetrafluoroethane

Concen: 10.261 ppbv

RT: 3.21 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL033962.D

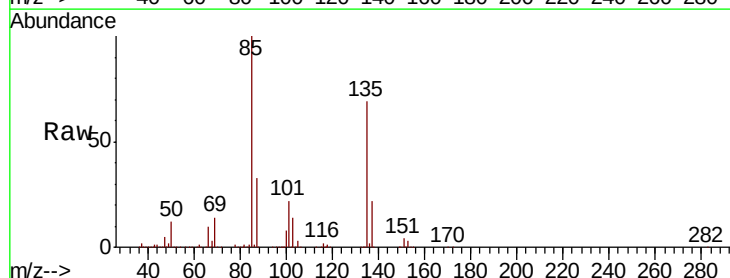
Acq: 25 Jun 2019 8:31

Tgt Ion: 85 Resp: 1516327

Ion Ratio Lower Upper

85 100

135 68.7 53.7 80.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

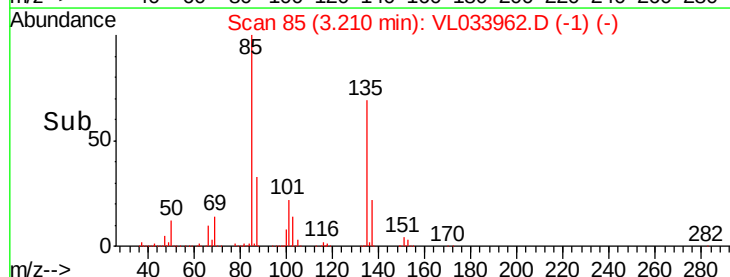
3.21

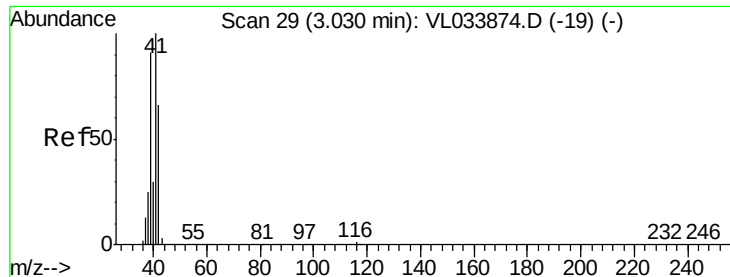
1000000

500000

0

Time-->





#9

Propene

Concen: 10.583 ppbv

RT: 3.03 min Scan# 28

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 41 Resp: 397224

Ion Ratio Lower Upper

41 100

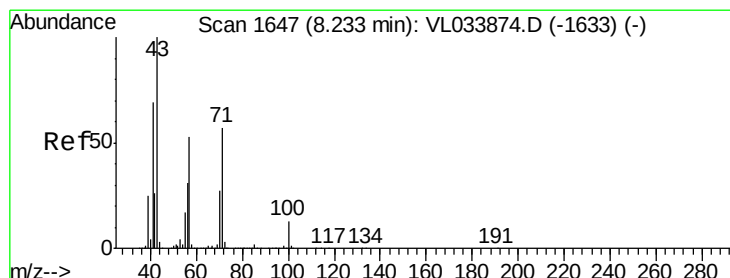
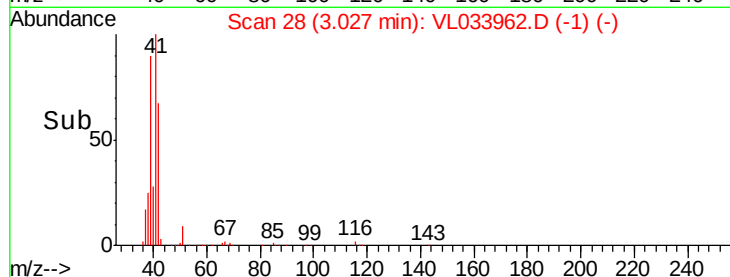
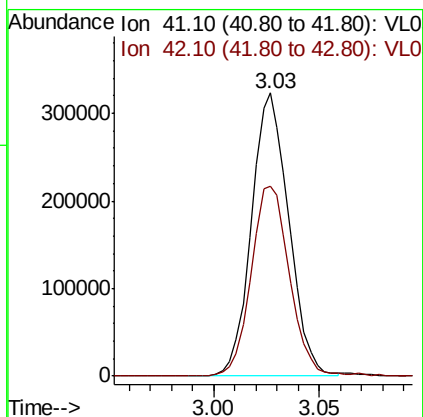
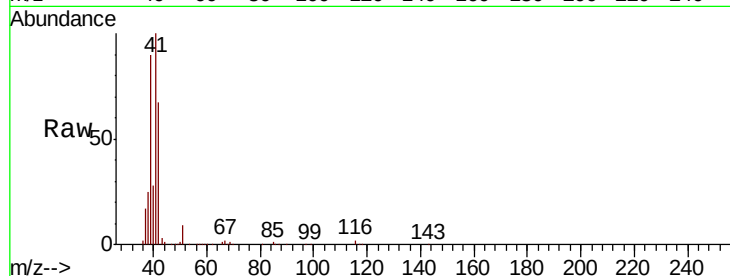
42 69.8 56.3 84.5

Manual Integrations

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#10

Heptane

Concen: 11.502 ppbv

RT: 8.22 min Scan# 1643

Delta R.T. -0.01 min

Lab File: VL033962.D

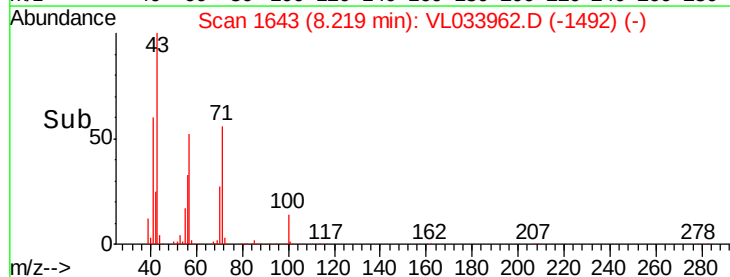
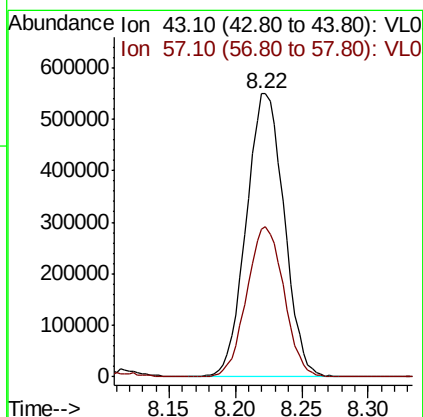
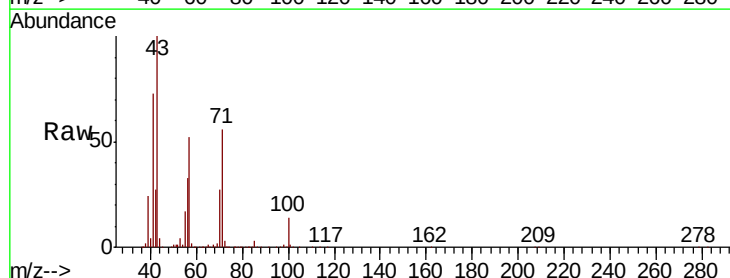
Acq: 25 Jun 2019 8:31

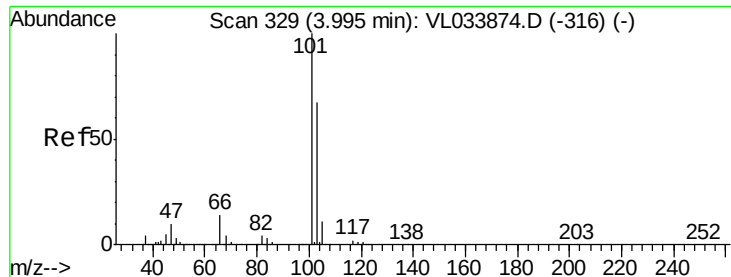
Tgt Ion: 43 Resp: 1091266

Ion Ratio Lower Upper

43 100

57 52.3 41.7 62.5





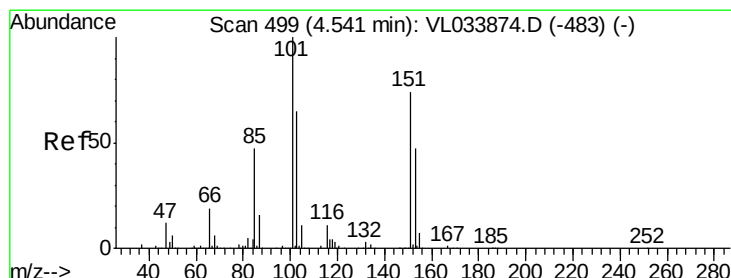
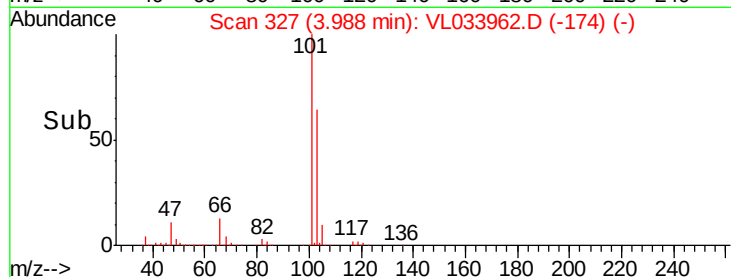
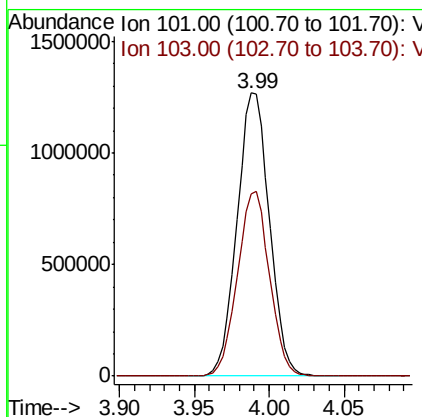
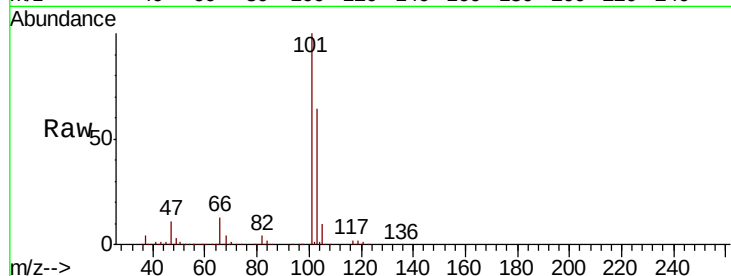
#11
 Trichlorofluoromethane
 Concen: 10.713 ppbv
 RT: 3.99 min Scan# 327
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:101 Resp: 1911355
 Ion Ratio Lower Upper
 101 100
 103 64.3 53.6 80.4

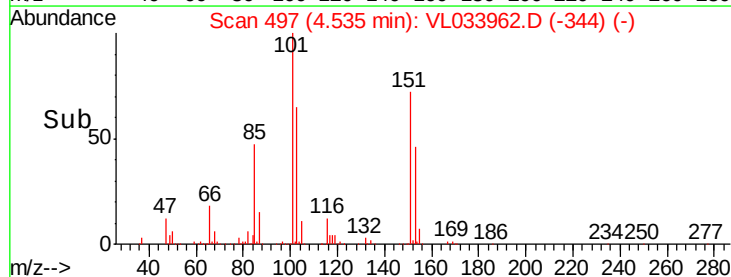
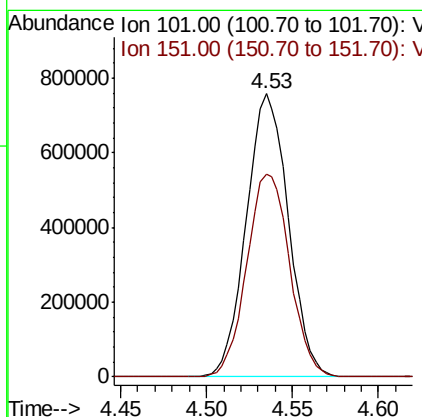
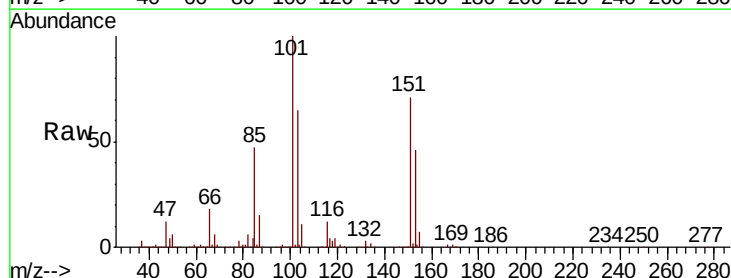
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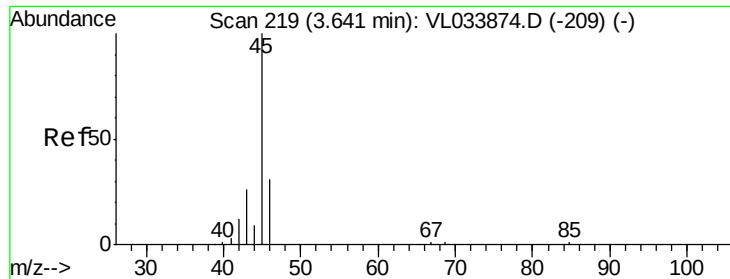
MMDadoda
 6/26/2019 8:16:00 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 10.676 ppbv
 RT: 4.53 min Scan# 497
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion:101 Resp: 1287279
 Ion Ratio Lower Upper
 101 100
 151 73.2 58.6 87.8





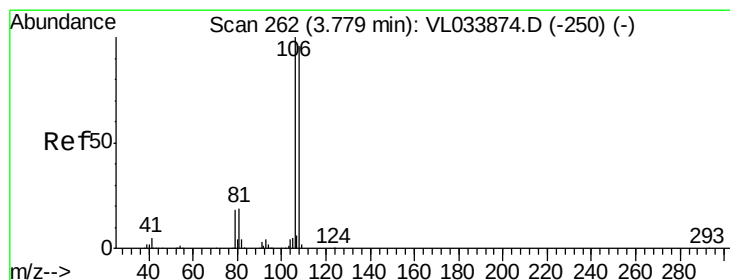
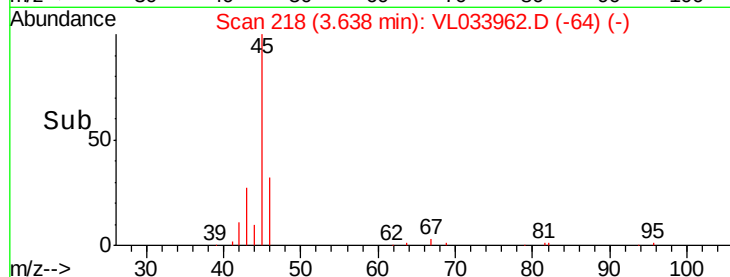
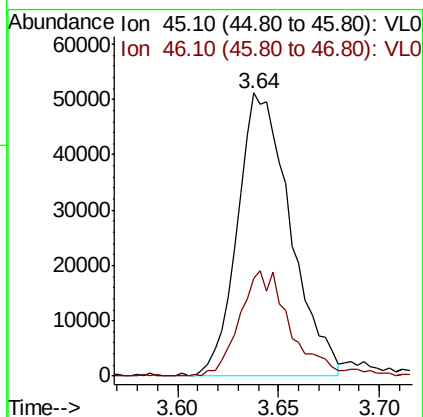
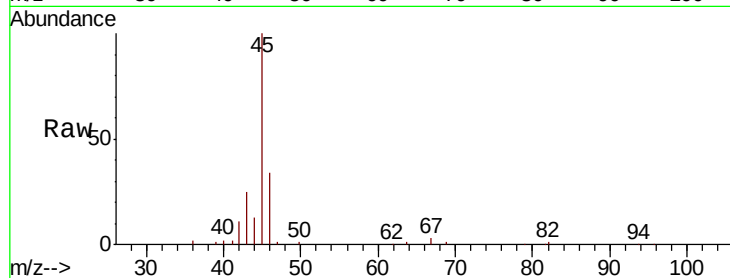
#13
Ethanol
Concen: 7.694 ppbv
RT: 3.64 min Scan# 218
Delta R.T. -0.00 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.9	15.3	61.1

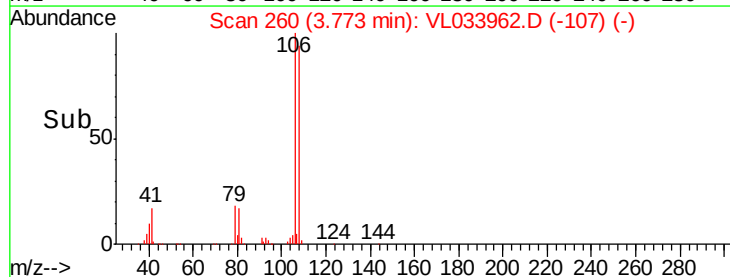
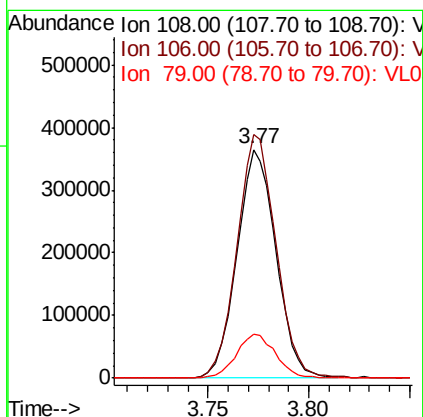
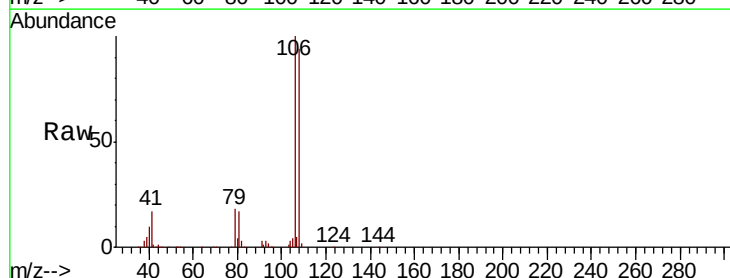
Manual Integrations
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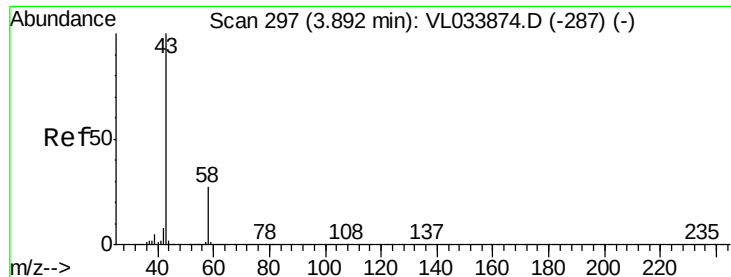
MMDadoda
6/26/2019 8:16:00 AM



#14
Bromoethene
Concen: 11.023 ppbv
RT: 3.77 min Scan# 260
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion	Ratio	Lower	Upper
108	100		
106	106.7	84.9	127.3
79	19.6	15.4	23.0





#15

Acetone

Concen: 9.747 ppbv

RT: 3.89 min Scan# 296

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1211344

Ion Ratio Lower Upper

43 100

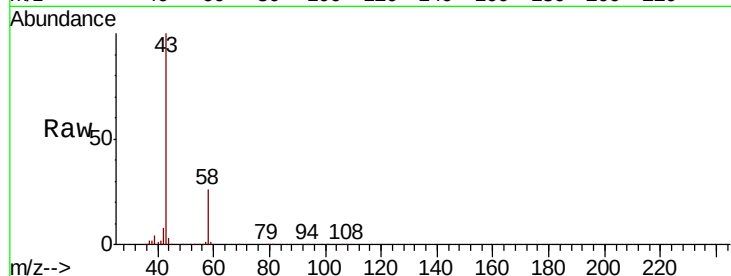
58 26.6 21.3 31.9

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.89

800000

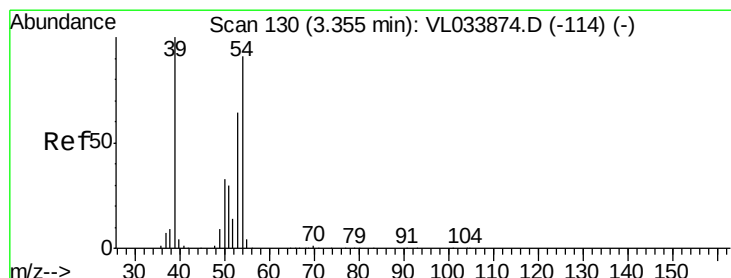
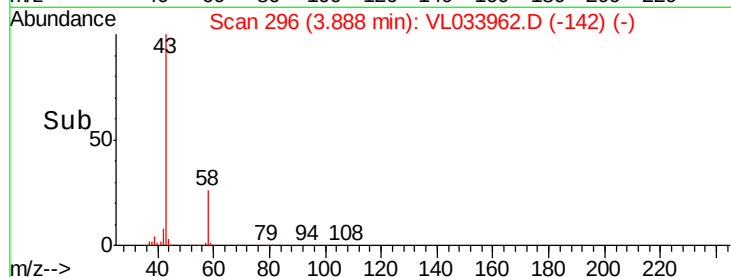
600000

400000

200000

0

Time-->



#16

1,3-Butadiene

Concen: 10.701 ppbv

RT: 3.35 min Scan# 129

Delta R.T. -0.00 min

Lab File: VL033962.D

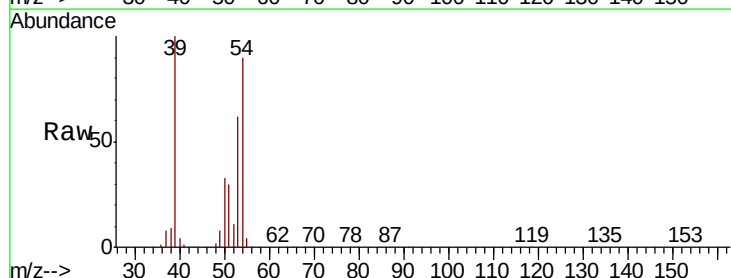
Acq: 25 Jun 2019 8:31

Tgt Ion: 39 Resp: 506180

Ion Ratio Lower Upper

39 100

54 85.4 68.6 103.0



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

3.35

400000

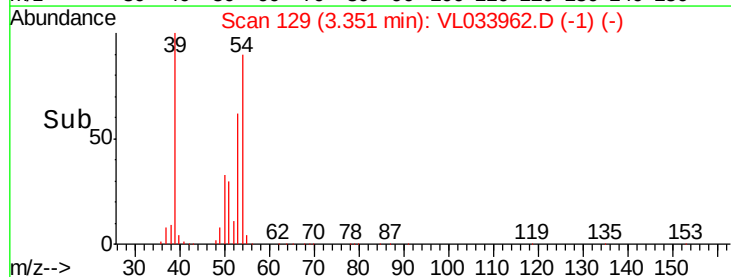
300000

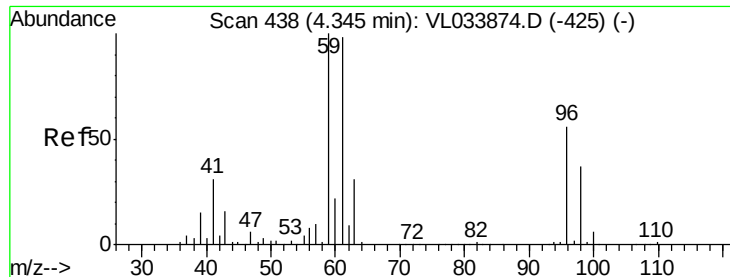
200000

100000

0

Time-->





#17

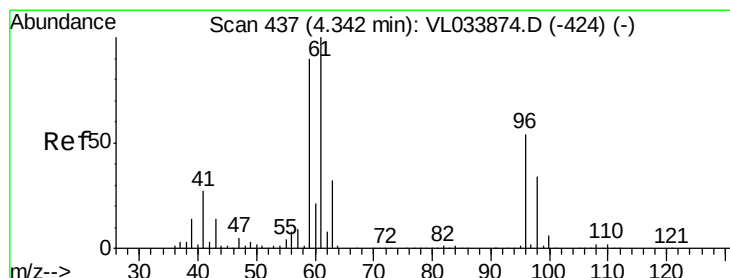
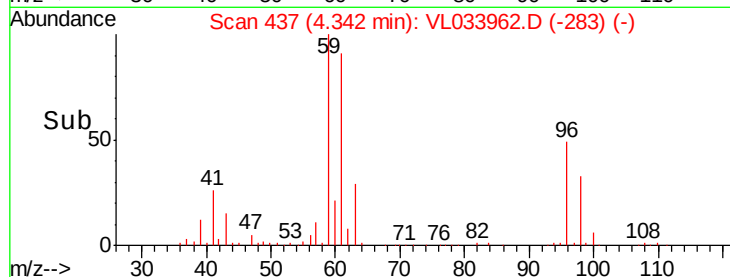
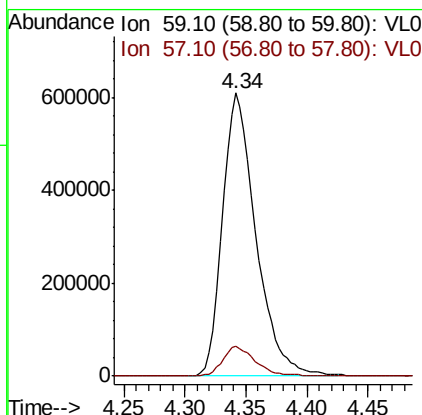
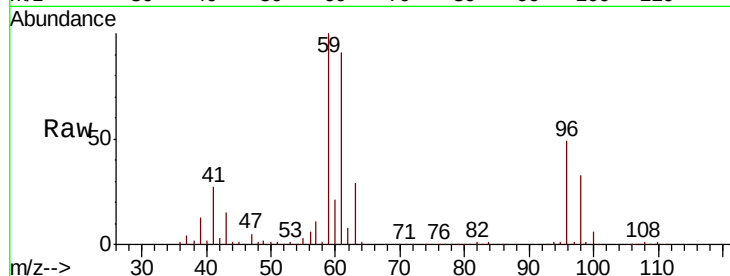
tert-Butyl alcohol
Concen: 12.029 ppbv
RT: 4.34 min Scan# 437
Delta R.T. -0.00 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 59 Resp: 1168606
Ion Ratio Lower Upper
59 100
57 10.4 8.4 12.6

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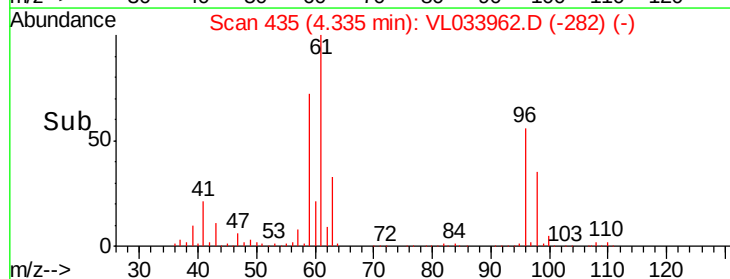
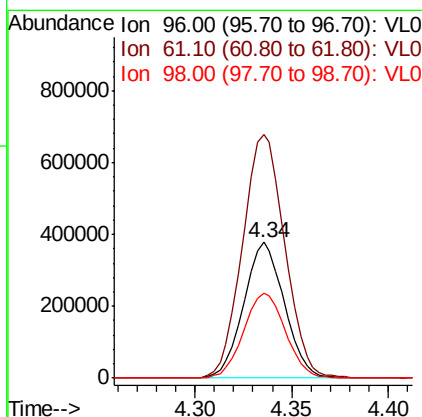
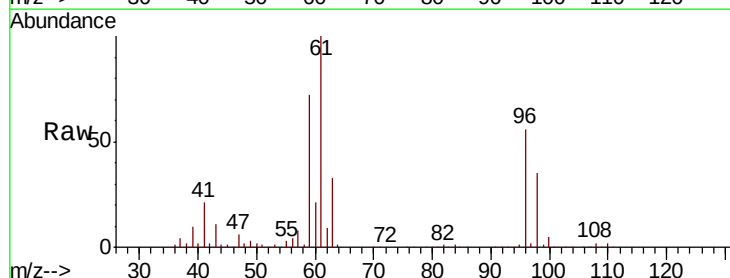
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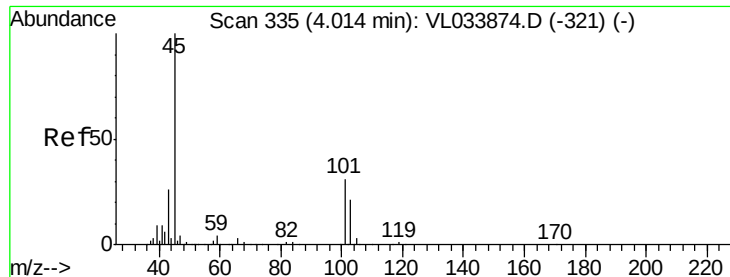


#18

1,1-Dichloroethene
Concen: 10.835 ppbv
RT: 4.34 min Scan# 435
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 96 Resp: 551848
Ion Ratio Lower Upper
96 100
61 179.3 147.0 220.6
98 62.2 49.4 74.0





#19

Isopropyl Alcohol

Concen: 11.108 ppbv

RT: 4.01 min Scan# 335

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 45 Resp: 788652

Ion Ratio Lower Upper

45 100

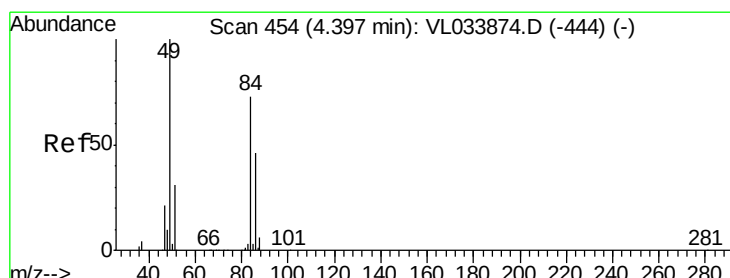
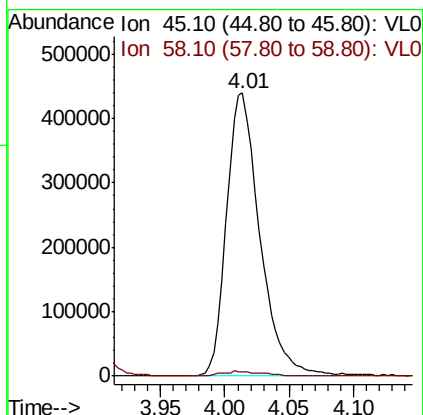
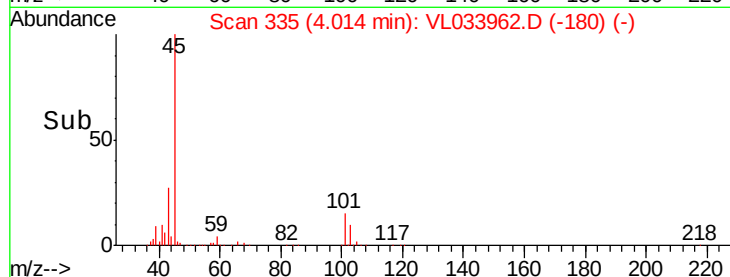
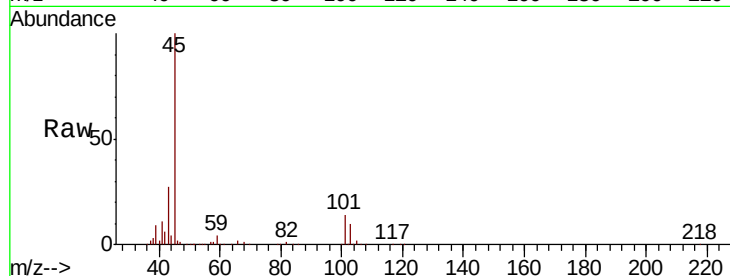
58 2.5 1.8 2.6

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#20

Methylene Chloride

Concen: 9.861 ppbv

RT: 4.39 min Scan# 453

Delta R.T. -0.00 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion: 84 Resp: 477926

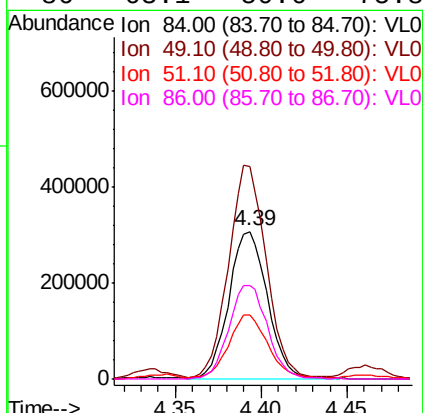
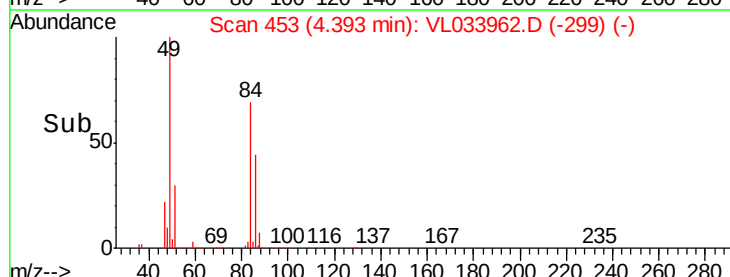
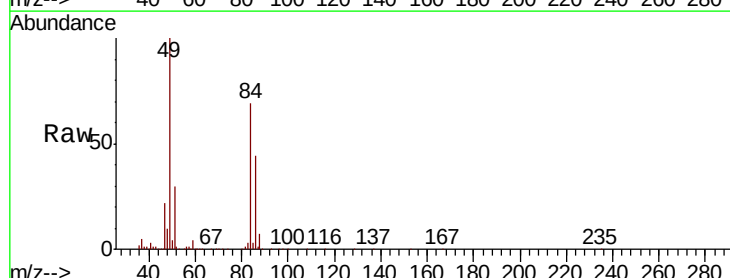
Ion Ratio Lower Upper

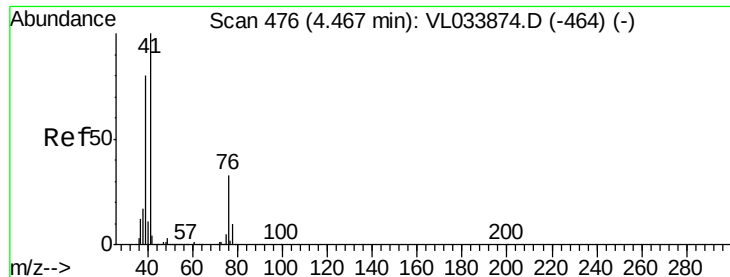
84 100

49 143.6 110.0 165.0

51 43.0 34.6 51.8

86 63.1 50.6 75.8





#21

Allvl Chloride

Concen: 11.493 ppbv

RT: 4.46 min Scan# 474

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

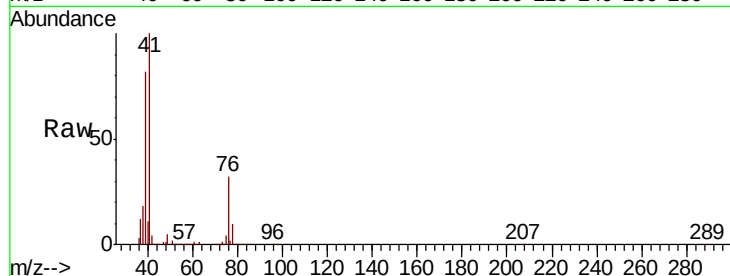
ClientSampleId :

VSTDCCC010EC

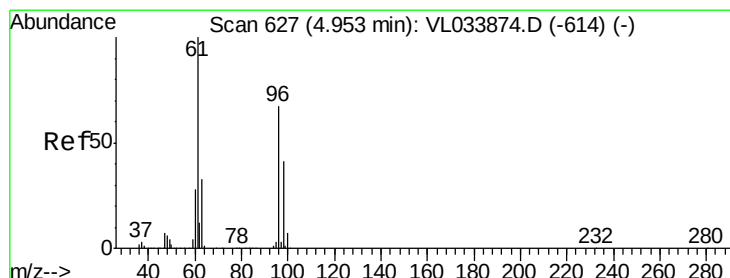
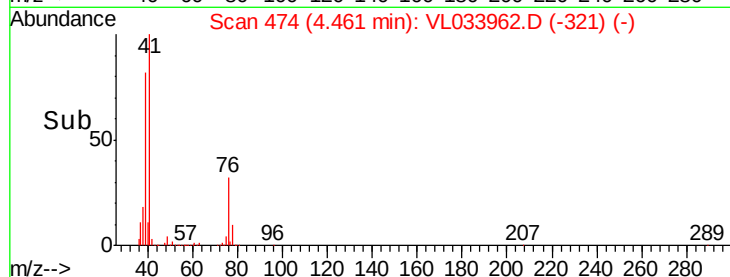
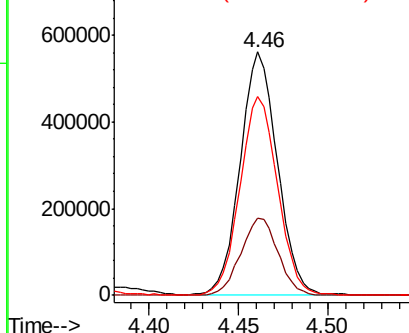
Tot Ion:	41	Resp:	811358
Ion Ratio		Lower	Upper
41	100		
76	32.4	26.6	39.8
39	83.4	65.2	97.8

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



#22

trans-1,2-Dichloroethene

Concen: 10.774 ppbv

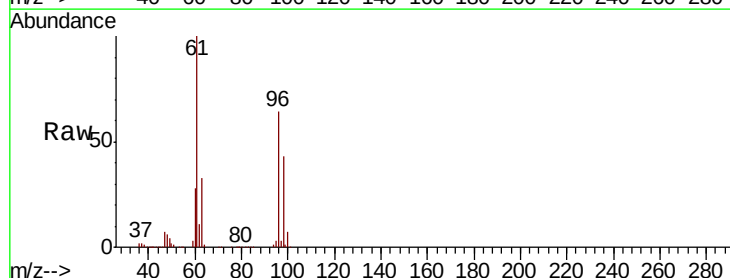
RT: 4.95 min Scan# 625

Delta R.T. -0.01 min

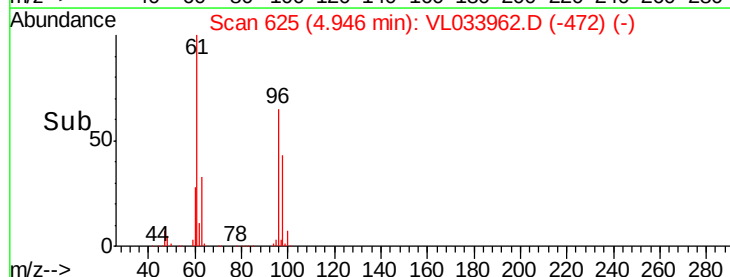
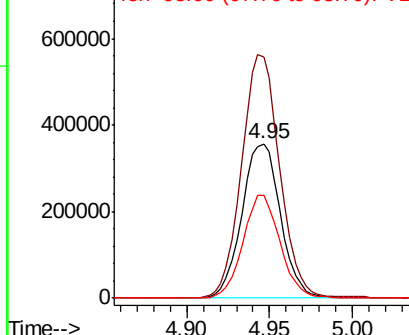
Lab File: VL033962.D

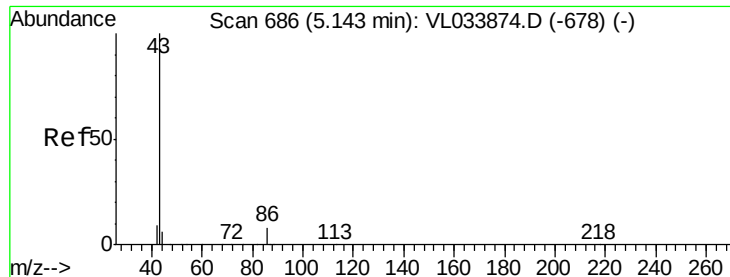
Acq: 25 Jun 2019 8:31

Tgt Ion:	96	Resp:	578420
Ion Ratio		Lower	Upper
96	100		
61	156.2	119.0	178.6
98	66.5	48.3	72.5



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





#23

Vinyl Acetate

Concen: 11.185 ppbv

RT: 5.14 min Scan# 684

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 43 Resp: 1615698

Ion Ratio Lower Upper

43 100

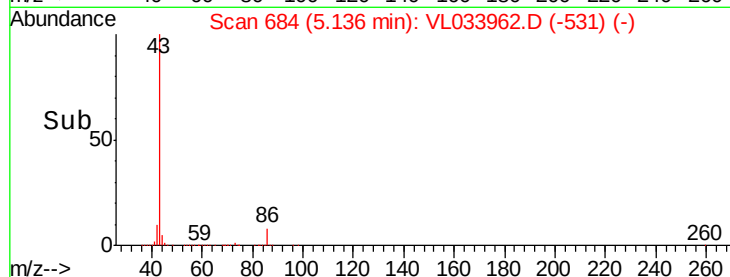
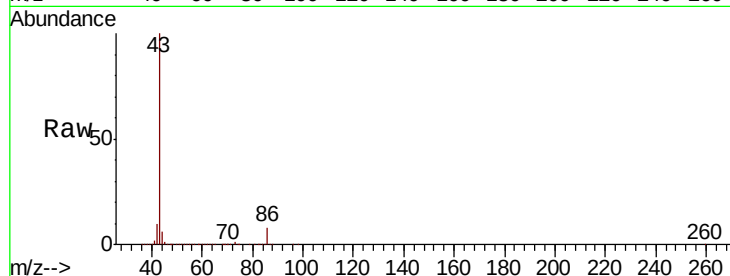
86 7.9 5.8 8.8

42 10.3 7.8 11.8

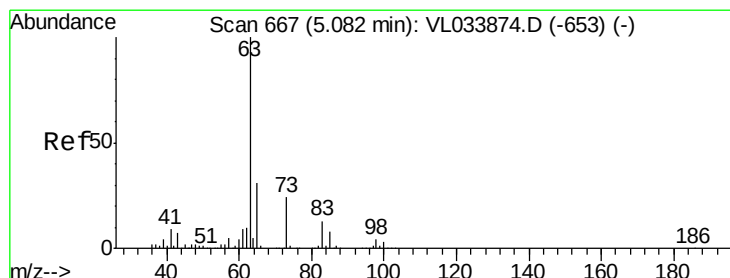
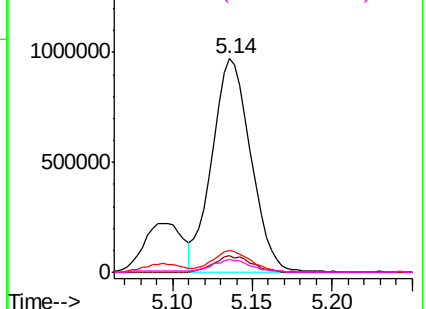
44 5.6 4.2 6.4

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Abundance Ion 43.10 (42.80 to 43.80): VL0
1500000 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: 10.393 ppbv

RT: 5.07 min Scan# 664

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

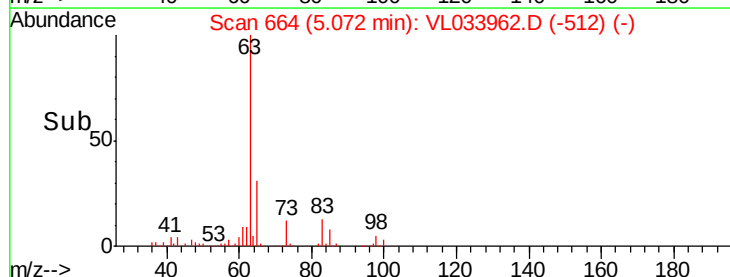
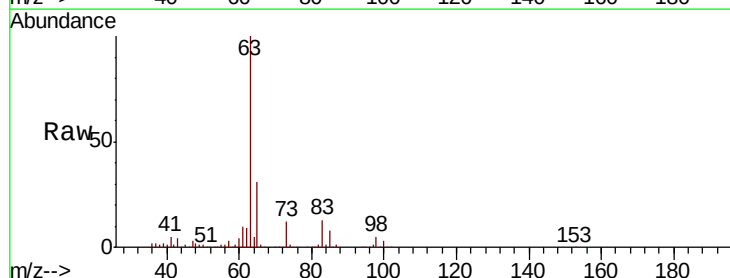
Tgt Ion: 63 Resp: 1167730

Ion Ratio Lower Upper

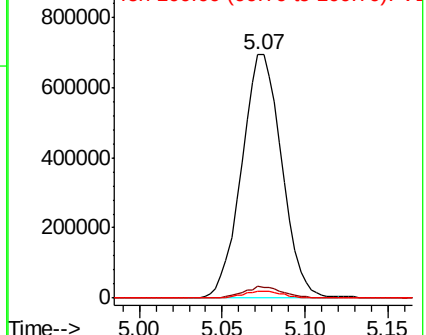
63 100

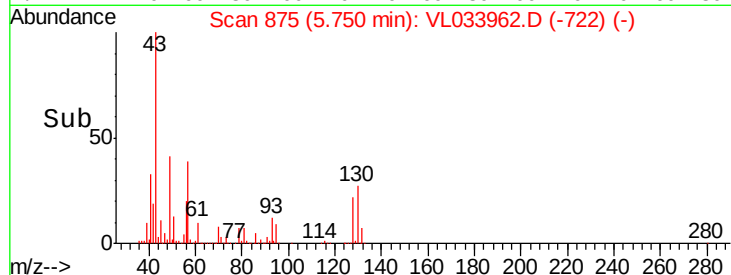
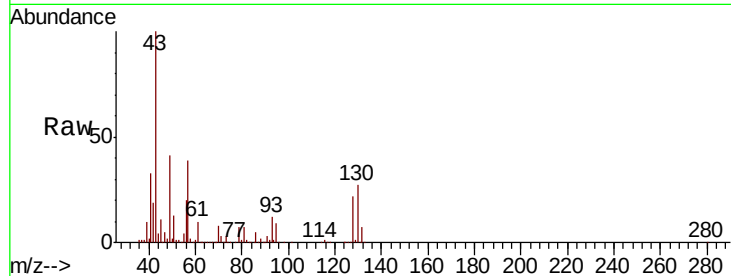
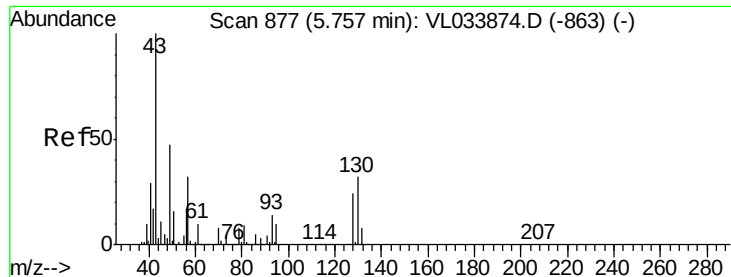
98 4.6 2.2 6.6

100 2.8 1.3 3.8



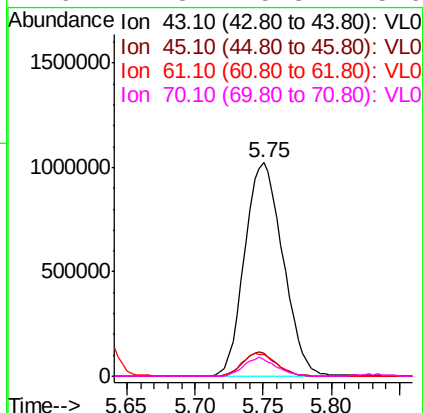
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 98.00 (97.70 to 98.70): VL0
Ion 100.00 (99.70 to 100.70): VL0





#25
Ethyl Acetate
Concen: 10.524 ppbv
RT: 5.75 min Scan# 875
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

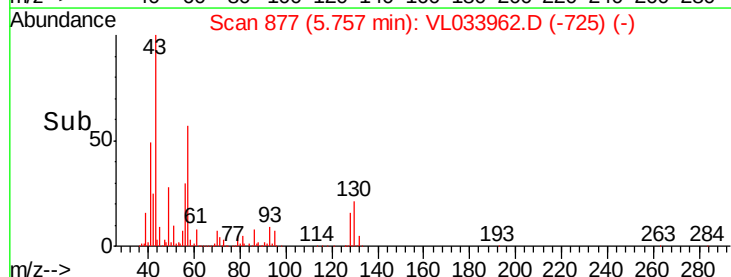
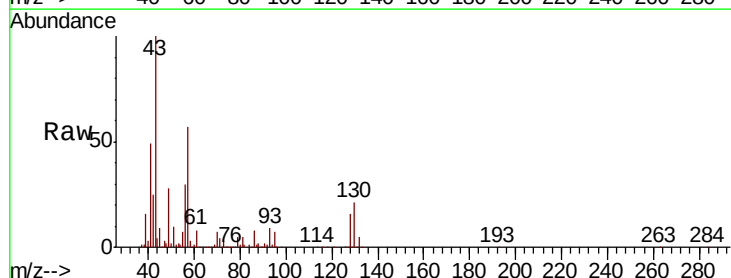
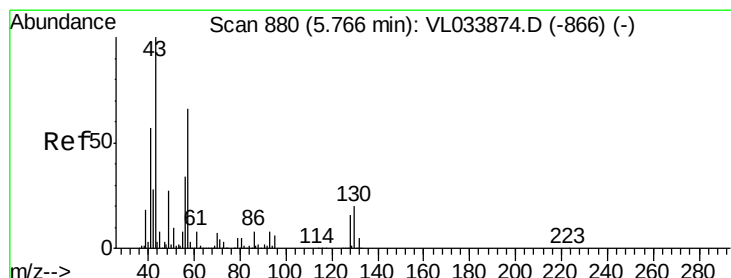
Tot Ion	Ion	Ratio	Lower	Upper
43	43	100		
45	45	9.9	7.9	11.9
61	61	9.5	7.8	11.6
70	70	7.3	5.8	8.6



Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

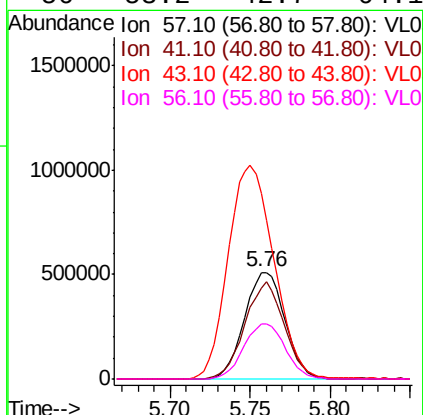
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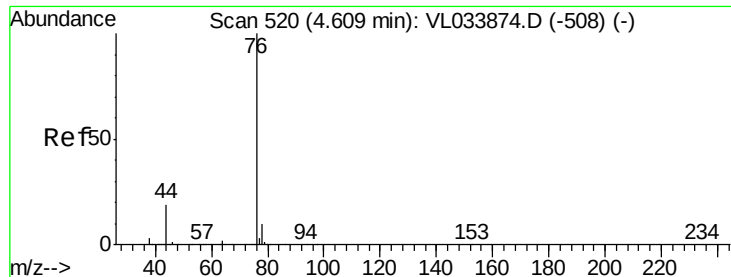
MMDadoda
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#26
Hexane
Concen: 10.221 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion	Ion	Ratio	Lower	Upper
57	57	100		
41	41	89.0	71.4	107.2
43	43	227.3	183.7	275.5
56	56	53.2	42.7	64.1





#27

Carbon Disulfide

Concen: 11.633 ppbv

RT: 4.60 min Scan# 518

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 76 Resp: 1392774

Ion Ratio Lower Upper

76 100

44 18.0 14.4 21.6

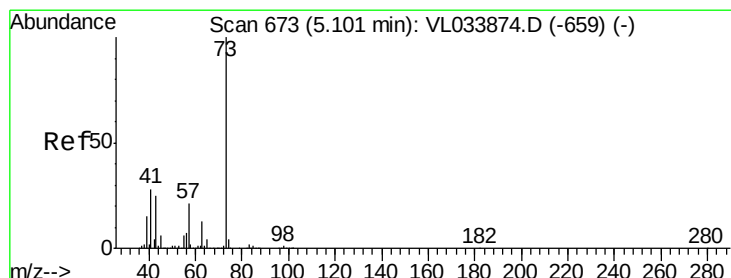
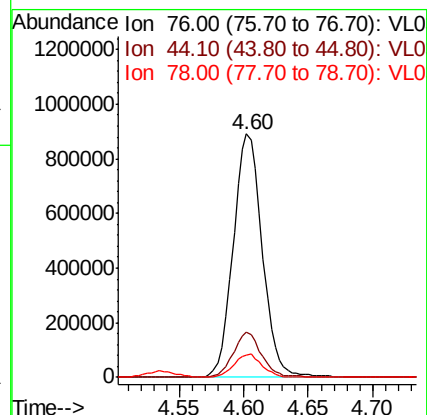
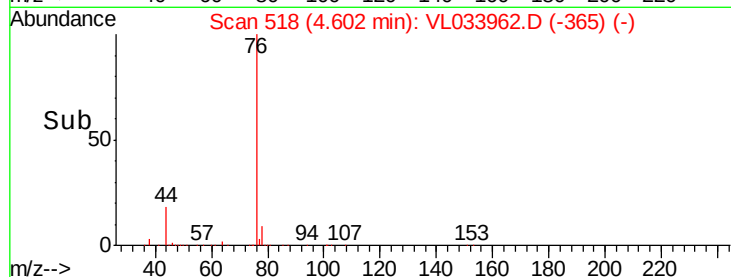
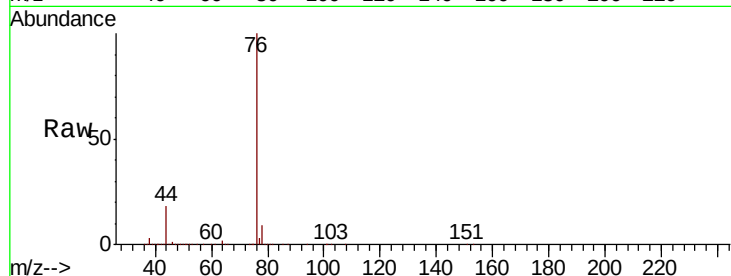
78 9.2 7.5 11.3

Manual Integrations

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#28

Methyl tert-Butyl Ether

Concen: 12.292 ppbv

RT: 5.09 min Scan# 671

Delta R.T. -0.01 min

Lab File: VL033962.D

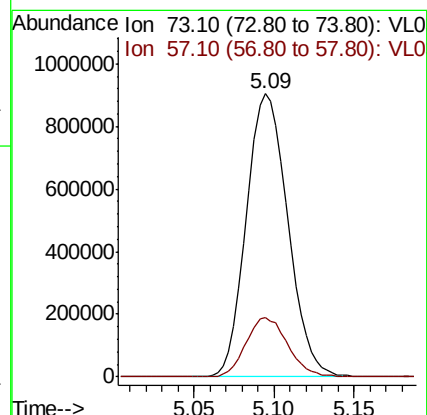
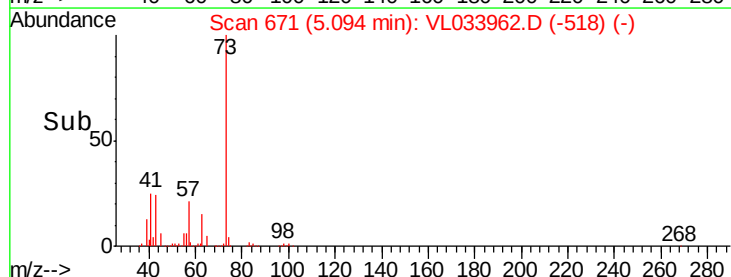
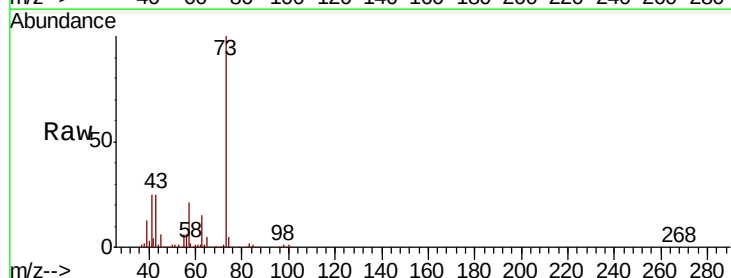
Acq: 25 Jun 2019 8:31

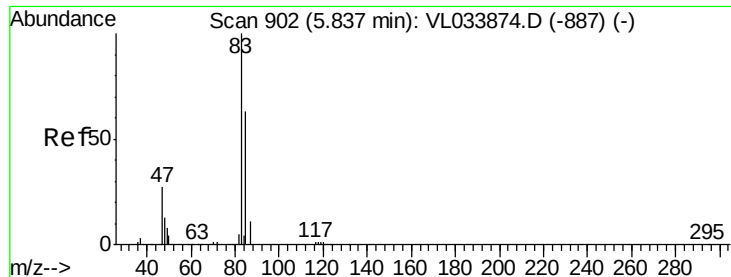
Tgt Ion: 73 Resp: 1601755

Ion Ratio Lower Upper

73 100

57 21.3 17.2 25.8





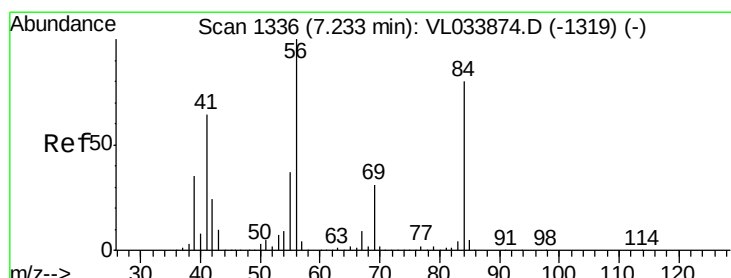
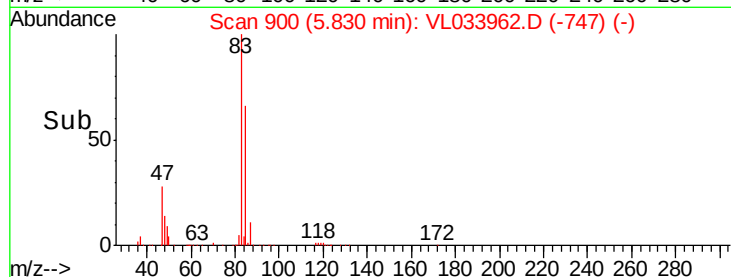
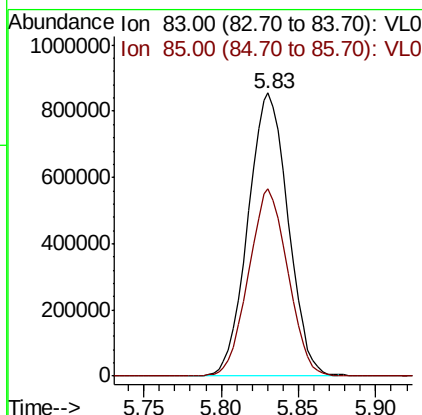
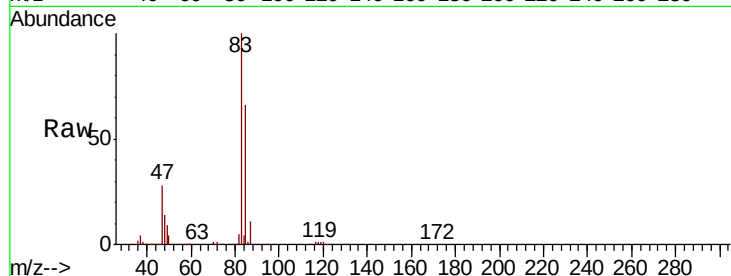
#29
Chloroform
Concen: 10.451 ppbv
RT: 5.83 min Scan# 900
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 83 Resp: 1542477
Ion Ratio Lower Upper
83 100
85 66.1 50.5 75.7

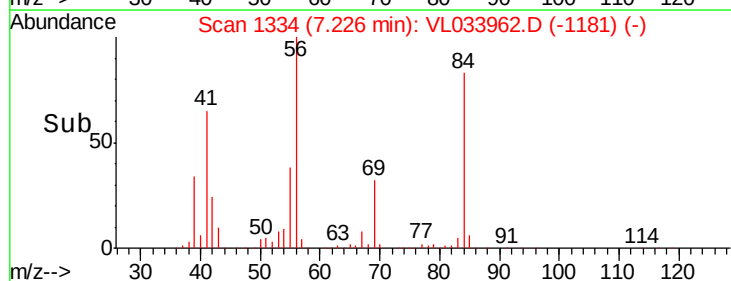
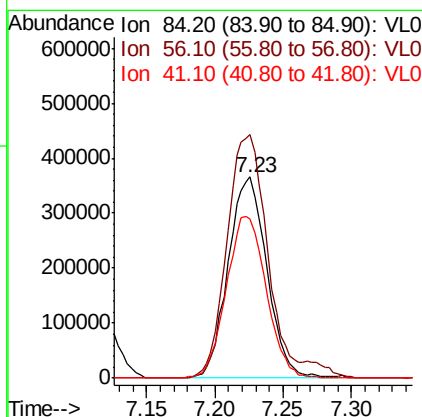
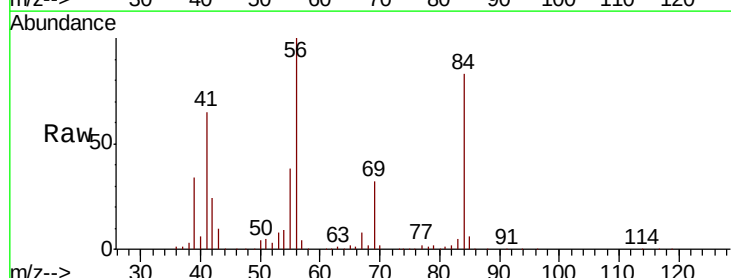
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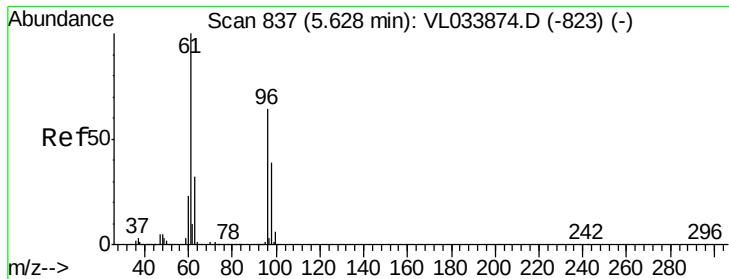
MMDadoda
6/26/2019 8:16:00 AM



#30
Cyclohexane
Concen: 11.774 ppbv
RT: 7.23 min Scan# 1334
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 84 Resp: 716905
Ion Ratio Lower Upper
84 100
56 131.6 105.8 158.8
41 83.5 65.7 98.5





#31

cis-1,2-Dichloroethene

Concen: 11.611 ppbv

RT: 5.62 min Scan# 835

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

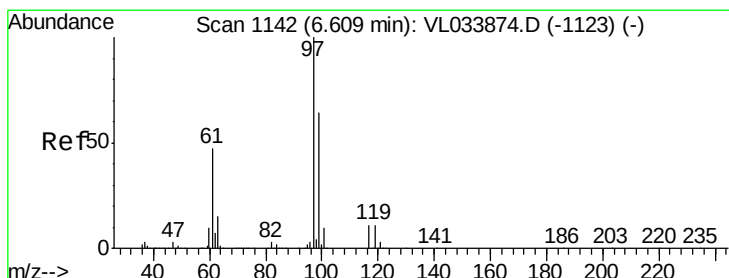
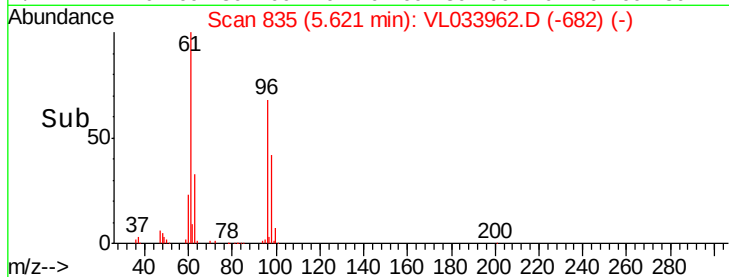
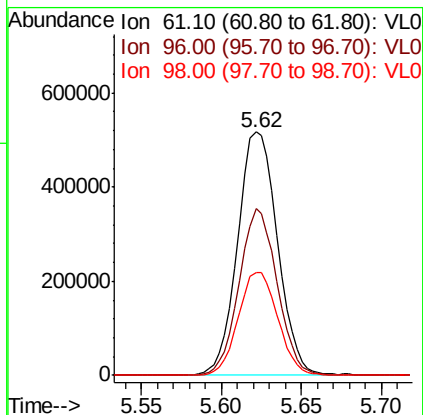
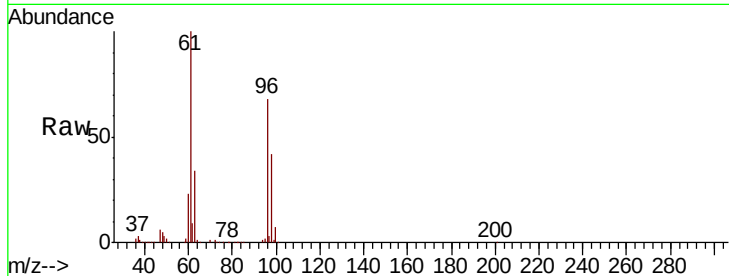
ClientSampleId :

VSTDCCC010EC

Tot Ion:	61	Resp:	877370
Ion	Ratio	Lower	Upper
61	100		
96	68.3	50.9	76.3
98	42.1	31.4	47.2

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#32

1,1,1-Trichloroethane

Concen: 11.378 ppbv

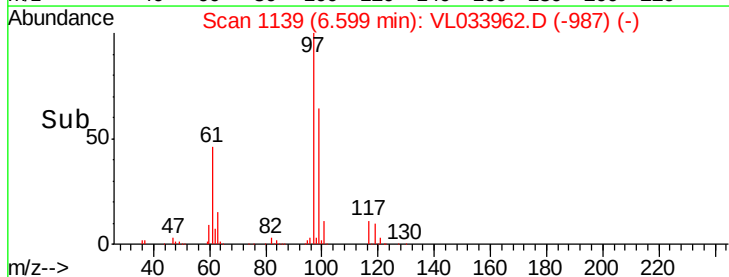
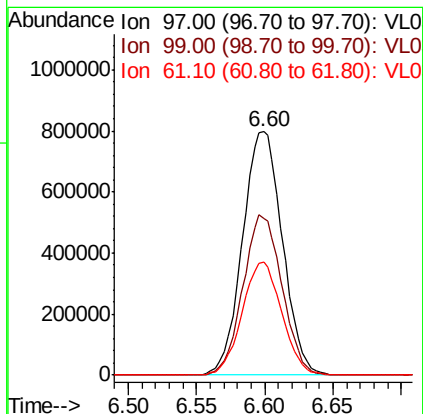
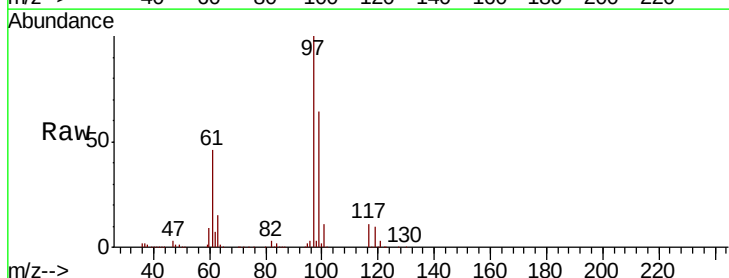
RT: 6.60 min Scan# 1139

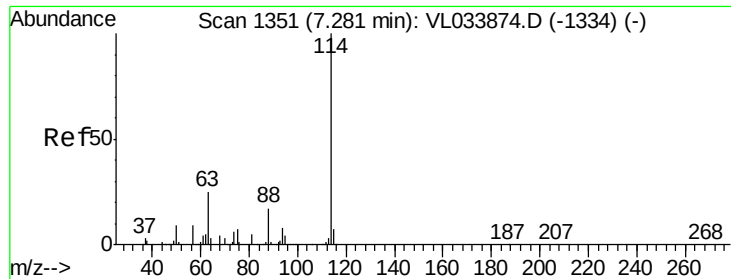
Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion:	97	Resp:	1619919
Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.7	77.5
61	46.3	37.7	56.5





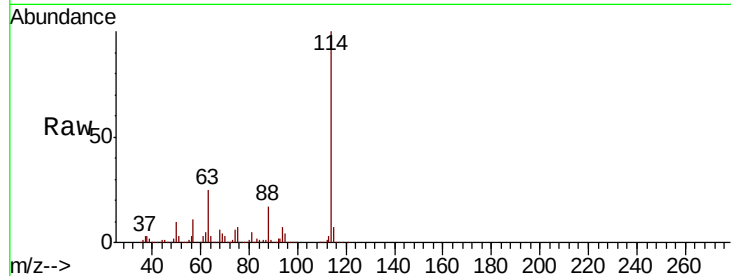
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.27 min Scan# 1348
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.4	21.1	31.7
88	17.5	14.2	21.4

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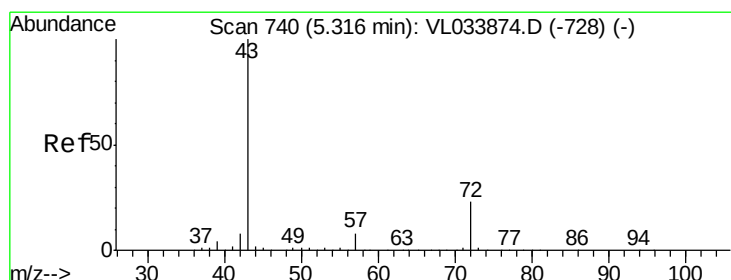
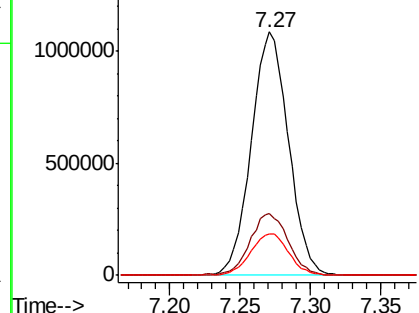
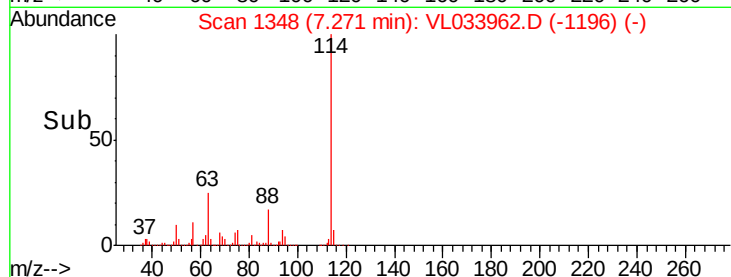


Abundance

Ion 114.10 (113.80 to 114.80): VL0

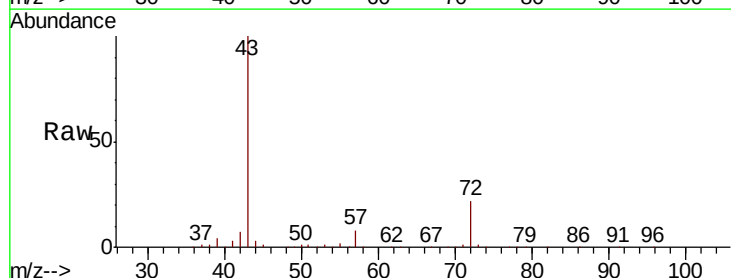
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 11.261 ppbv
 RT: 5.31 min Scan# 738
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

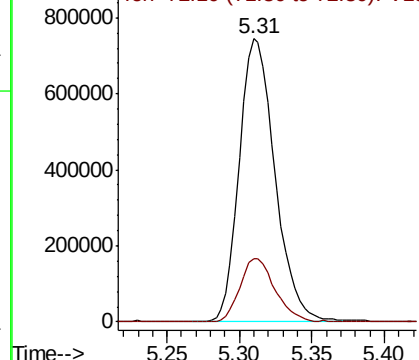
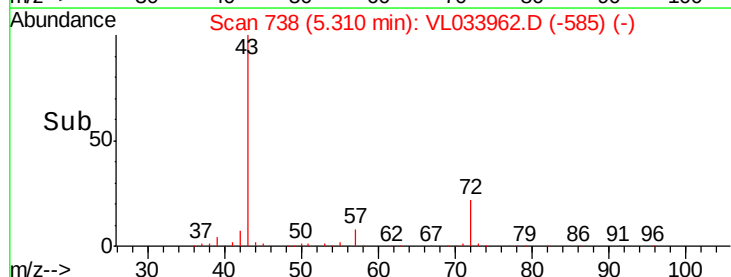
Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.1	17.9	26.9

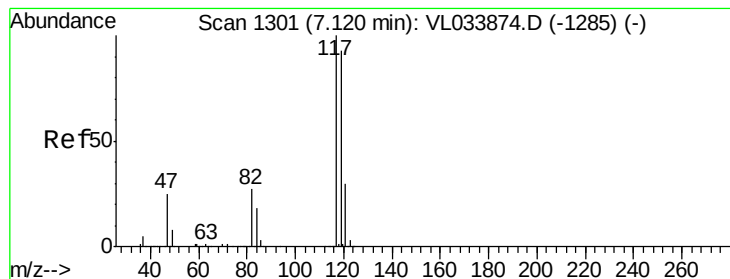


Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 11.091 ppbv

RT: 7.11 min Scan# 1298

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 1717754

Ion Ratio Lower Upper

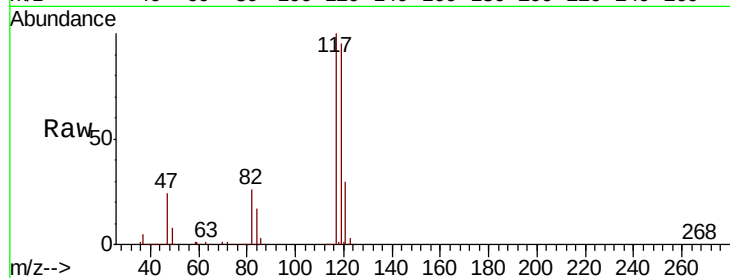
117 100

119 95.1 74.6 111.8

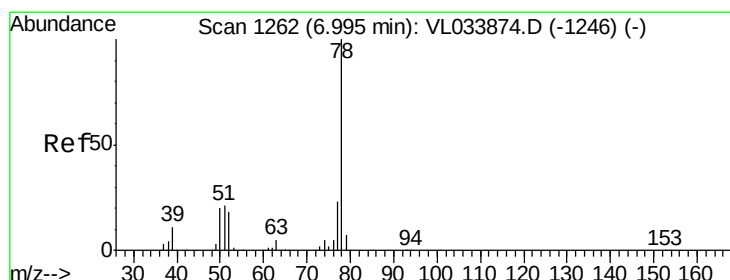
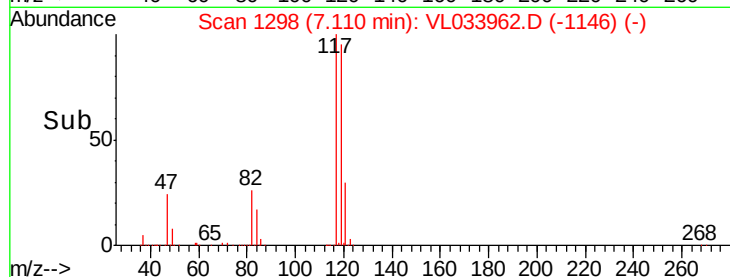
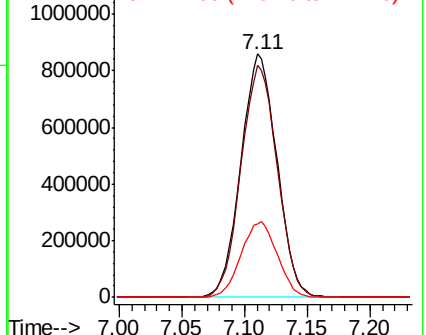
121 30.4 24.0 36.0

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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: 11.389 ppbv

RT: 6.98 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

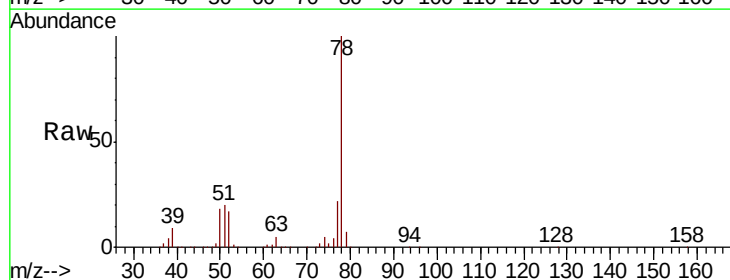
Tgt Ion: 78 Resp: 1744062

Ion Ratio Lower Upper

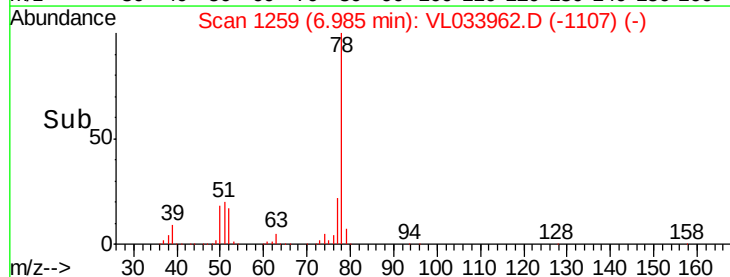
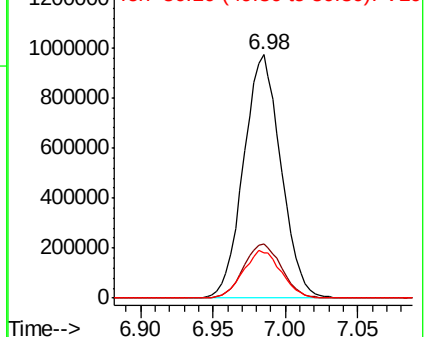
78 100

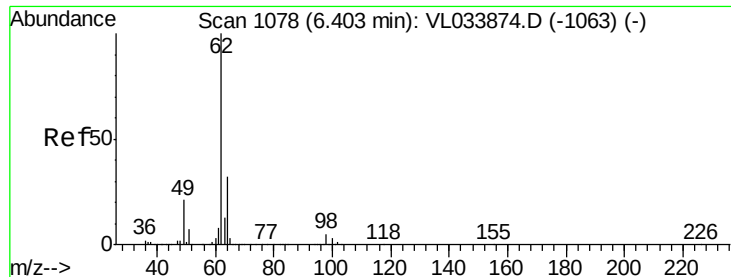
77 22.2 18.2 27.2

50 18.4 15.9 23.9



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





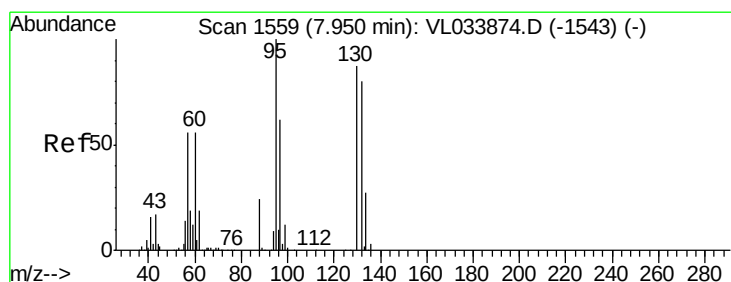
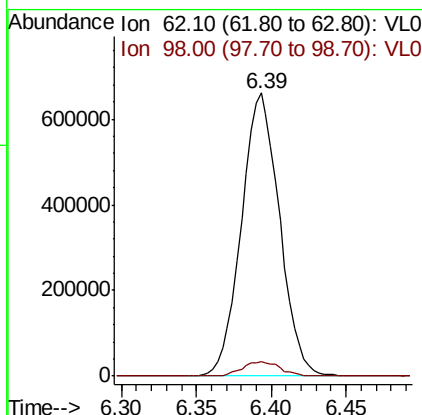
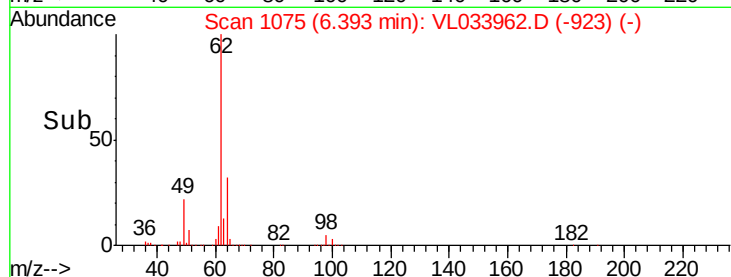
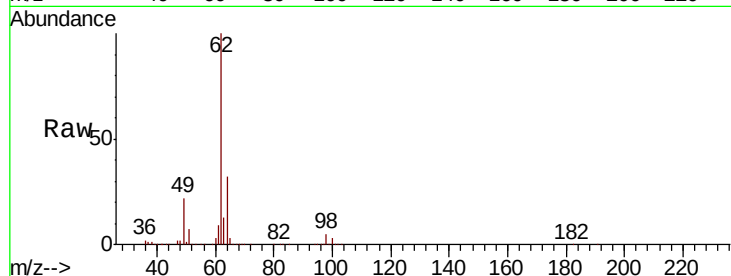
#37
 1,2-Dichloroethane
 Concen: 10.346 ppbv
 RT: 6.39 min Scan# 1075
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 62 Resp: 1171693
 Ion Ratio Lower Upper
 62 100
 98 5.3 4.0 6.0

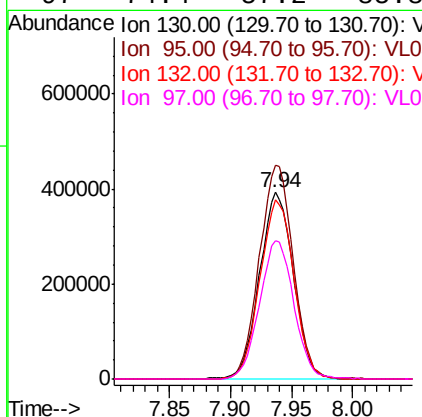
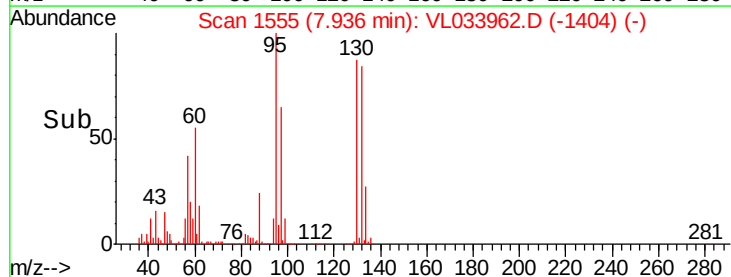
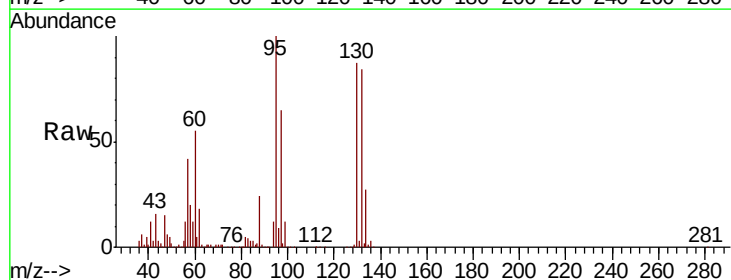
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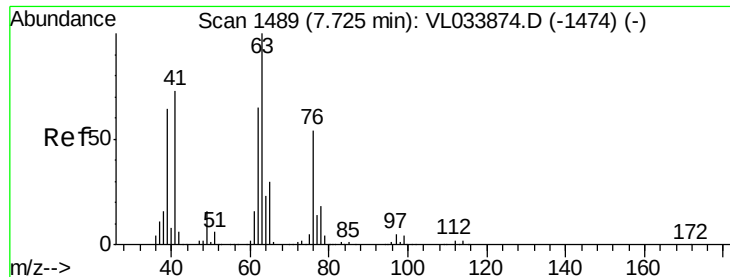
MMDadoda
 6/26/2019 8:16:00 AM



#38
 Trichloroethene
 Concen: 12.755 ppbv
 RT: 7.94 min Scan# 1555
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 130 Resp: 760510
 Ion Ratio Lower Upper
 130 100
 95 114.6 92.0 138.0
 132 95.9 73.8 110.8
 97 74.4 57.2 85.8





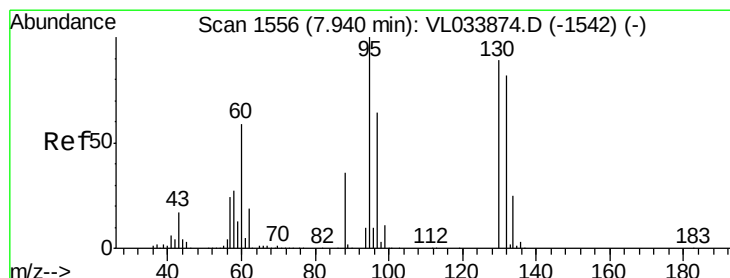
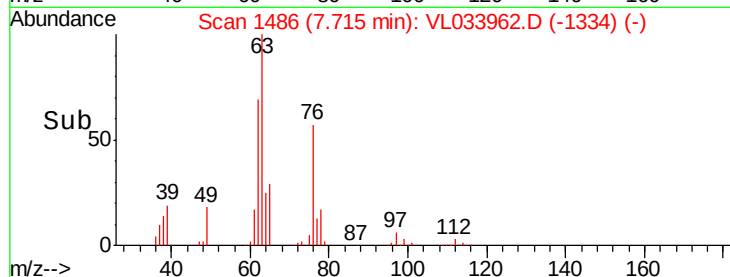
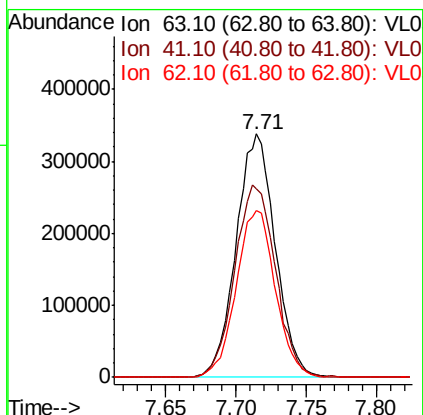
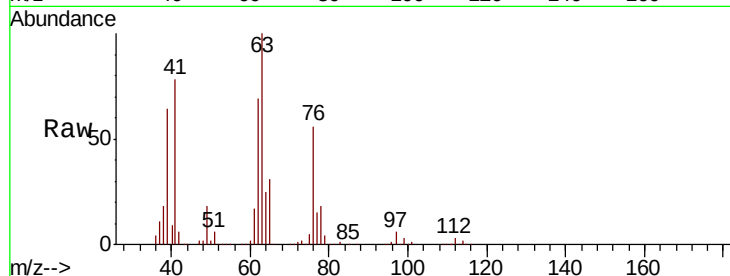
#39
 1,2-Dichloropropane
 Concen: 11.091 ppbv
 RT: 7.71 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
63	100		
41	77.7	58.7	88.1
62	68.7	51.9	77.9

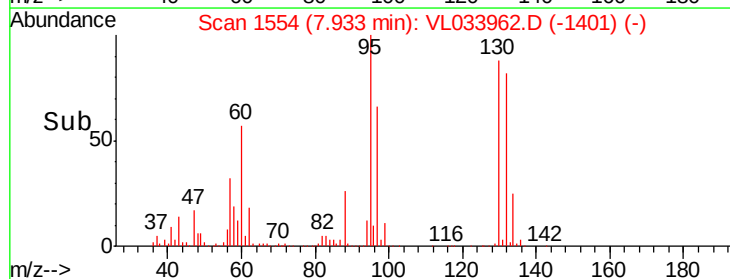
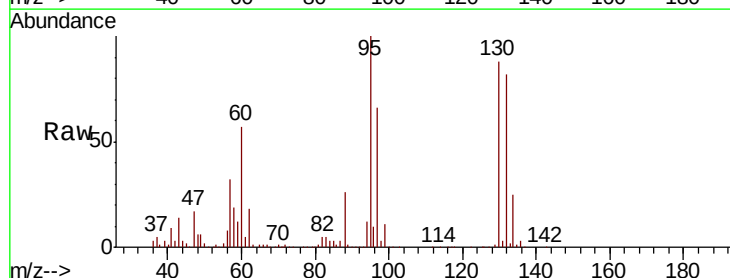
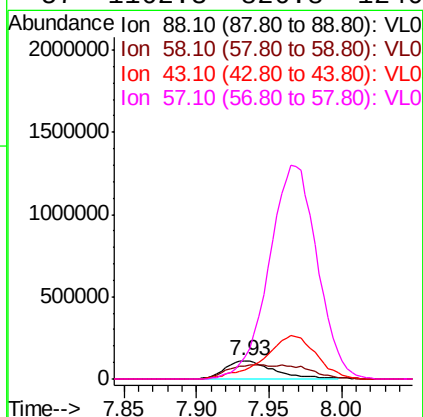
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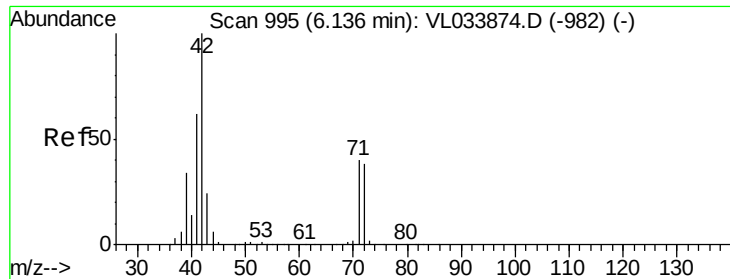
MMDadoda
 6/26/2019 8:16:00 AM



#40
 1,4-Dioxane
 Concen: 10.763 ppbv
 RT: 7.93 min Scan# 1554
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion	Ratio	Lower	Upper
88	100		
58	127.0	100.0	150.0
43	256.5	184.7	277.1
57	1162.3	826.8	1240.2





#41

Tetrahydrofuran

Concen: 11.722 ppbv

RT: 6.13 min Scan# 992

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

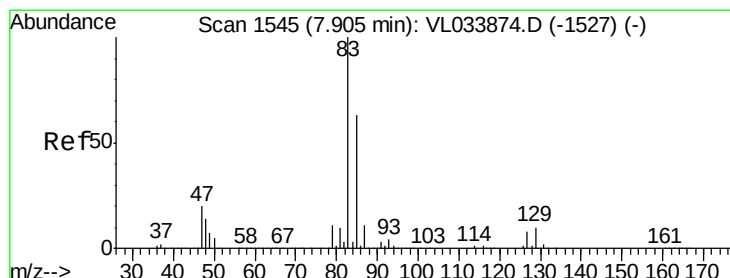
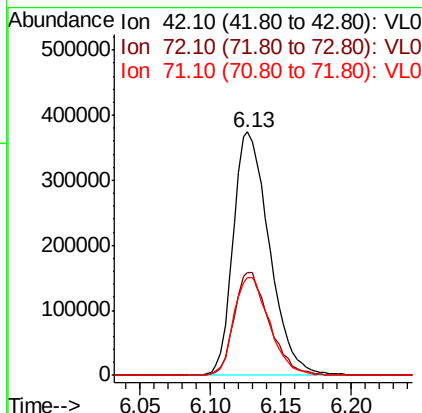
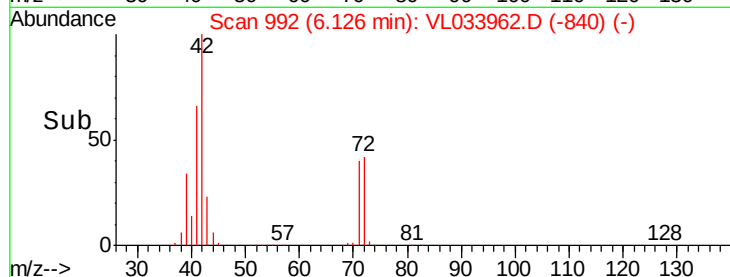
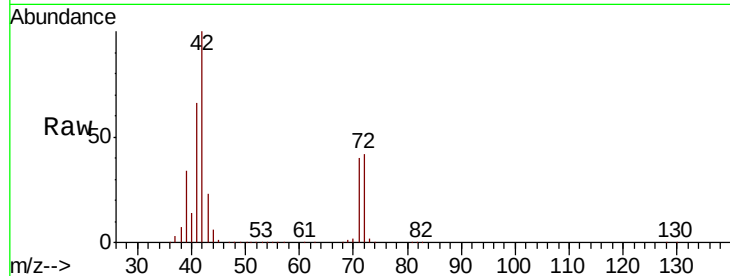
ClientSampleId :

VSTDCCC010EC

Tot Ion:	42	Resp:	672879
Ion	Ratio	Lower	Upper
42	100		
72	41.2	32.2	48.4
71	40.1	31.7	47.5

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#42

Bromodichloromethane

Concen: 10.933 ppbv

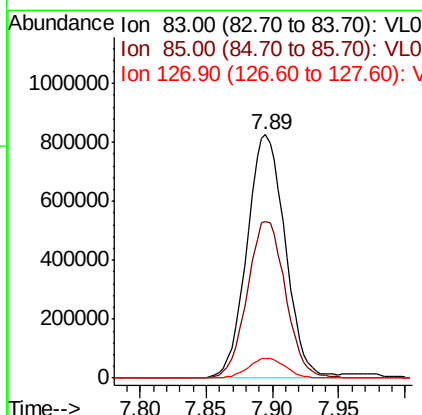
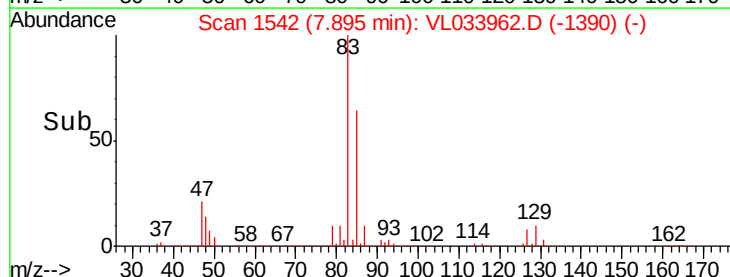
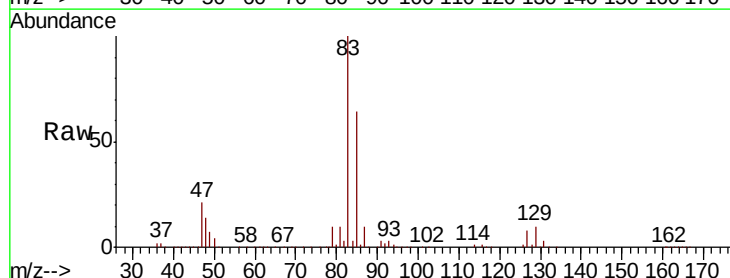
RT: 7.89 min Scan# 1542

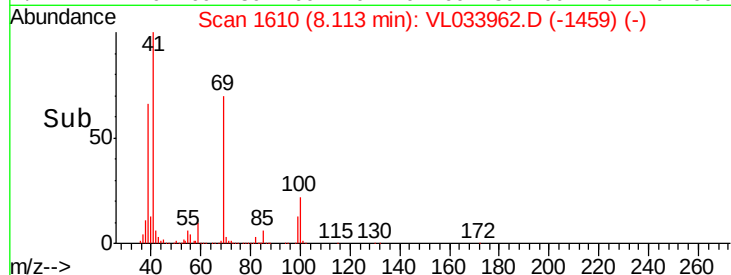
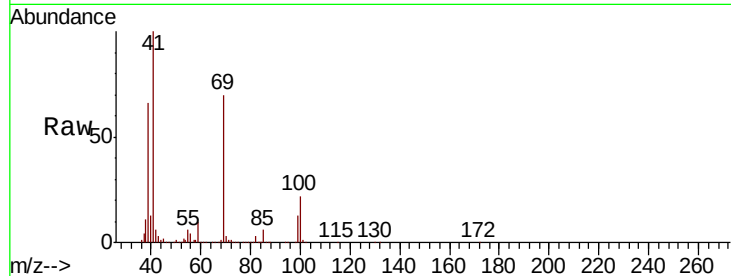
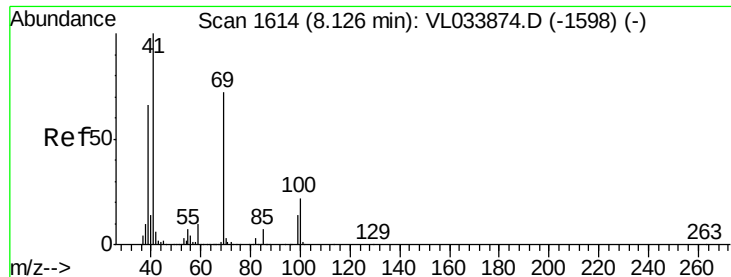
Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion:	83	Resp:	1654688
Ion	Ratio	Lower	Upper
83	100		
85	64.4	50.2	75.2
127	8.2	6.5	9.7





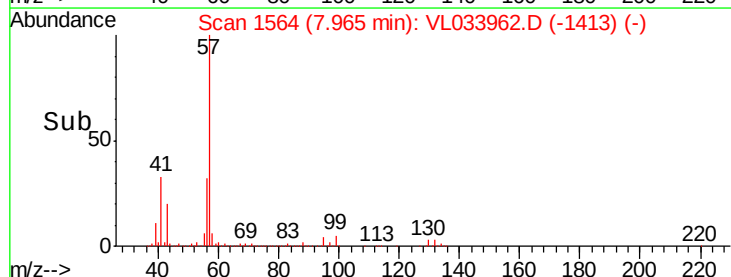
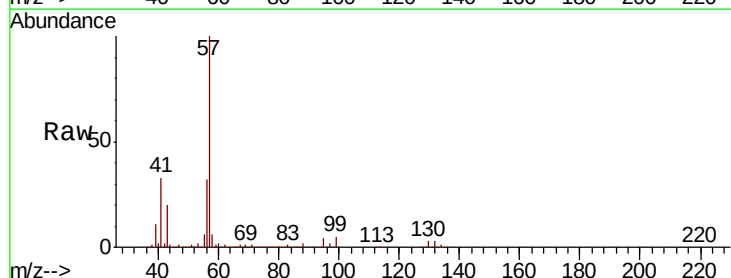
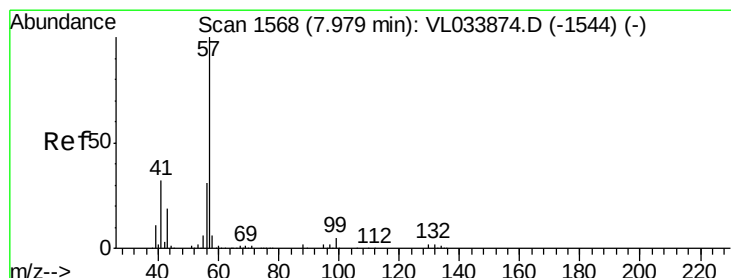
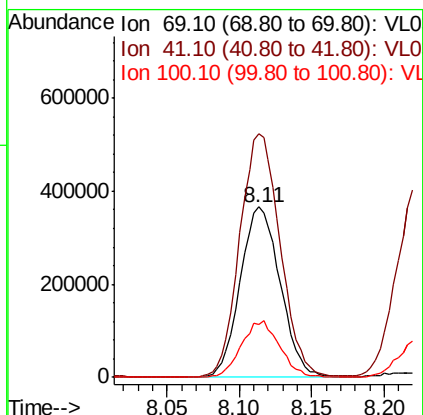
#43
Methyl Methacrylate
Concen: 12.257 ppbv
RT: 8.11 min Scan# 1610
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tot Ion	Ratio	Lower	Upper
69	100		
41	144.7	114.3	171.5
100	31.8	24.8	37.2

Instrument :
MSVOA_L
ClientSampleID :
VSTDCCC010EC

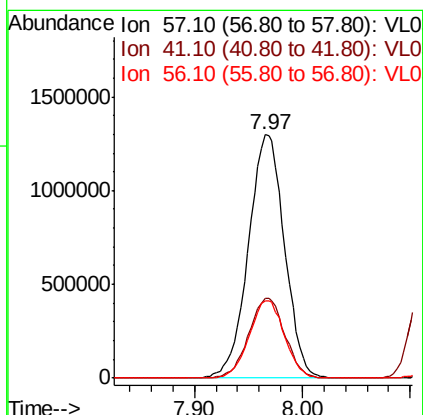
Manual Integrations
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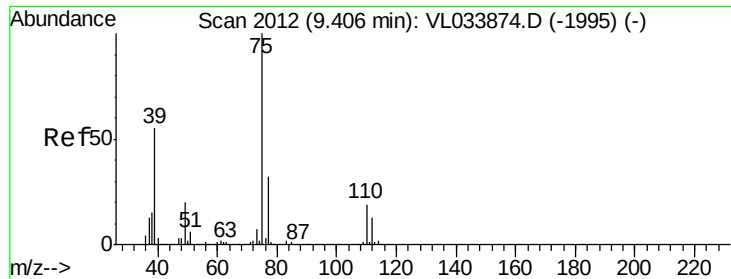
MMDadoda
6/26/2019 8:16:00 AM



#44
2,2,4-Trimethylpentane
Concen: 11.057 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion	Ratio	Lower	Upper
57	100		
41	32.9	26.1	39.1
56	31.1	24.6	36.8





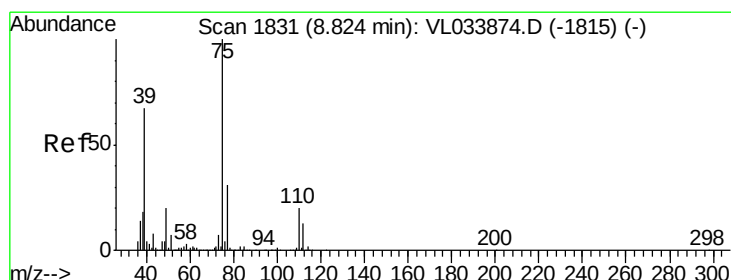
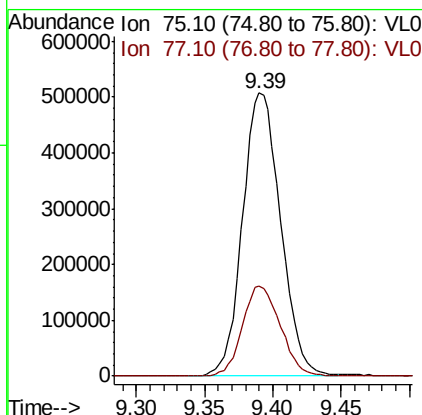
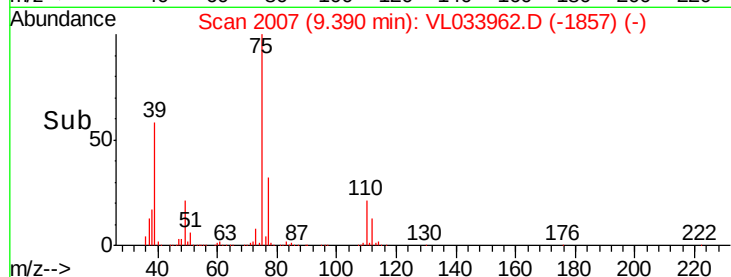
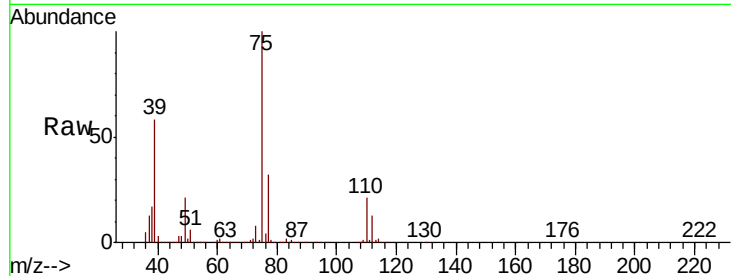
#45
 t-1,3-Dichloropropene
 Concen: 13.082 ppbv
 RT: 9.39 min Scan# 2007
 Delta R.T. -0.02 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion: 75 Resp: 983079
 Ion Ratio Lower Upper
 75 100
 77 31.7 25.4 38.2

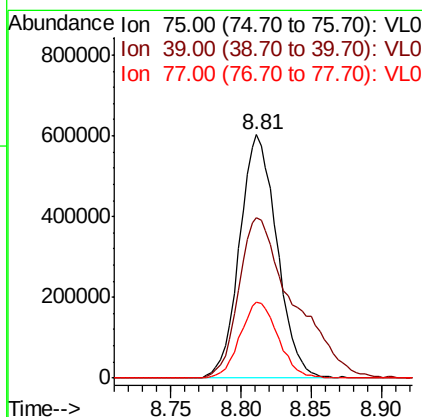
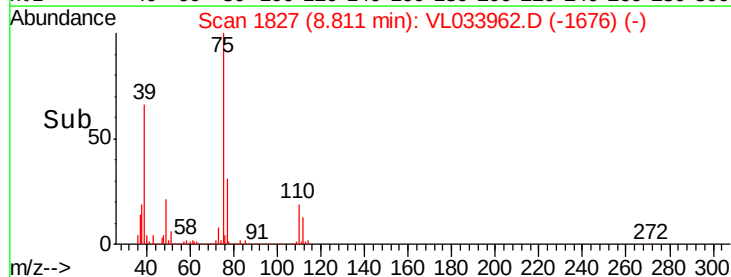
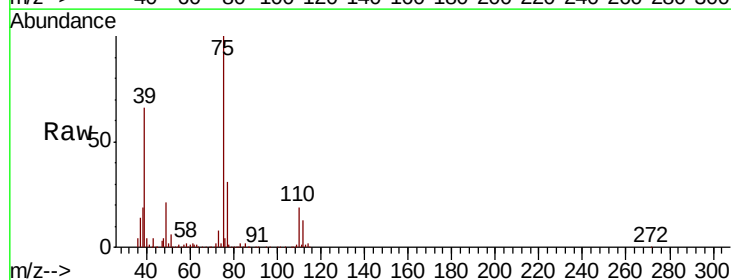
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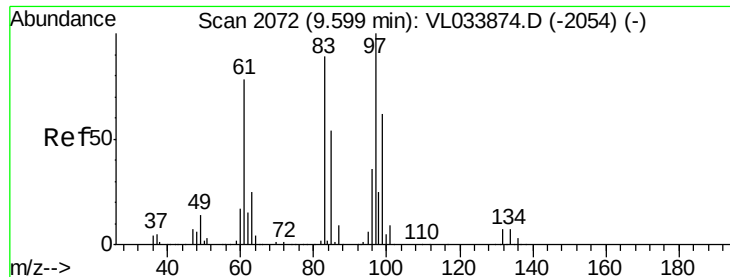
MMDadoda
 6/26/2019 8:16:00 AM



#46
 cis-1,3-Dichloropropene
 Concen: 13.000 ppbv
 RT: 8.81 min Scan# 1827
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 75 Resp: 1119239
 Ion Ratio Lower Upper
 75 100
 39 65.7 53.8 80.8
 77 31.4 24.6 36.8





#47

1,1,2-Trichloroethane

Concen: 10.834 ppbv

RT: 9.59 min Scan# 2069

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 97 Resp: 763318

Ion Ratio Lower Upper

97 100

83 86.0 70.9 106.3

85 55.7 43.0 64.6

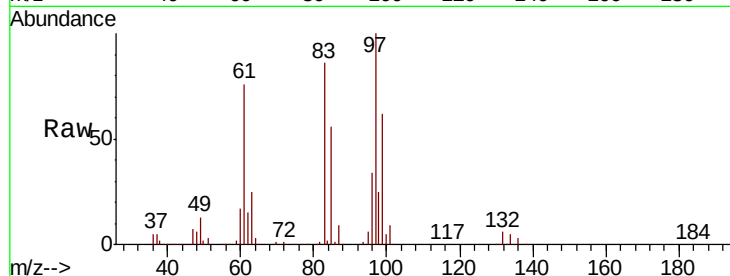
99 62.0 49.3 73.9

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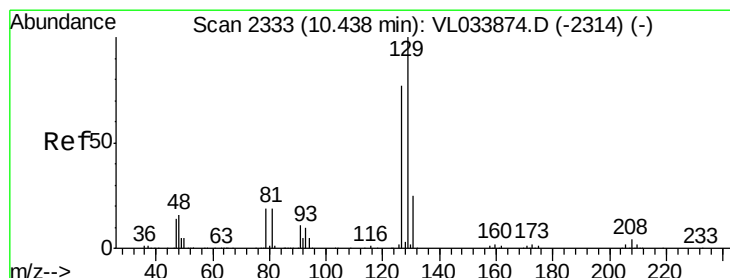
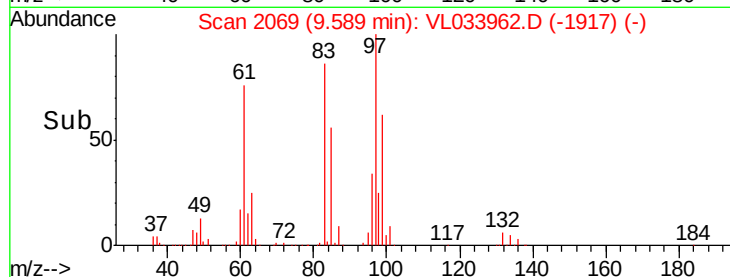
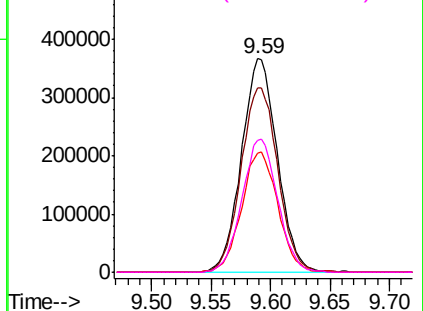


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48

Dibromochloromethane

Concen: 11.343 ppbv

RT: 10.43 min Scan# 2330

Delta R.T. -0.01 min

Lab File: VL033962.D

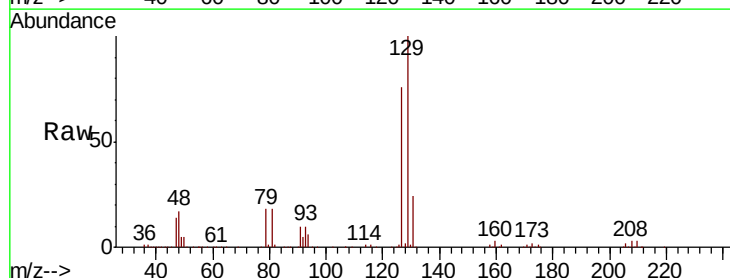
Acq: 25 Jun 2019 8:31

Tgt Ion: 129 Resp: 1436284

Ion Ratio Lower Upper

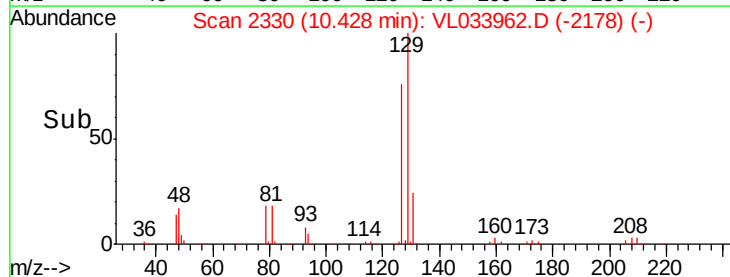
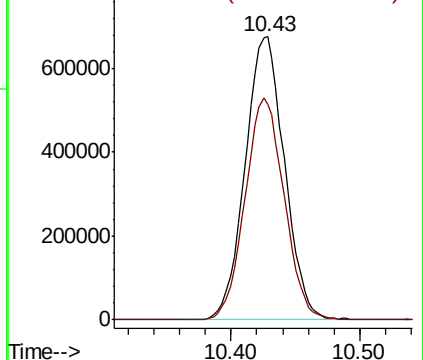
129 100

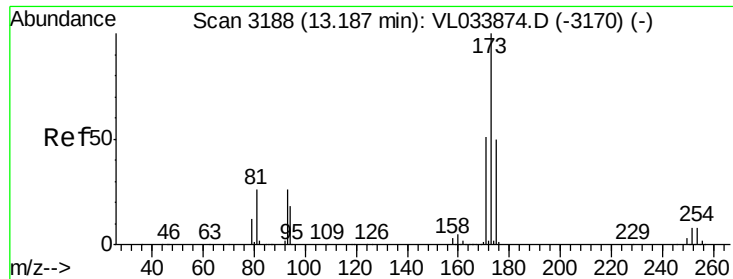
127 78.1 38.6 115.7



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 11.835 ppbv

RT: 13.17 min Scan# 3184

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:173 Resp: 1322870

Ion Ratio Lower Upper

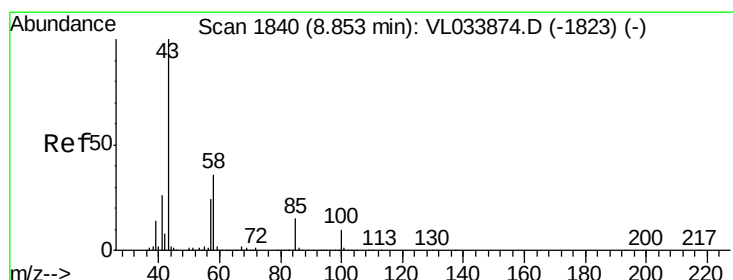
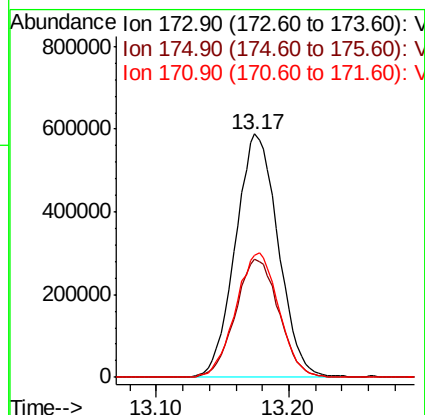
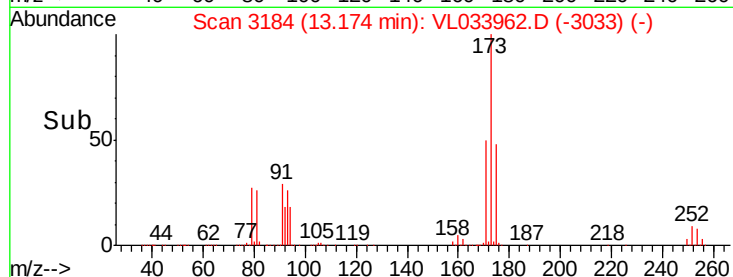
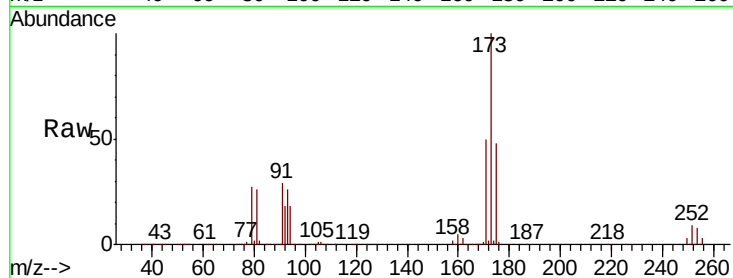
173 100

175 49.5 39.6 59.4

171 51.7 41.8 62.8

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#50

4-Methyl-2-Pentanone

Concen: 11.536 ppbv

RT: 8.85 min Scan# 1838

Delta R.T. -0.01 min

Lab File: VL033962.D

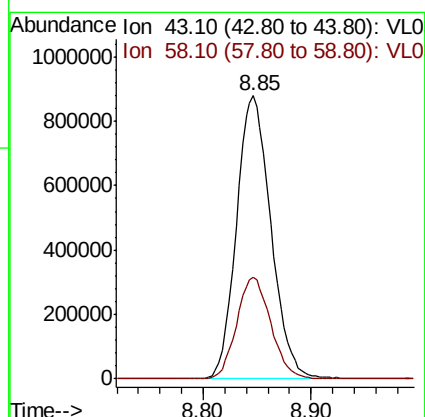
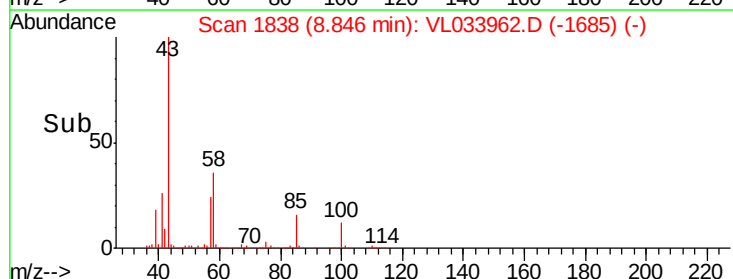
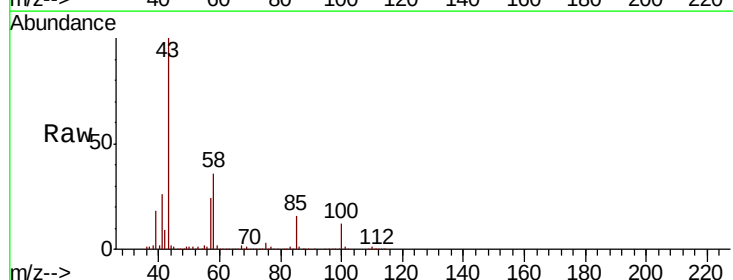
Acq: 25 Jun 2019 8:31

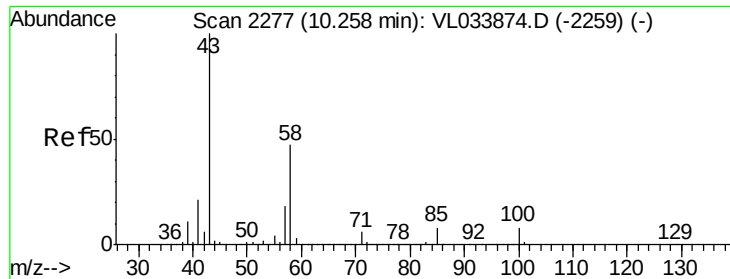
Tgt Ion: 43 Resp: 1945367

Ion Ratio Lower Upper

43 100

58 35.8 28.6 42.8





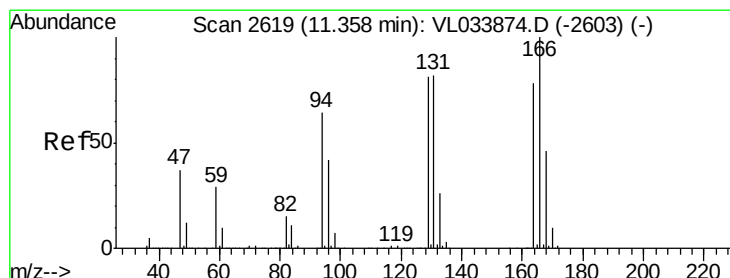
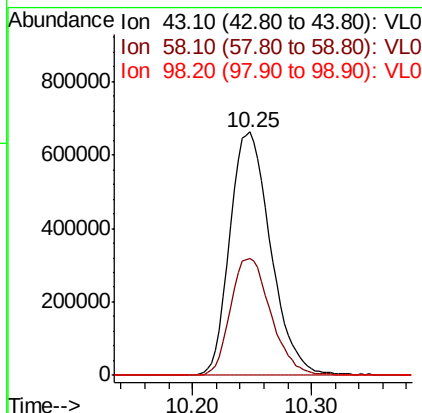
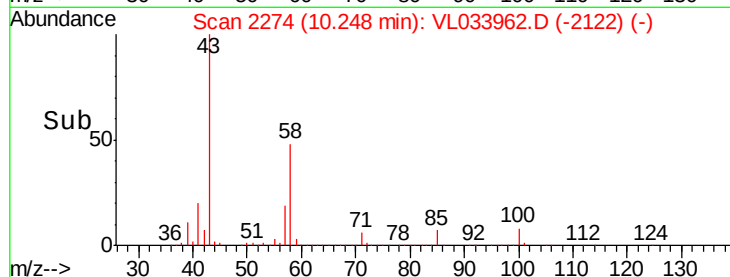
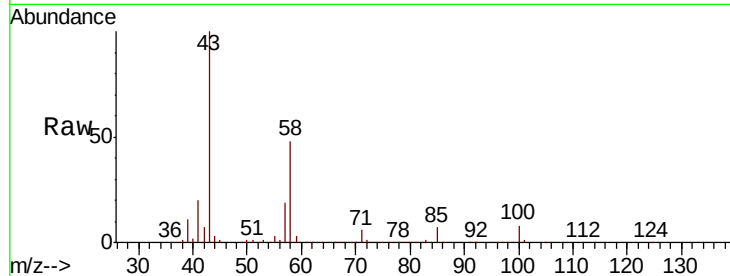
#51
2-Hexanone
Concen: 11.923 ppbv
RT: 10.25 min Scan# 2274
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 43 Resp: 1570138
Ion Ratio Lower Upper
43 100
58 47.8 38.2 57.4
98 0.5 0.2 0.2#

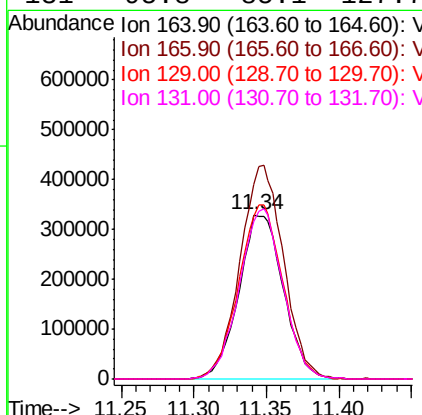
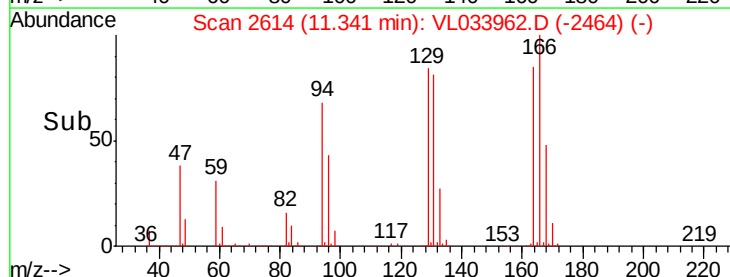
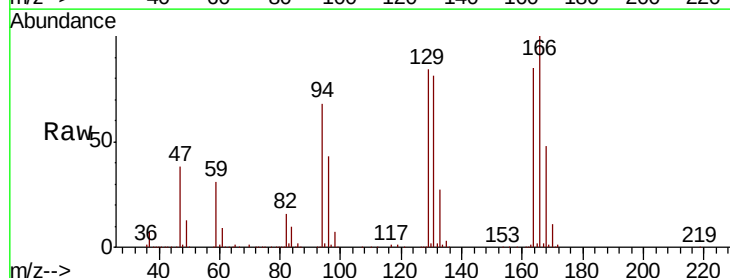
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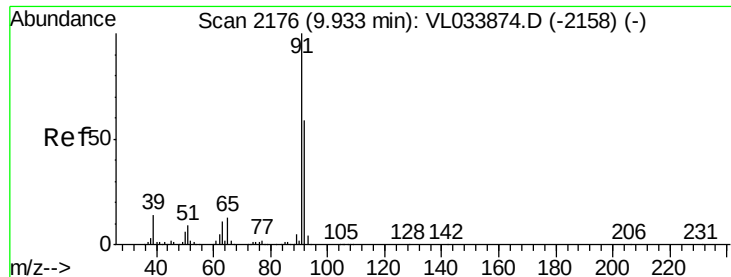
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#52
Tetrachloroethene
Concen: 12.995 ppbv
RT: 11.34 min Scan# 2614
Delta R.T. -0.02 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion:164 Resp: 700225
Ion Ratio Lower Upper
164 100
166 118.1 103.1 154.7
129 99.2 83.9 125.9
131 95.8 85.1 127.7





#53

Toluene

Concen: 12.349 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2092664

Ion Ratio Lower Upper

91 100

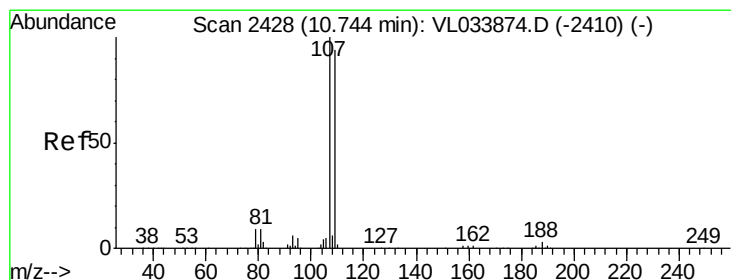
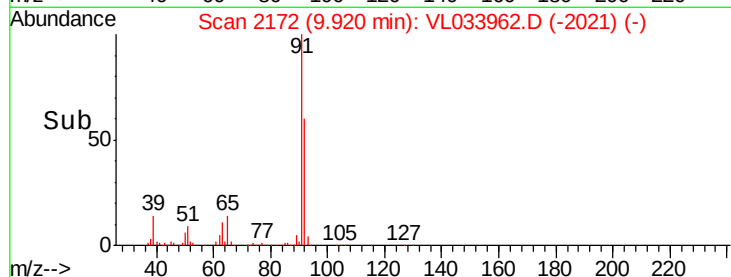
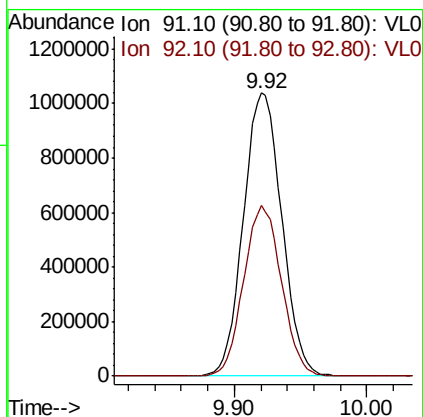
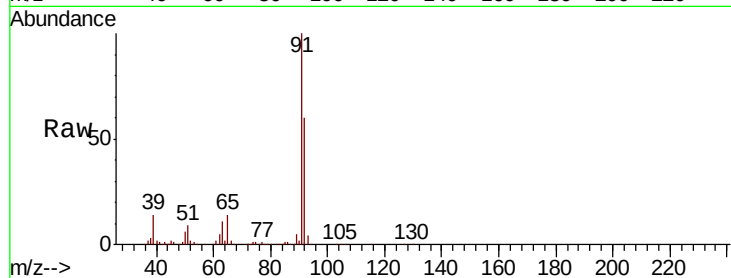
92 59.5 47.0 70.6

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#54

1,2-Dibromoethane

Concen: 11.342 ppbv

RT: 10.73 min Scan# 2425

Delta R.T. -0.01 min

Lab File: VL033962.D

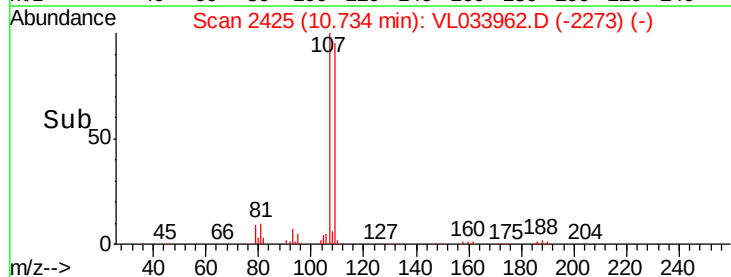
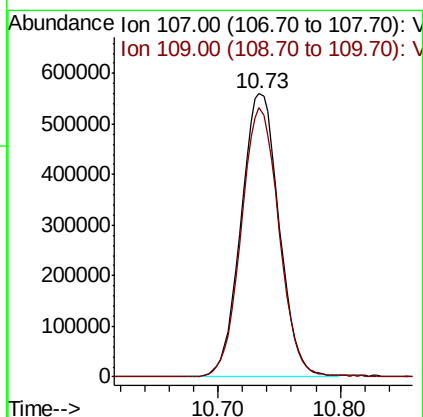
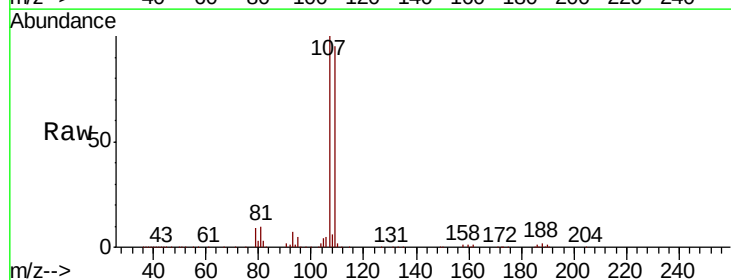
Acq: 25 Jun 2019 8:31

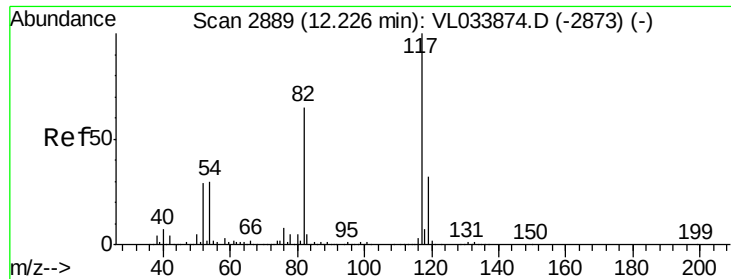
Tgt Ion: 107 Resp: 1204565

Ion Ratio Lower Upper

107 100

109 95.3 74.9 112.3





#55

Chlorobenzene-d5

Concen: 10.000 ppbv m

RT: 12.21 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:117 Resp: 2178902

Ion Ratio Lower Upper

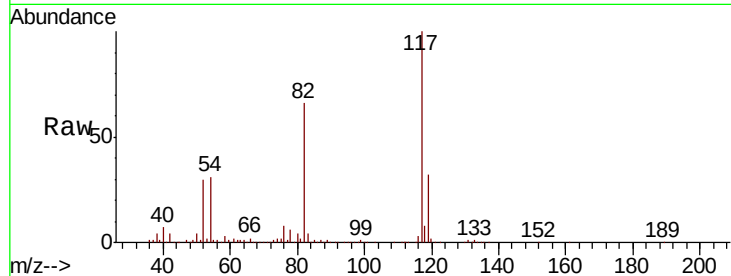
117 100

82 63.4 50.2 75.2

119 28.8 24.8 37.2

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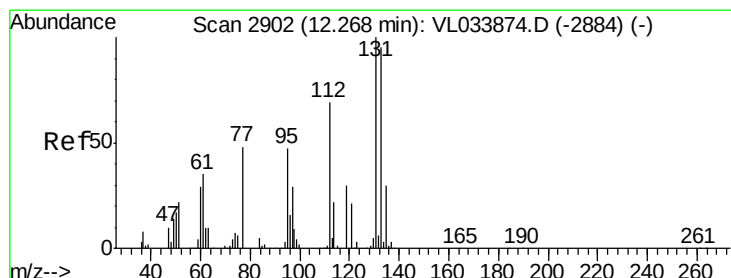
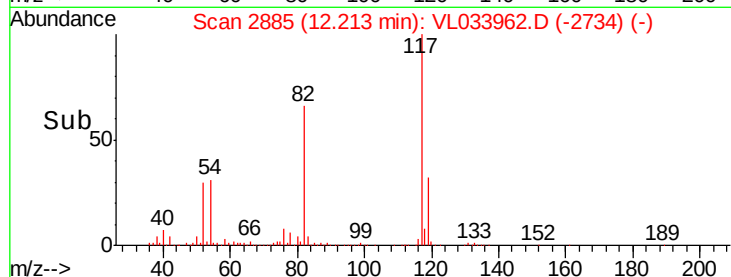
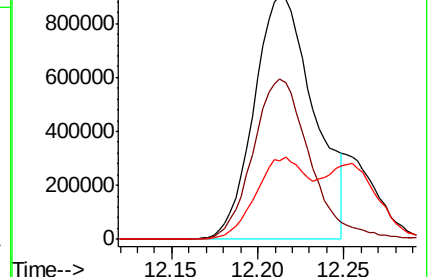
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Abundance Ion 117.10 (116.80 to 117.80): V

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: 10.390 ppbv

RT: 12.25 min Scan# 2898

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

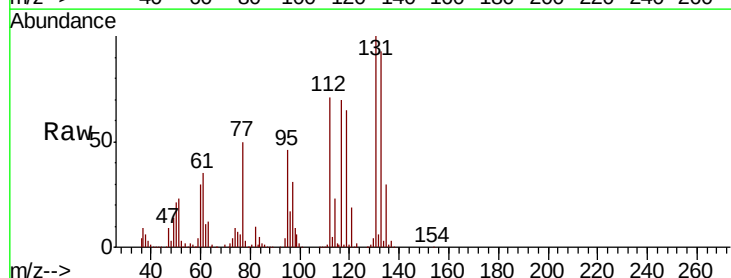
Tgt Ion:131 Resp: 988951

Ion Ratio Lower Upper

131 100

133 95.2 76.5 114.7

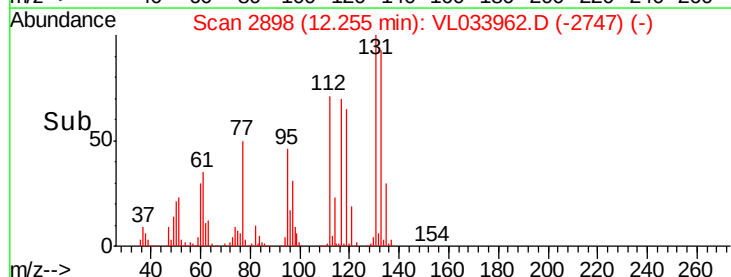
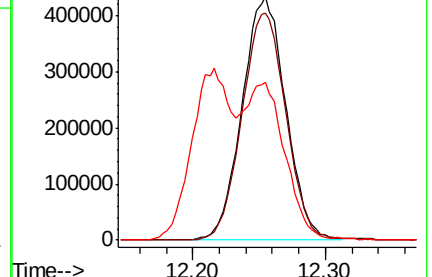
119 66.7 42.6 64.0#

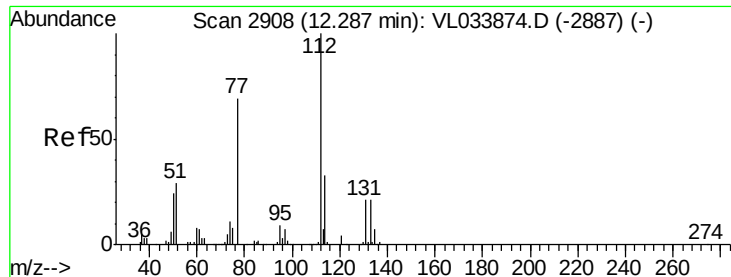


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





#57

Chlorobenzene

Concen: 10.292 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:112 Resp: 1679579

Ion Ratio Lower Upper

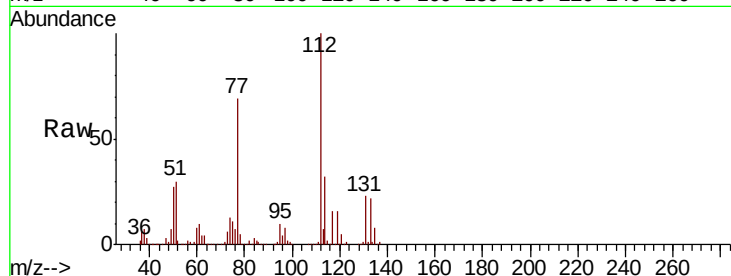
112 100

77 68.0 55.8 83.6

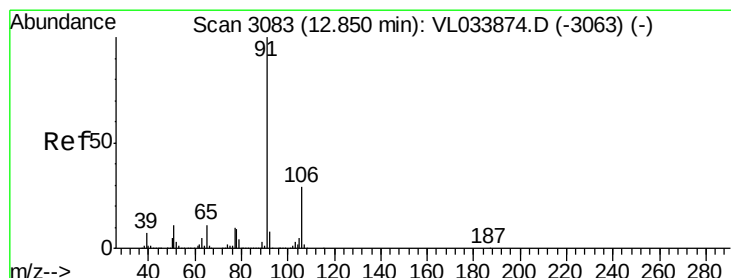
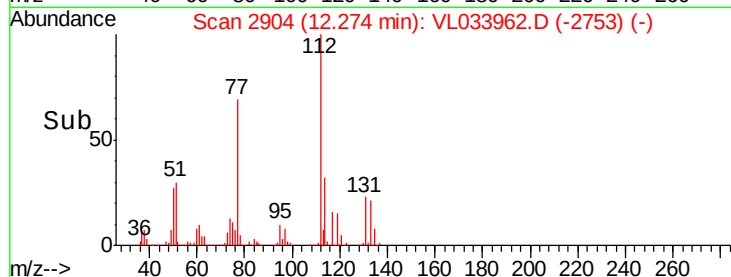
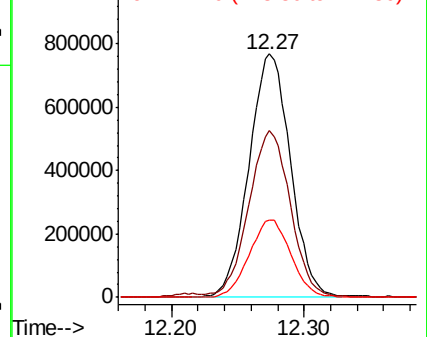
114 31.9 29.8 36.4

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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: 11.889 ppbv

RT: 12.84 min Scan# 3079

Delta R.T. -0.01 min

Lab File: VL033962.D

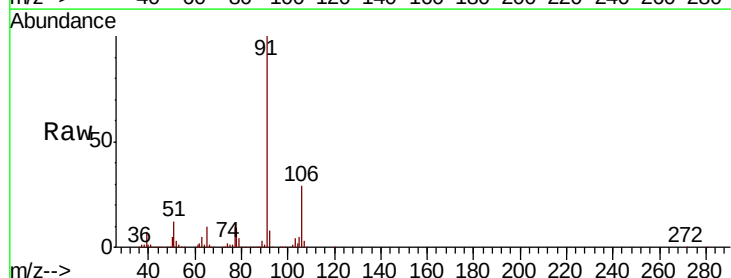
Acq: 25 Jun 2019 8:31

Tgt Ion: 91 Resp: 2920661

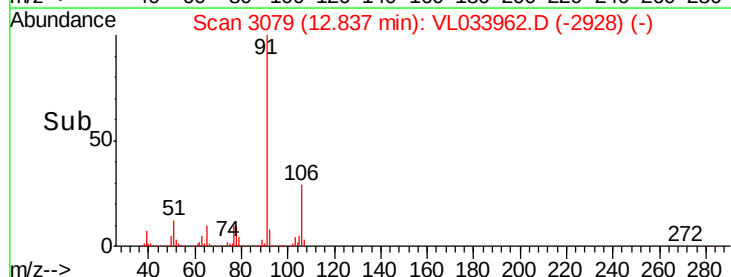
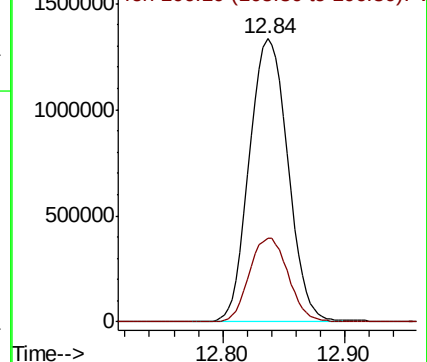
Ion Ratio Lower Upper

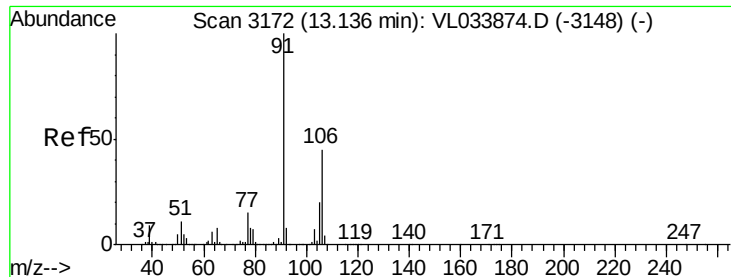
91 100

106 29.4 23.0 34.6



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





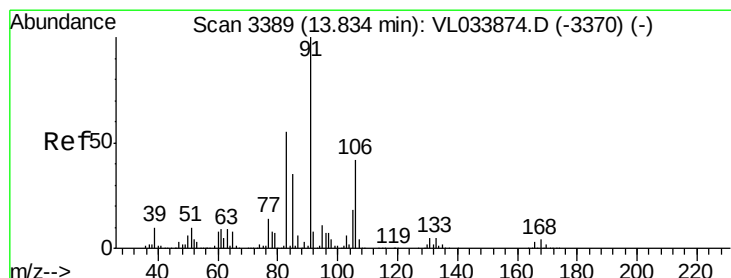
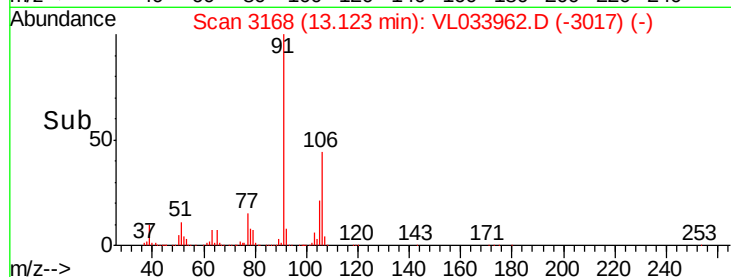
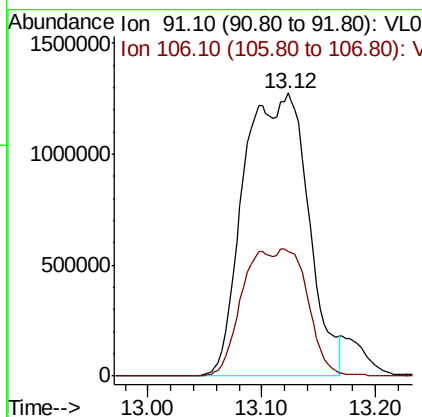
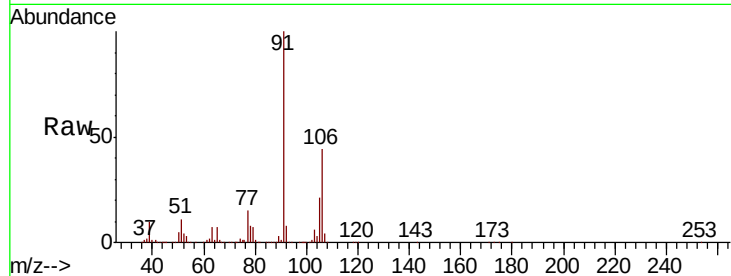
#59
m/p-Xylene
Concen: 22.476 ppbv m
RT: 13.12 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Instrument :
MSVOA_L
ClientSampleId :
VSTDCCC010EC

Tot Ion: 91 Resp: 5020936
Ion Ratio Lower Upper
91 100
106 44.9 35.8 53.8

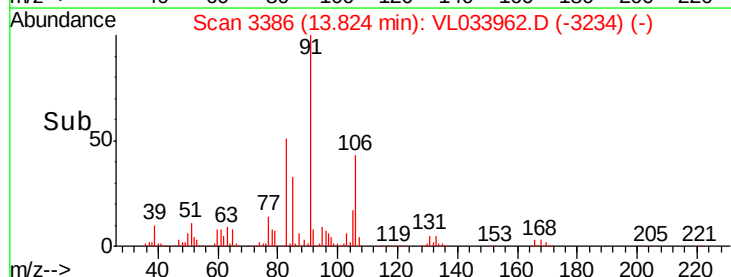
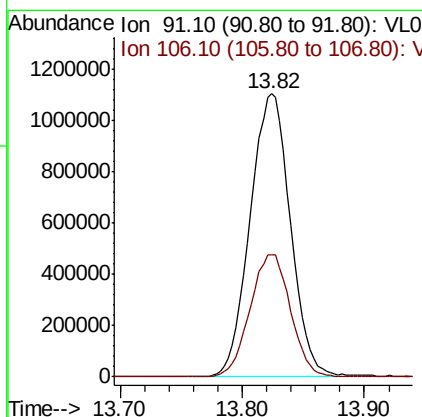
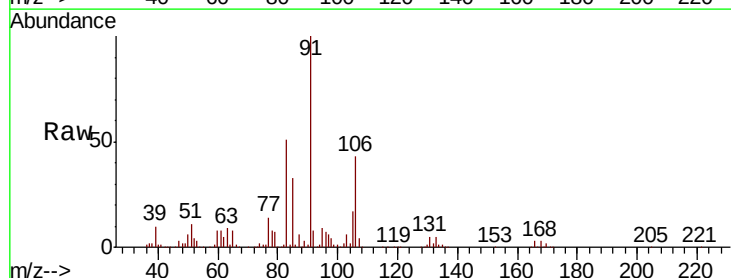
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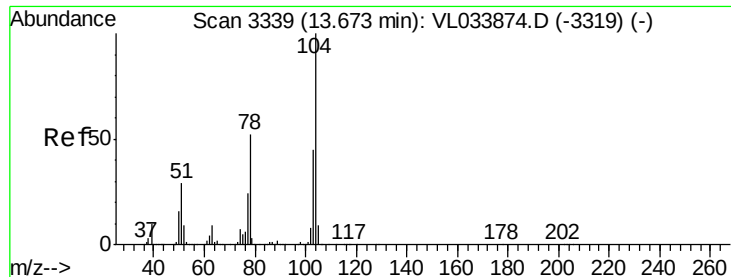
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#60
o-Xylene
Concen: 10.922 ppbv
RT: 13.82 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL033962.D
Acq: 25 Jun 2019 8:31

Tgt Ion: 91 Resp: 2519069
Ion Ratio Lower Upper
91 100
106 43.8 21.7 65.1





#61

Stvrene

Concen: 12.248 ppbv

RT: 13.66 min Scan# 3335

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:104 Resp: 1828247

Ion Ratio Lower Upper

104 100

78 54.4 43.4 65.0

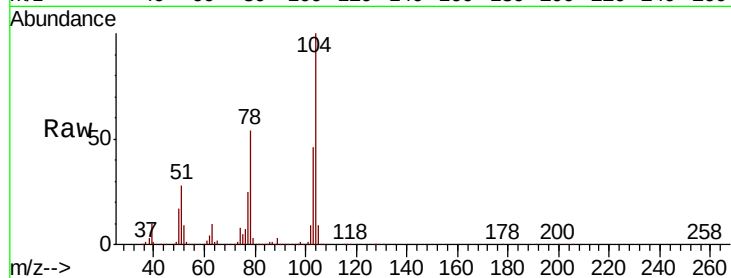
103 47.1 37.6 56.4

Manual Integrations

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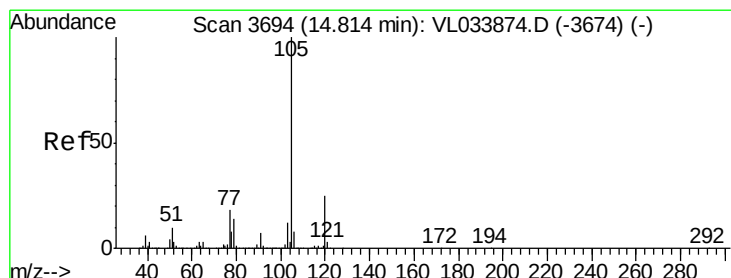
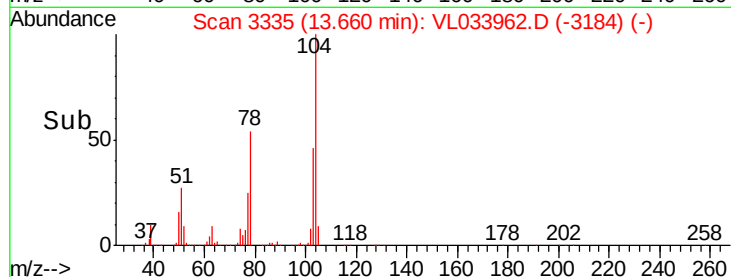
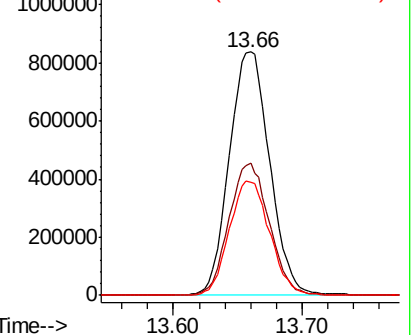
6/26/2019 8:16:00 AM



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: 10.937 ppbv

RT: 14.80 min Scan# 3690

Delta R.T. -0.01 min

Lab File: VL033962.D

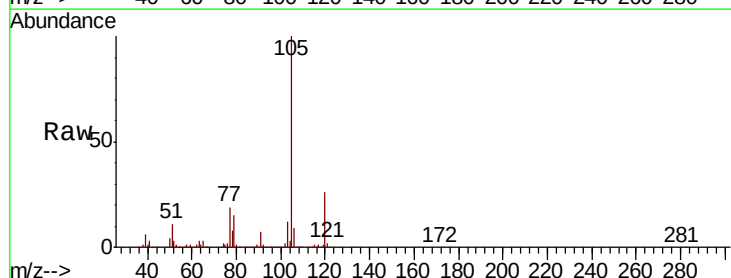
Acq: 25 Jun 2019 8:31

Tgt Ion:105 Resp: 3400017

Ion Ratio Lower Upper

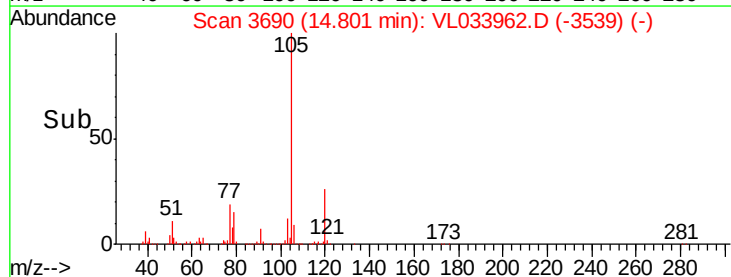
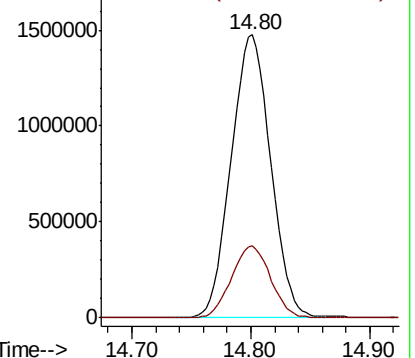
105 100

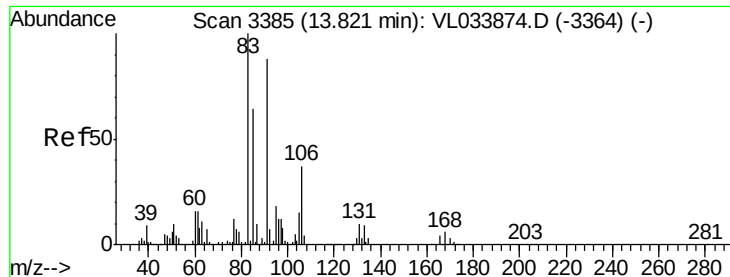
120 25.3 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





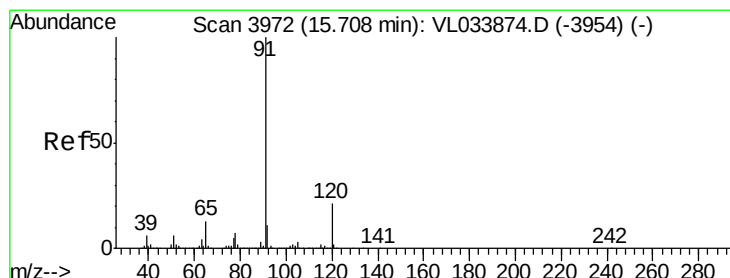
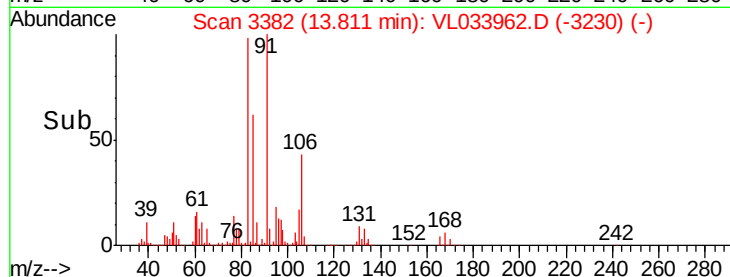
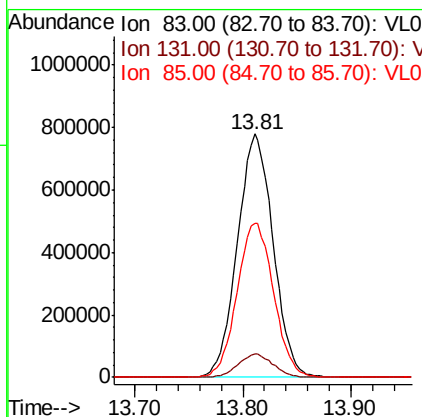
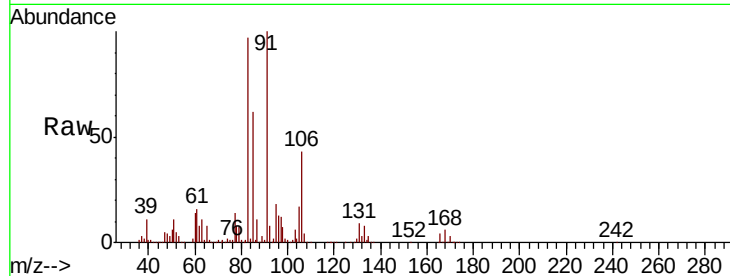
#63
 1,1,2,2-Tetrachloroethane
 Concen: 10.310 ppbv
 RT: 13.81 min Scan# 3382
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	83	Resp	1789954
Ion Ratio	100	Lower	Upper
83	100		
131	9.6	4.8	14.4
85	64.9	32.1	96.3

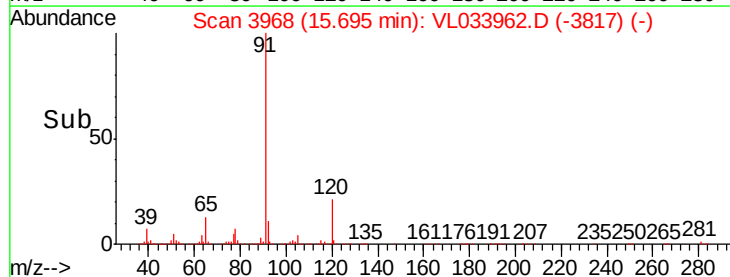
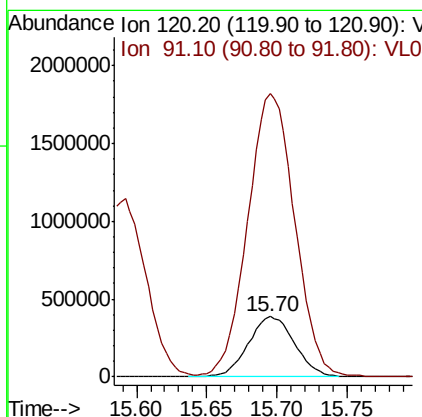
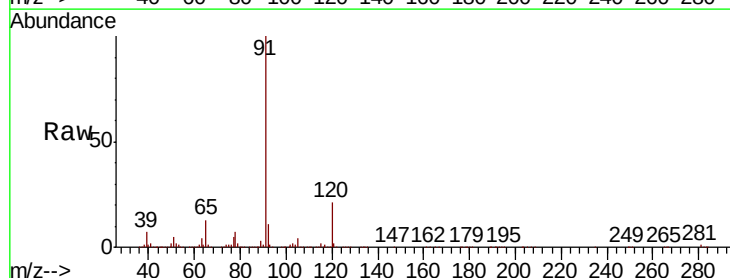
Manual Integrations
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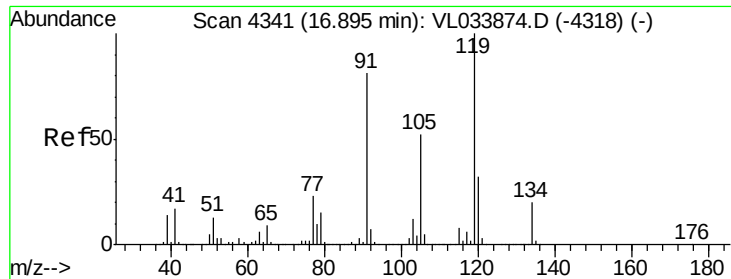
MMDadoda
 6/26/2019 8:16:00 AM



#64
 n-propylbenzene
 Concen: 11.126 ppbv
 RT: 15.70 min Scan# 3968
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion	120	Resp	885725
Ion Ratio	100	Lower	Upper
120	100		
91	480.6	387.0	580.6





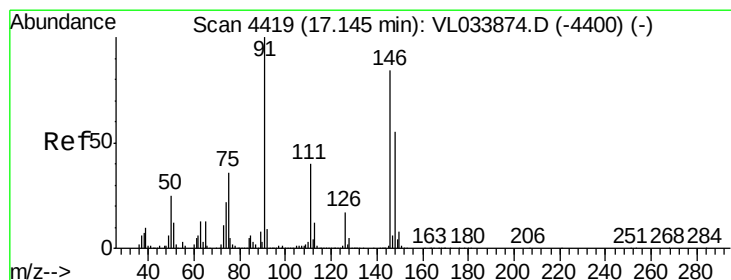
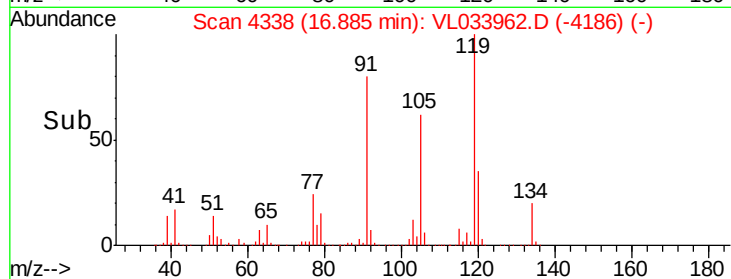
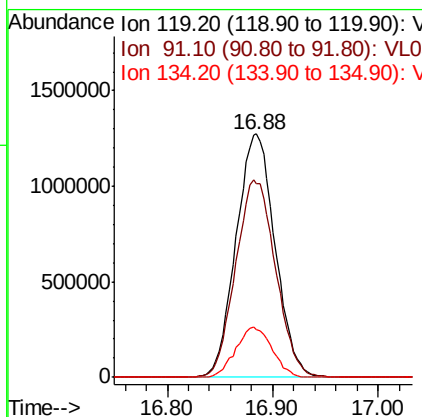
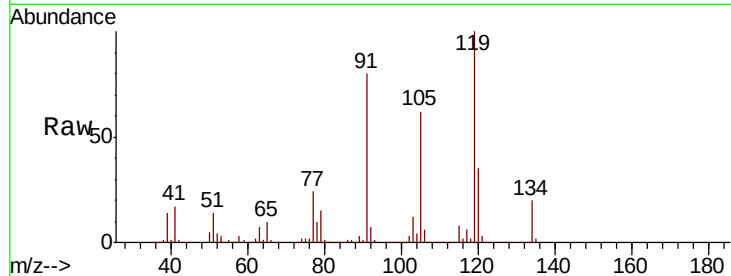
#65
 tert-Butylbenzene
 Concen: 11.344 ppbv
 RT: 16.88 min Scan# 4338
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:119 Resp: 3263118
 Ion Ratio Lower Upper
 119 100
 91 83.6 66.6 100.0
 134 19.3 15.5 23.3

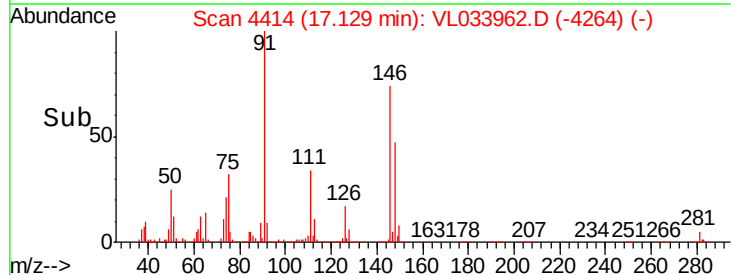
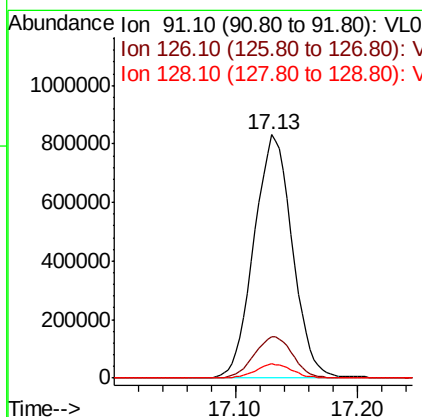
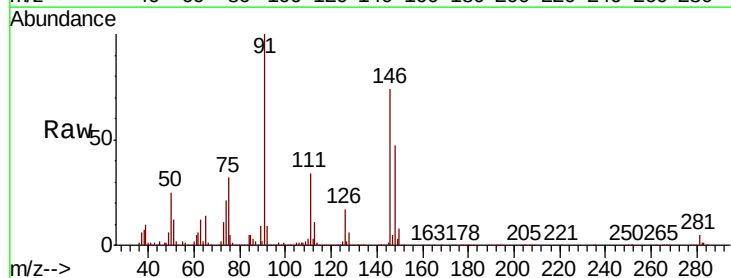
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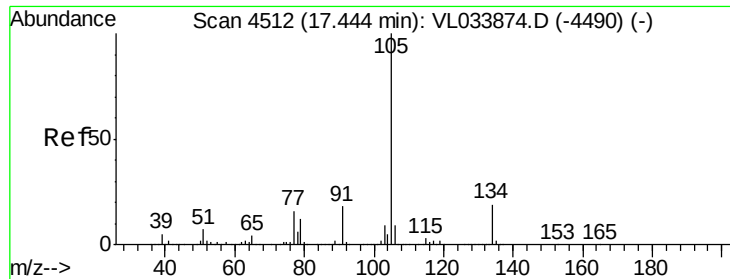
MMDadoda
 6/26/2019 8:16:00 AM



#66
 Benzyl Chloride
 Concen: 12.443 ppbv
 RT: 17.13 min Scan# 4414
 Delta R.T. -0.02 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion: 91 Resp: 1813884
 Ion Ratio Lower Upper
 91 100
 126 17.2 13.8 20.6
 128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 11.017 ppbv

RT: 17.43 min Scan# 4508

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 105 Resp: 4445672

Ion Ratio Lower Upper

105 100

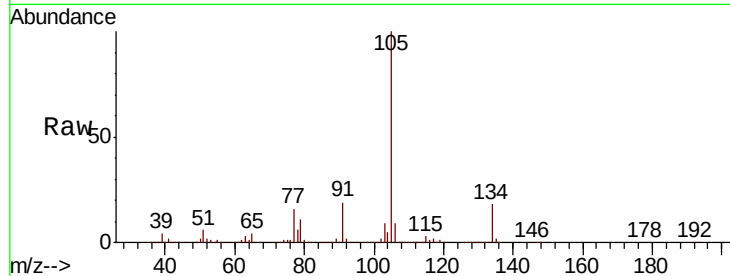
134 18.2 14.6 22.0

Manual Integrations

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6/26/2019 8:16:00 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.43

2000000

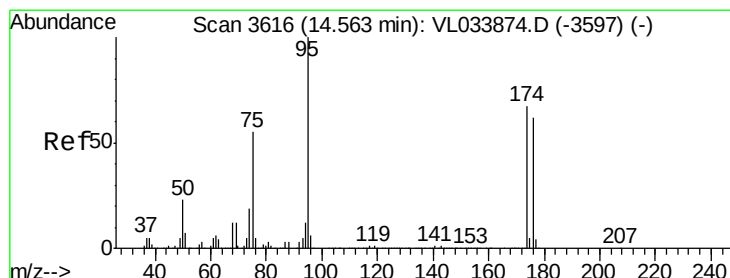
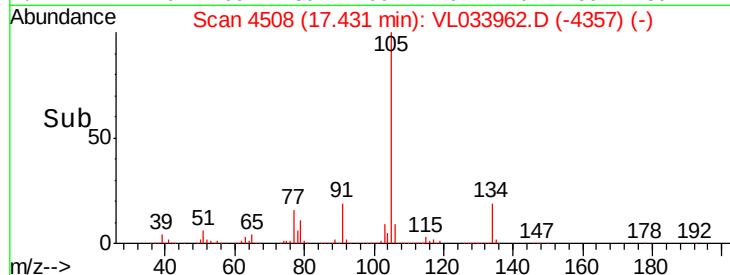
1500000

1000000

500000

0

Time--> 17.30 17.40 17.50



#68

1-Bromo-4-Fluorobenzene

Concen: 9.575 ppbv

RT: 14.55 min Scan# 3612

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

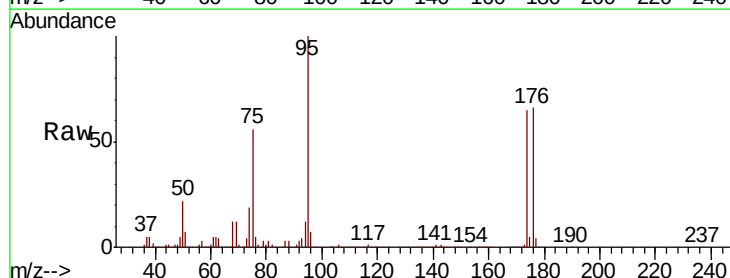
Tgt Ion: 95 Resp: 1713615

Ion Ratio Lower Upper

95 100

174 67.5 54.0 81.0

175 5.0 3.8 5.8



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

14.55

1000000

800000

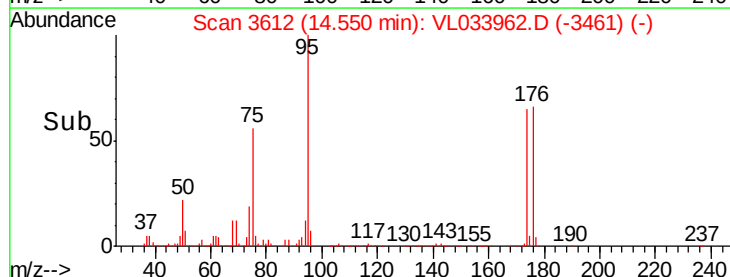
600000

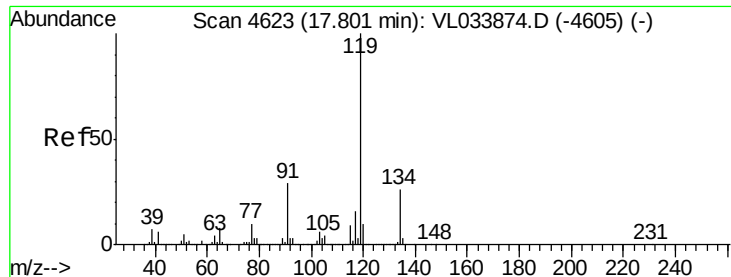
400000

200000

0

Time--> 14.50 14.60





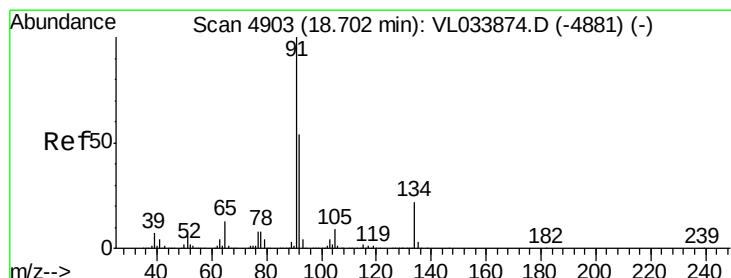
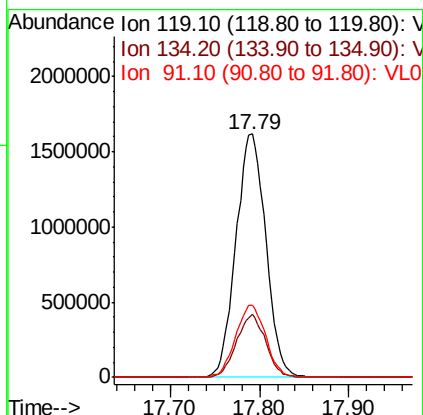
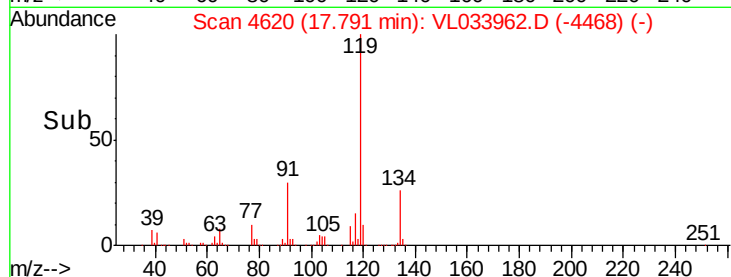
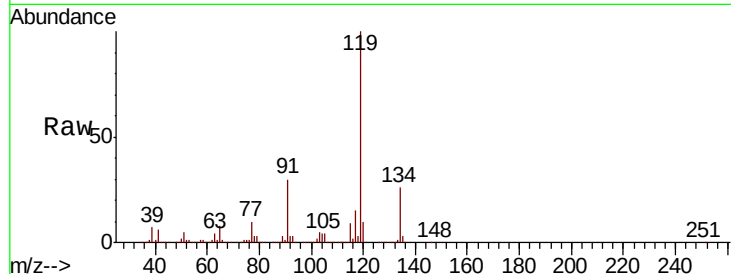
#69
 p-Isopropyltoluene
 Concen: 11.208 ppbv
 RT: 17.79 min Scan# 4620
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
119	100		
134	25.1	20.3	30.5
91	29.8	23.8	35.6

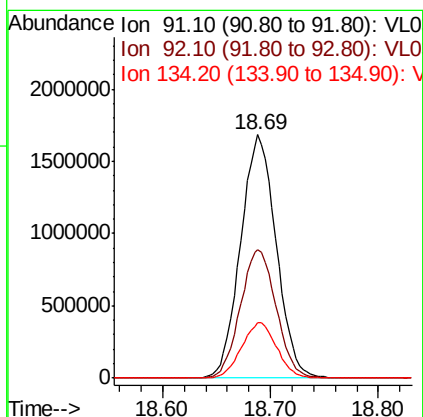
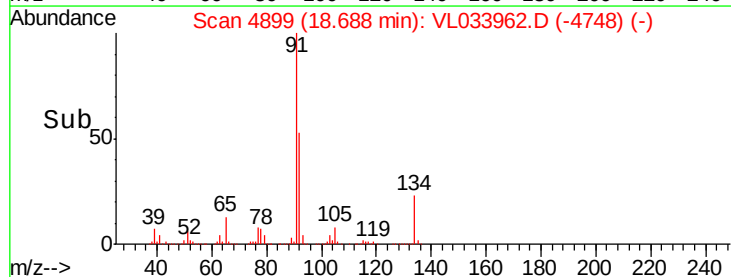
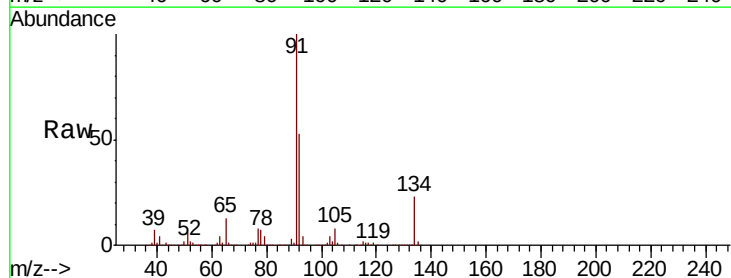
Manual Integrations
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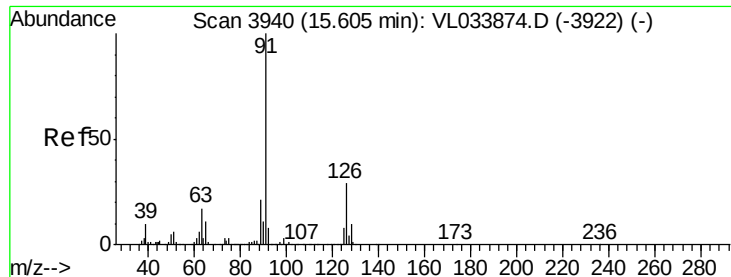
MMDadoda
 6/26/2019 8:16:00 AM



#70
 n-Butylbenzene
 Concen: 10.491 ppbv
 RT: 18.69 min Scan# 4899
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.3	42.5	63.7
134	22.5	17.8	26.6





#71

2-Chlorotoluene

Concen: 11.322 ppbv

RT: 15.59 min Scan# 3936

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion: 91 Resp: 2592864

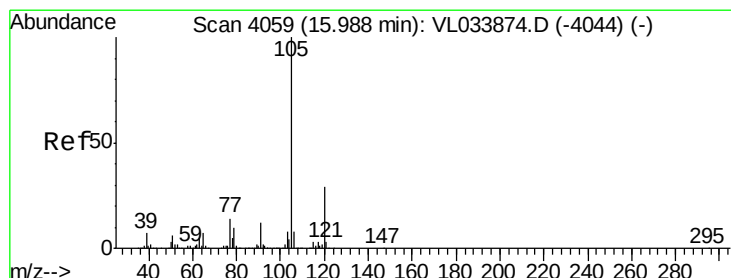
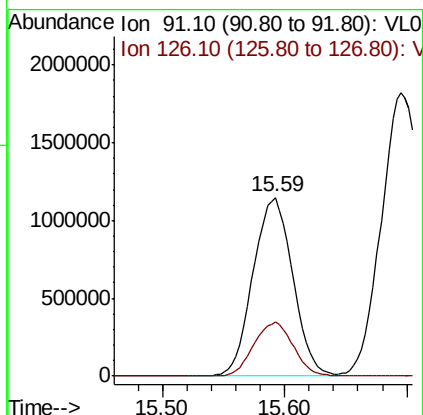
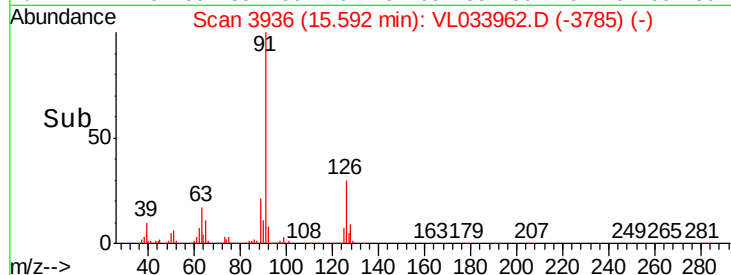
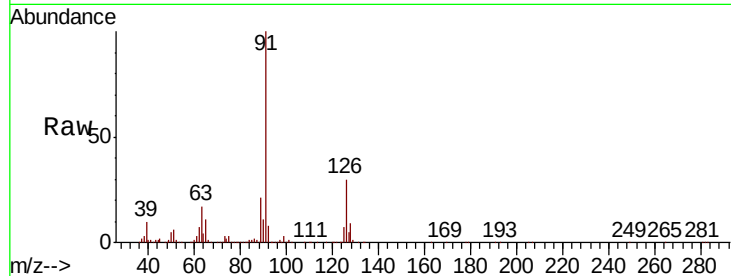
Ion Ratio Lower Upper

91 100

126 30.1 12.0 48.2

Manual Integrations
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#72

4-Ethyltoluene

Concen: 11.654 ppbv

RT: 15.97 min Scan# 4055

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion: 105 Resp: 3058754

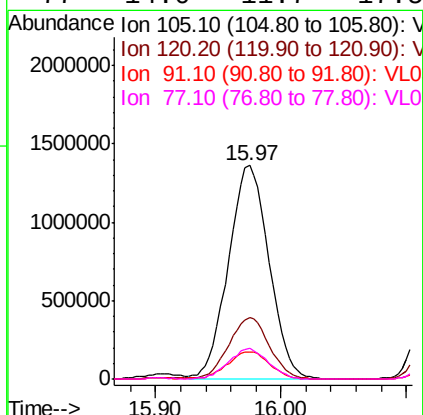
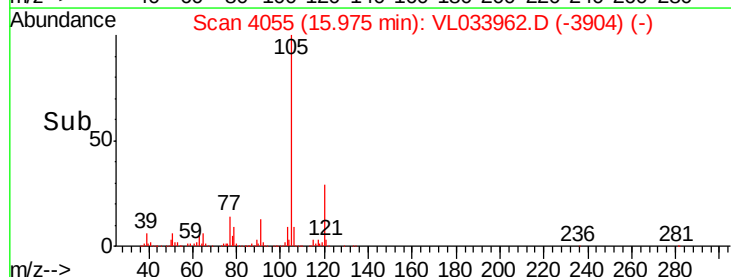
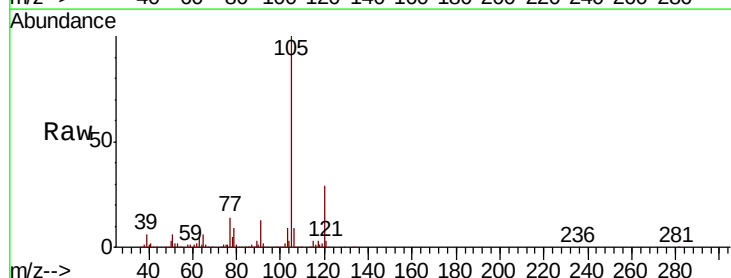
Ion Ratio Lower Upper

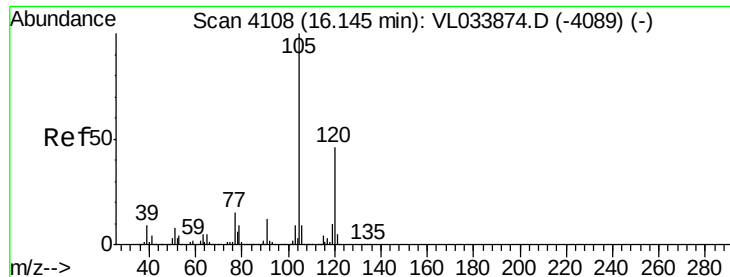
105 100

120 29.4 23.5 35.3

91 13.2 10.4 15.6

77 14.0 11.7 17.5





#73

1,3,5-Trimethylbenzene

Concen: 11.292 ppbv

RT: 16.13 min Scan# 4104

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:105 Resp: 2919577

Ion Ratio Lower Upper

105 100

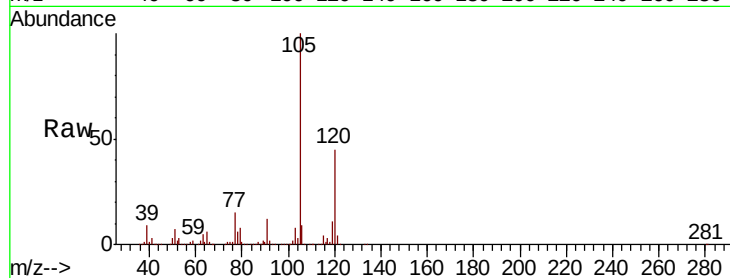
120 45.3 37.1 55.7

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

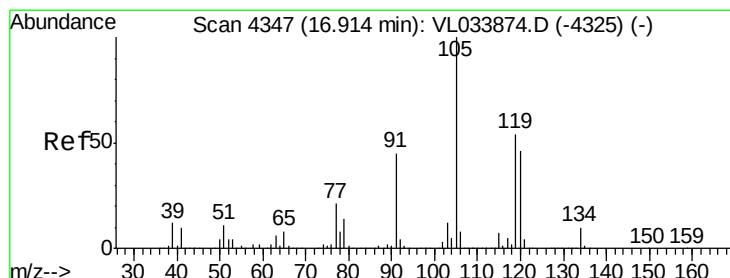
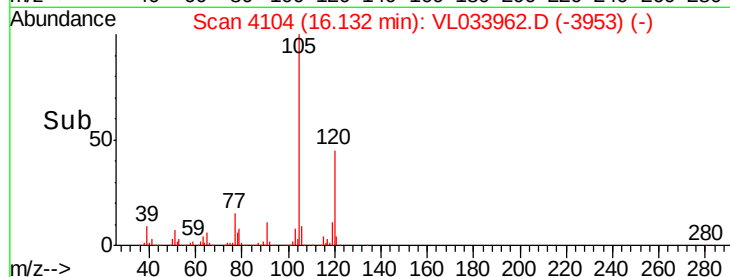
1000000

500000

0

16.00 16.10 16.20

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 10.583 ppbv

RT: 16.90 min Scan# 4343

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Tgt Ion:105 Resp: 3153748

Ion Ratio Lower Upper

105 100

120 48.3 36.7 55.1

91 47.2 35.8 53.8

77 21.9 16.9 25.3

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

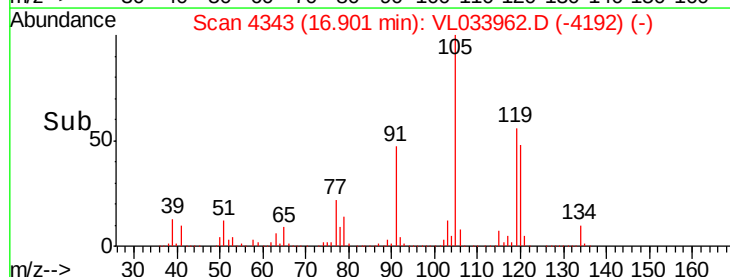
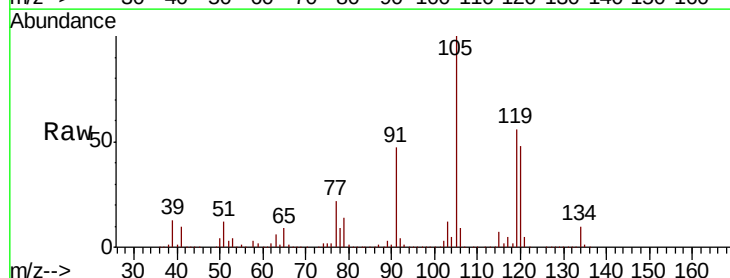
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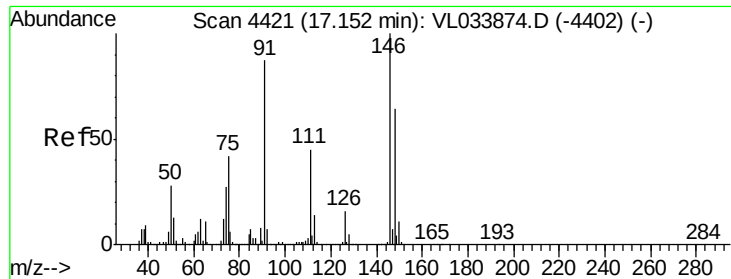
500000

0

16.80 16.90 17.00

Time-->





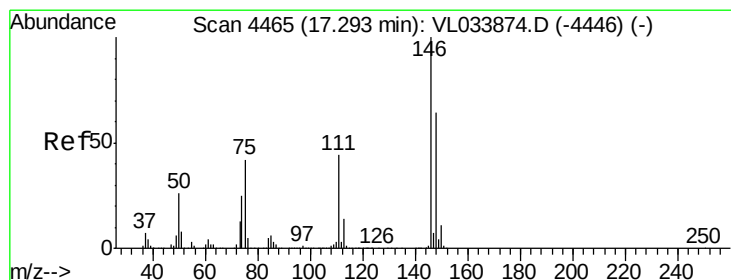
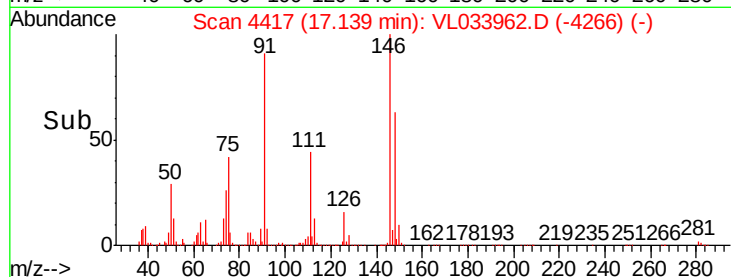
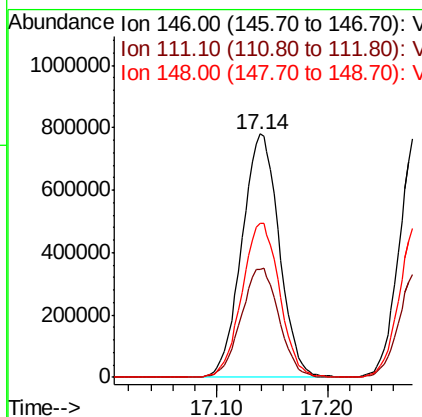
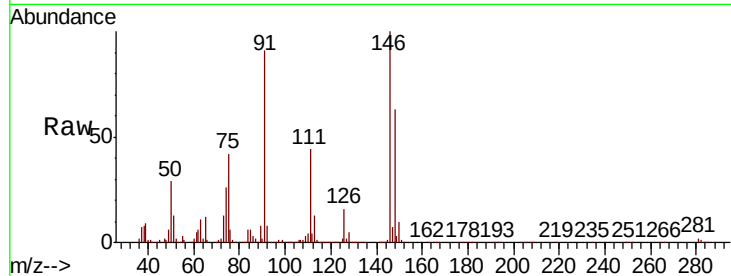
#75
 1,3-Dichlorobenzene
 Concen: 9.796 ppbv
 RT: 17.14 min Scan# 4417
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion:146 Resp: 1828107
 Ion Ratio Lower Upper
 146 100
 111 45.5 22.8 68.3
 148 64.0 32.2 96.6

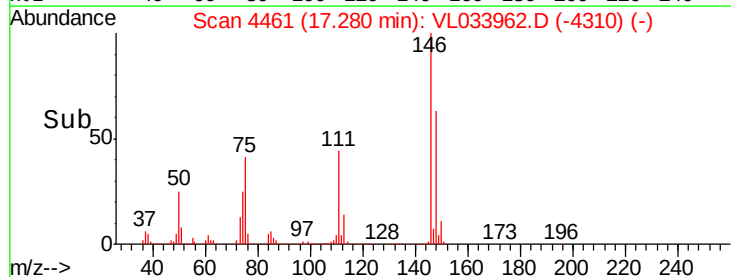
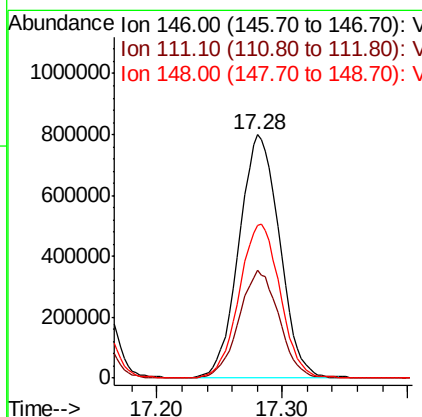
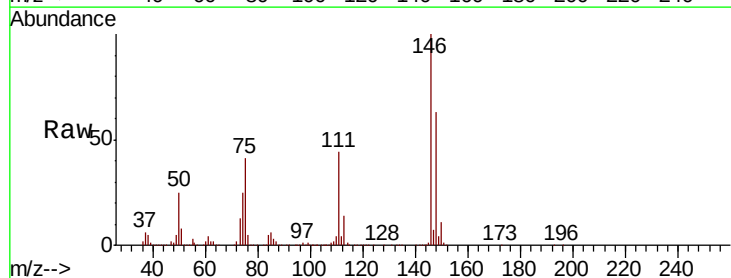
Manual Integrations
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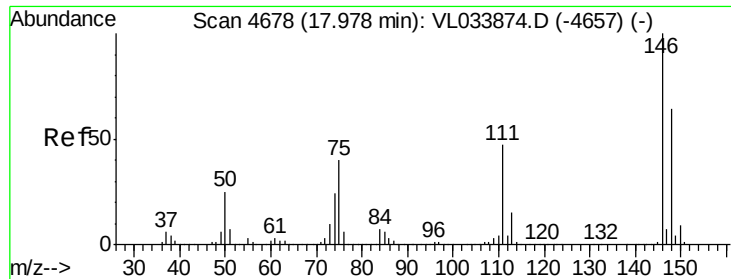
MMDadoda
 6/26/2019 8:16:00 AM



#76
 1,4-Dichlorobenzene
 Concen: 10.435 ppbv
 RT: 17.28 min Scan# 4461
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion:146 Resp: 1788006
 Ion Ratio Lower Upper
 146 100
 111 43.9 22.1 66.5
 148 64.1 32.4 97.0





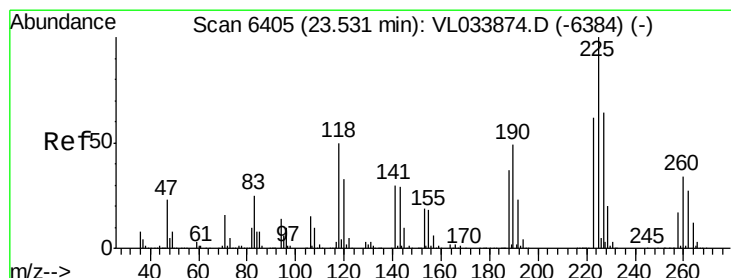
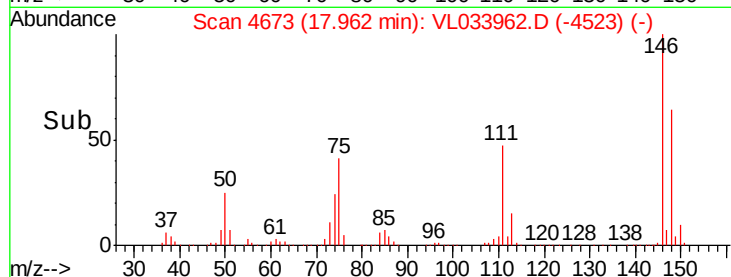
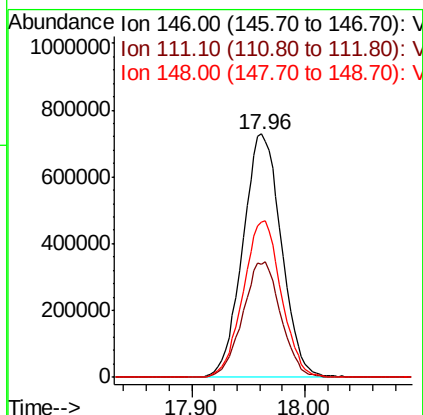
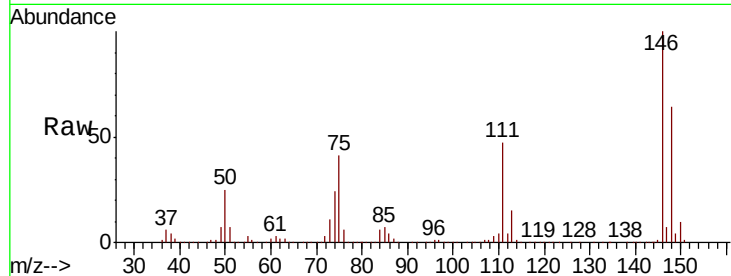
#77
 1,2-Dichlorobenzene
 Concen: 10.032 ppbv
 RT: 17.96 min Scan# 4673
 Delta R.T. -0.02 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.0	23.4	70.0
148	63.7	31.8	95.4

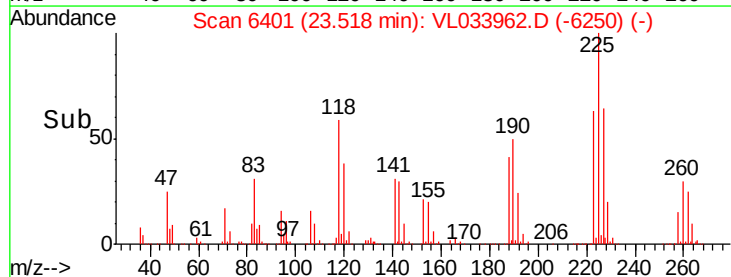
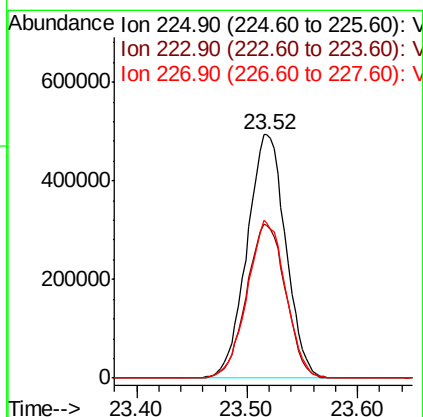
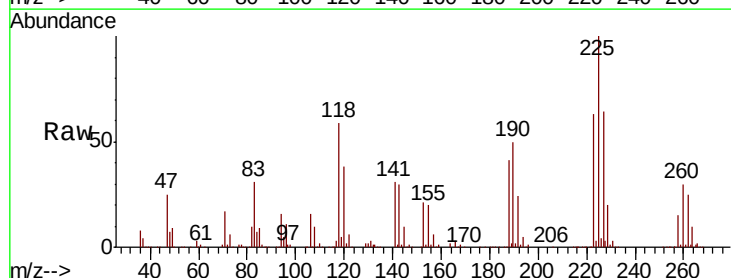
Manual Integrations
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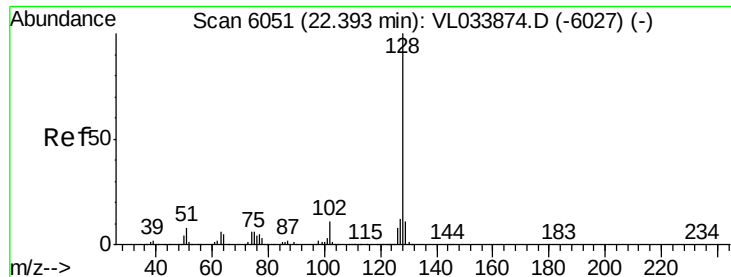
MMDadoda
 6/26/2019 8:16:00 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 8.905 ppbv
 RT: 23.52 min Scan# 6401
 Delta R.T. -0.01 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.9	50.8	76.2
227	64.2	51.8	77.6





#79

Naphthalene

Concen: 9.343 ppbv

RT: 22.38 min Scan# 6047

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

Instrument :

MSVOA_L

ClientSampleId :

VSTDCCC010EC

Tot Ion:128 Resp: 2225497

Ion Ratio Lower Upper

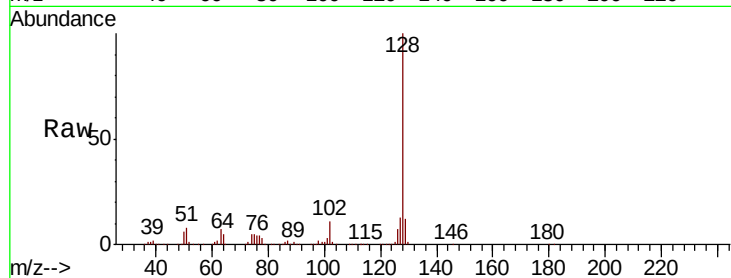
128 100

127 12.7 9.7 14.5

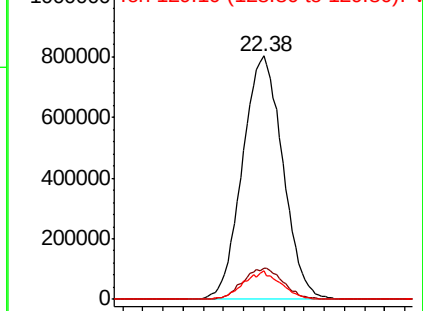
129 11.6 8.6 12.8

Manual Integrations
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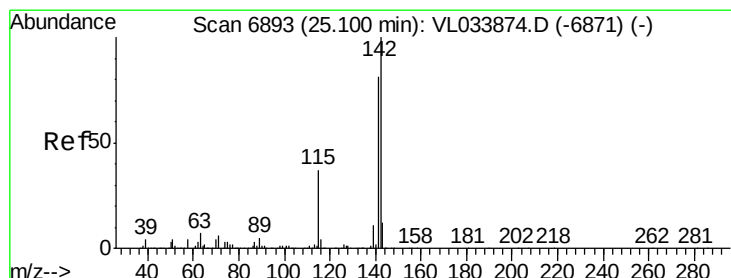
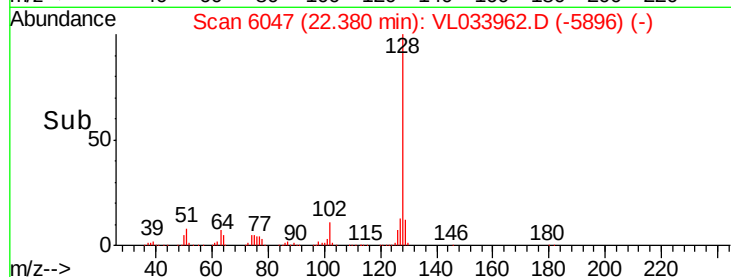
MMDadoda
6/26/2019 8:16:00 AM



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



Time-->



#80

Naphthalene, 2-methyl-

Concen: 8.474 ppbv

RT: 25.09 min Scan# 6891

Delta R.T. -0.01 min

Lab File: VL033962.D

Acq: 25 Jun 2019 8:31

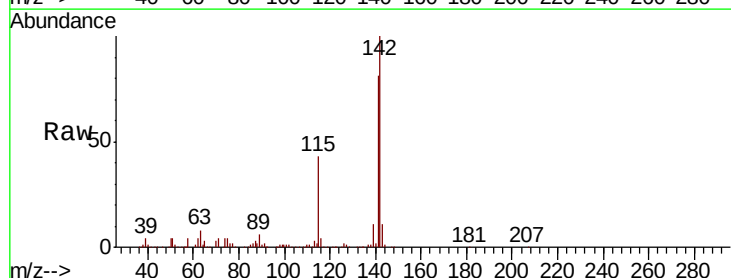
Tgt Ion:142 Resp: 805337

Ion Ratio Lower Upper

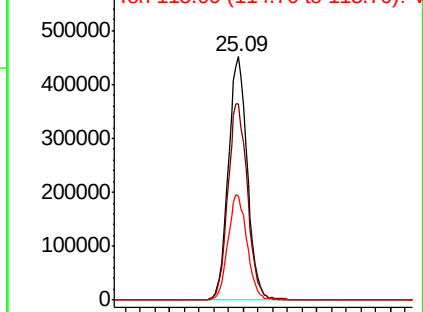
142 100

141 83.7 65.7 98.5

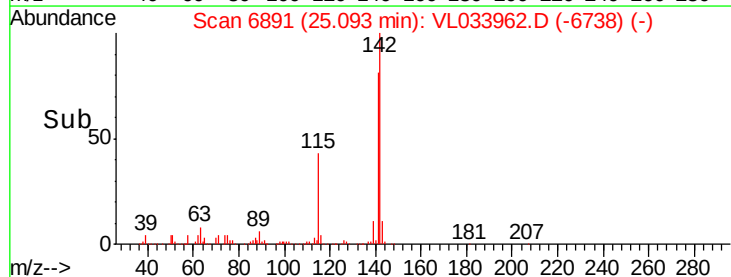
115 43.6 28.9 43.3#

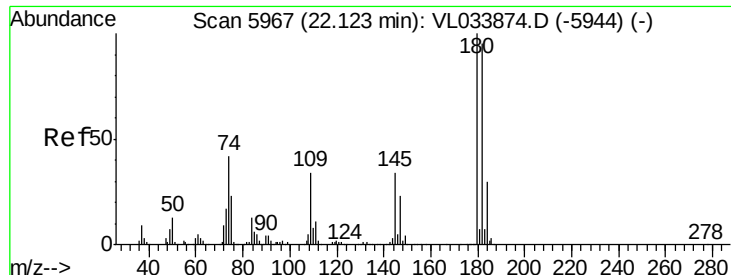


Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V



Time-->





#81
 1,2,4-Trichlorobenzene
 Concen: 8.791 ppbv
 RT: 22.10 min Scan# 5961
 Delta R.T. -0.02 min
 Lab File: VL033962.D
 Acq: 25 Jun 2019 8:31

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDCCC010EC

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	76.9	115.3
184	30.6	24.5	36.7

Manual Integrations
 APPROVED

MMDadoda
 6/26/2019 8:16:00 AM

