

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050619\
 Data File : VL033660.D
 Acq On : 6 May 2019 14:51
 Operator : SY/AP
 Sample : VSTDIC015
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Manual Integrations
 APPROVED

MMDadoda
 5/8/2019 12:06:31 PM

Quant Time: May 06 15:21:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 06 2019
 QLast Update : Mon May 06 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	960000	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2431301	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2622260	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	2353522	11.24	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	112.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	2137151	13.350	ppbv	100
3) Chlorodifluoromethane	3.01	51	1681271	14.528	ppbv	98
4) Chloromethane	3.17	50	980472	15.378	ppbv	99
5) Vinyl Chloride	3.29	62	953520	14.376	ppbv	100
6) Bromomethane	3.51	94	599100	15.198	ppbv	99
7) Chloroethane	3.60	64	353951	15.972	ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	2550588	15.796	ppbv	100
9) Propene	3.04	41	740286	18.375	ppbv	99
10) Heptane	8.25	43	2019700	16.466	ppbv	99
11) Trichlorofluoromethane	4.00	101	2777381	15.590	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.55	101	1882237	15.383	ppbv	100
13) Ethanol	3.65	45	174473	11.722	ppbv	99
14) Bromoethene	3.79	108	797954	16.096	ppbv	99
15) Acetone	3.90	43	1766574	14.618	ppbv	99
16) 1,3-Butadiene	3.36	39	872063	16.208	ppbv	99
17) tert-Butyl alcohol	4.35	59	1384517	13.623	ppbv	100
18) 1,1-Dichloroethene	4.35	96	812971	15.310	ppbv	98
19) Isopropyl Alcohol	4.02	45	1144129	14.176	ppbv	100
20) Methylene Chloride	4.41	84	700673	14.823	ppbv	98
21) Allyl Chloride	4.48	41	1234347	16.311	ppbv	99
22) trans-1,2-Dichloroethene	4.96	96	866575	16.529	ppbv	99
23) Vinyl Acetate	5.16	43	2828083	16.149	ppbv	100
24) 1,1-Dichloroethane	5.09	63	1921931	14.673	ppbv	99
25) Ethyl Acetate	5.77	43	3282723	14.689	ppbv	100
26) Hexane	5.78	57	1453103	15.368	ppbv	100
27) Carbon Disulfide	4.62	76	2120928	18.063	ppbv	99
28) Methyl tert-Butyl Ether	5.11	73	2448228	15.410	ppbv	99
29) Chloroform	5.85	83	2475811	14.316	ppbv	100
30) Cyclohexane	7.25	84	1346166	16.793	ppbv	99
31) cis-1,2-Dichloroethene	5.64	61	1520396	15.960	ppbv	98
32) 1,1,1-Trichloroethane	6.62	97	2641947	14.581	ppbv	99
34) 2-Butanone	5.33	43	2219631	14.758	ppbv	99
35) Carbon Tetrachloride	7.14	117	2928165	15.005	ppbv	99
36) Benzene	7.01	78	3163845	15.028	ppbv	99
37) 1,2-Dichloroethane	6.42	62	1974459	14.129	ppbv	100
38) Trichloroethene	7.96	130	1317188	15.750	ppbv	98
39) 1,2-Dichloropropane	7.74	63	1192697	15.114	ppbv	98
40) 1,4-Dioxane	7.95	88	483525	15.259	ppbv	97
41) Tetrahydrofuran	6.15	42	1249868	15.484	ppbv	99
42) Bromodichloromethane	7.92	83	2904790	15.338	ppbv	98
43) Methyl Methacrylate	8.14	69	1317589	16.598	ppbv	100

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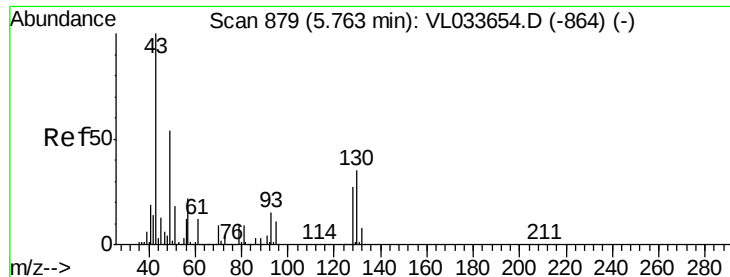
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Quant Time: May 06 15:21:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon May 0
 QLast Update : Mon May 06 12:00:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	5416655	14.807	ppbv	100
45) t-1,3-Dichloropropene	9.42	75	1882995	18.383	ppbv	97
46) cis-1,3-Dichloropropene	8.84	75	2038071	17.192	ppbv	98
47) 1,1,2-Trichloroethane	9.62	97	1376298	14.750	ppbv	98
48) Dibromochloromethane	10.45	129	2576074	16.438	ppbv	100
49) Bromoform	13.21	173	2308958	17.174	ppbv	99
50) 4-Methyl-2-Pentanone	8.87	43	3543659	15.024	ppbv	100
51) 2-Hexanone	10.27	43	3034634	16.387	ppbv #	99
52) Tetrachloroethene	11.38	164	1249479	15.669	ppbv	96
53) Toluene	9.95	91	3864664	16.268	ppbv	99
54) 1,2-Dibromoethane	10.76	107	2203326	15.804	ppbv	98
56) 1,1,1,2-Tetrachloroethane	12.28	131	1682666	14.654	ppbv #	76
57) Chlorobenzene	12.30	112	2936333	14.355	ppbv	98
58) Ethyl Benzene	12.87	91	5314504	16.144	ppbv	98
59) m/p-Xylene	13.15	91	8828654m	31.156	ppbv	
60) o-Xylene	13.85	91	4473593	15.672	ppbv	99
61) Styrene	13.69	104	3418573	17.459	ppbv	100
62) Isopropylbenzene	14.83	105	6796447	17.868	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.84	83	3098413	14.343	ppbv	100
64) n-propylbenzene	15.72	120	1794725	18.141	ppbv	97
65) tert-Butylbenzene	16.91	119	6106176	17.150	ppbv	99
66) Benzyl Chloride	17.16	91	3305481	20.134	ppbv	100
67) sec-Butylbenzene	17.46	105	8044927	16.114	ppbv	99
69) p-Isopropyltoluene	17.82	119	6860643	16.513	ppbv	100
70) n-Butylbenzene	18.71	91	6896167	15.228	ppbv	99
71) 2-Chlorotoluene	15.62	91	5177579	18.136	ppbv	99
72) 4-Ethyltoluene	16.00	105	6094442	18.654	ppbv	99
73) 1,3,5-Trimethylbenzene	16.16	105	5749815	17.962	ppbv	98
74) 1,2,4-Trimethylbenzene	16.93	105	5872611	16.542	ppbv	97
75) 1,3-Dichlorobenzene	17.17	146	3298805	14.976	ppbv	100
76) 1,4-Dichlorobenzene	17.31	146	3306939	15.741	ppbv	100
77) 1,2-Dichlorobenzene	17.99	146	3218370	15.692	ppbv	100
78) Hexachloro-1,3-Butadiene	23.54	225	2843621	18.171	ppbv	99
79) Naphthalene	22.41	128	6241473	18.838	ppbv	98
80) Naphthalene, 2-methyl-	25.11	142	3054839	21.727	ppbv	99
81) 1,2,4-Trichlorobenzene	22.14	180	3345553	17.524	ppbv	99

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. 0.00 min

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MSVOA_L

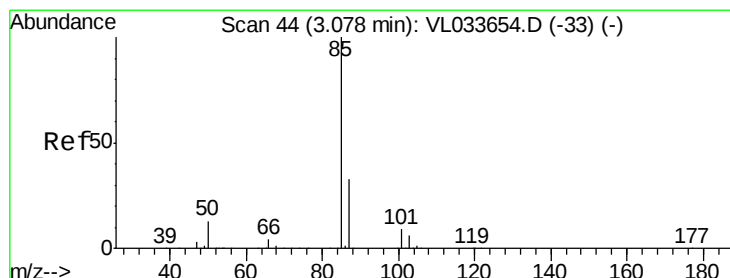
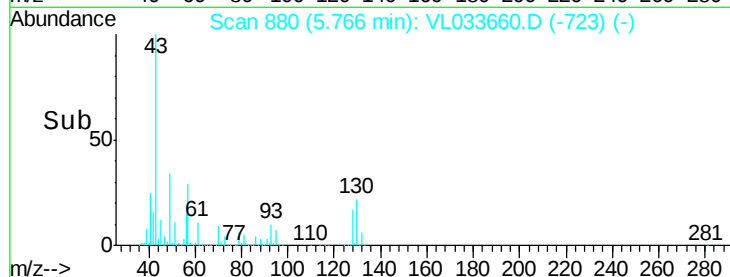
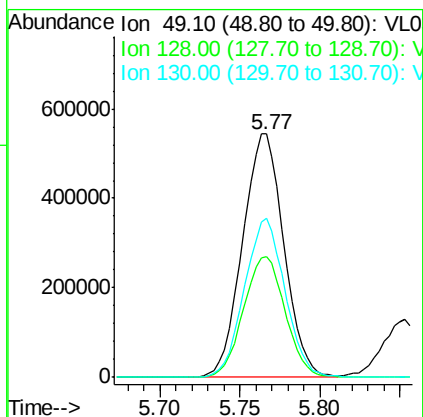
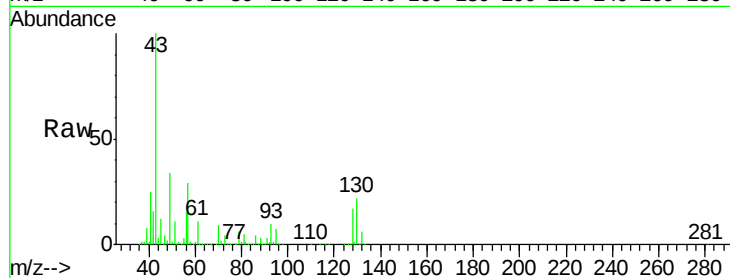
ClientSampleId :

VSTDIC015

Tot Ion:	49	Resp:	960000
Ion	Ratio	Lower	Upper
49	100		
128	50.2	24.8	74.4
130	64.6	32.1	96.5

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#2

Dichlorodifluoromethane

Concen: 13.350 ppbv

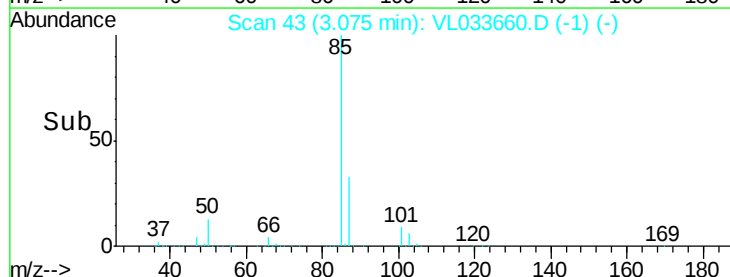
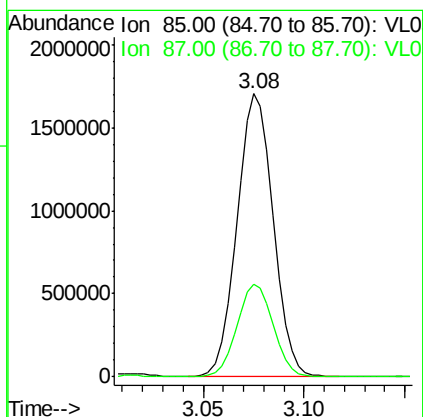
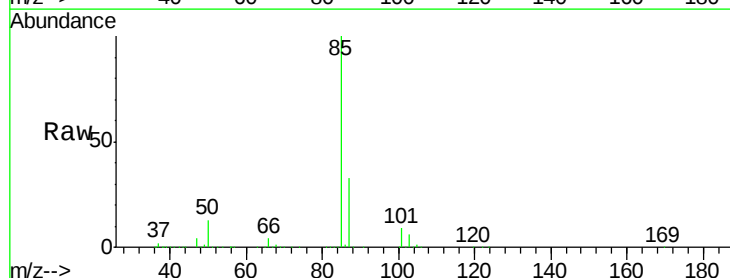
RT: 3.08 min Scan# 43

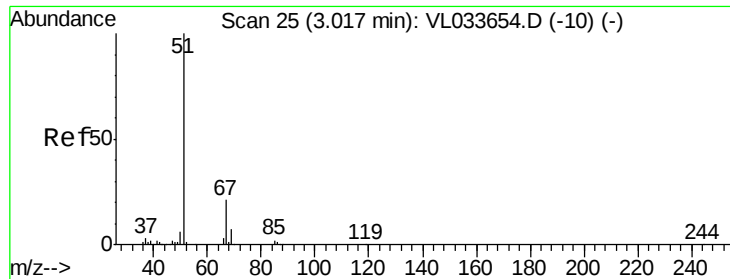
Delta R.T. -0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Tgt Ion:	85	Resp:	2137151
Ion	Ratio	Lower	Upper
85	100		
87	32.8	26.0	39.0





#3

Chlorodifluoromethane

Concen: 14.528 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Tot Ion: 51 Resp: 1681271

Ion Ratio Lower Upper

51 100

67 20.4 15.7 23.5

Instrument :

MSVOA_L

ClientSampleId :

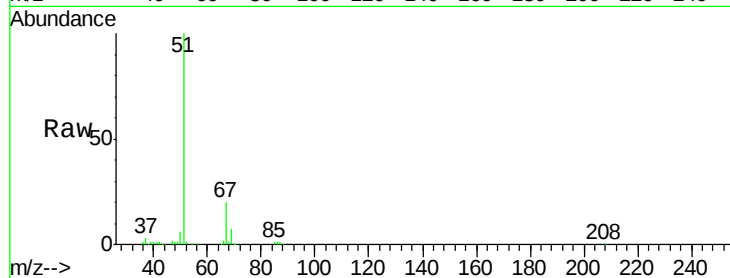
VSTDIC015

Manual Integrations

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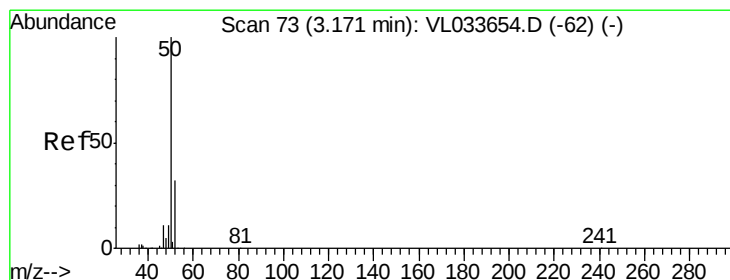
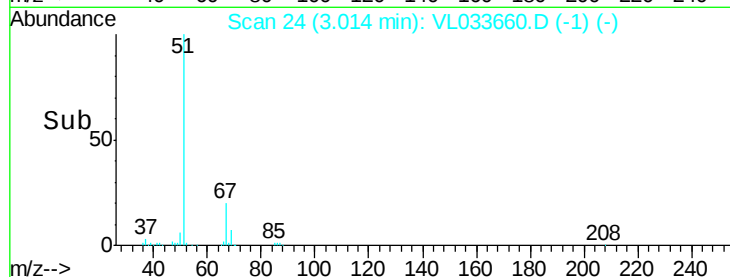
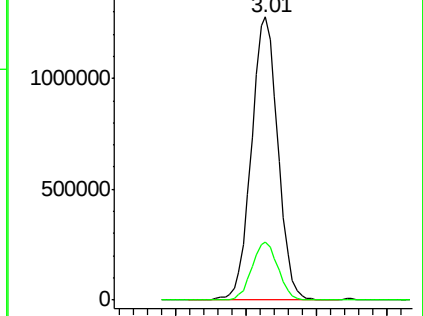
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 15.378 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033660.D

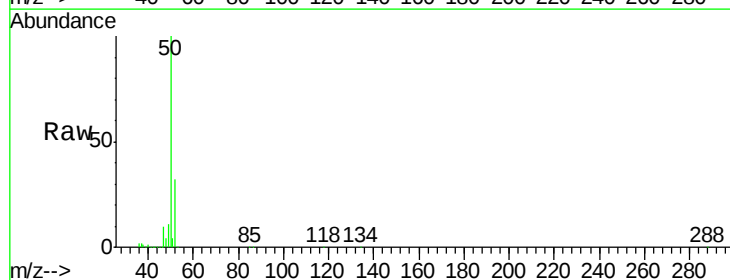
Acq: 6 May 2019 14:51

Tgt Ion: 50 Resp: 980472

Ion Ratio Lower Upper

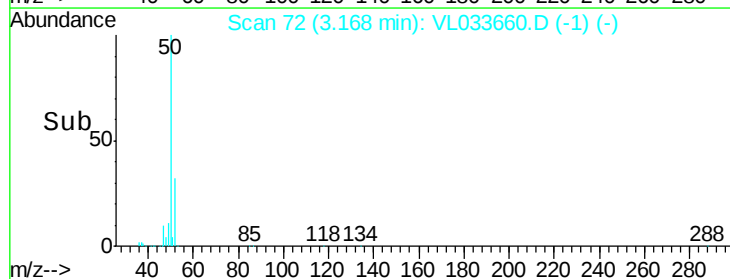
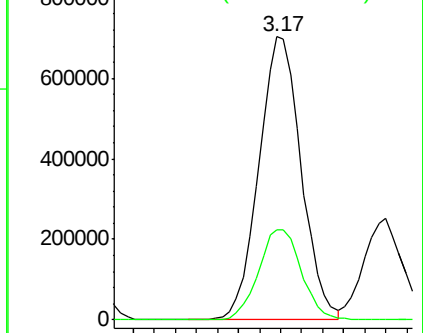
50 100

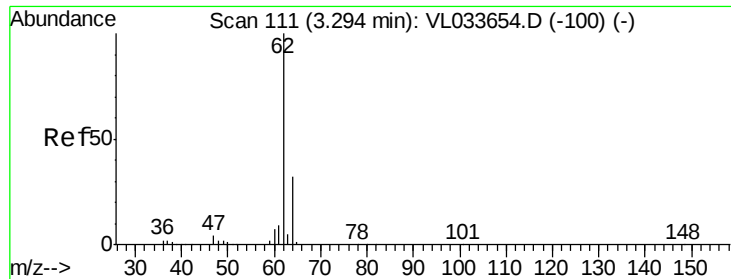
52 31.9 25.8 38.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 14.376 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 62 Resp: 953520

Ion Ratio Lower Upper

62 100

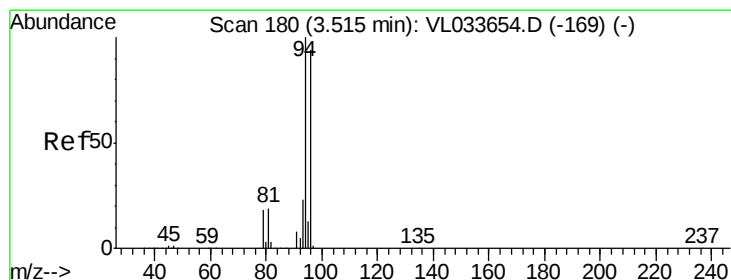
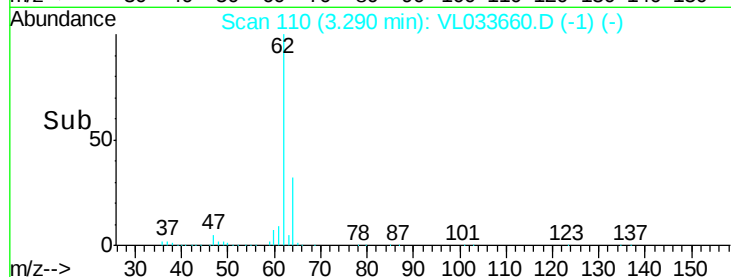
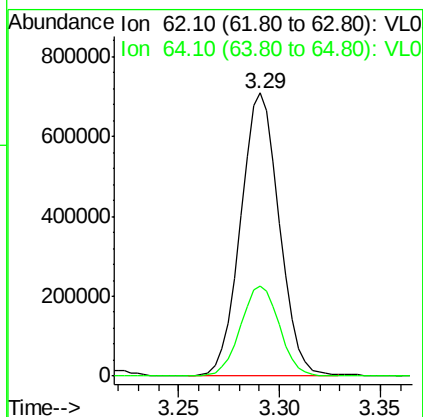
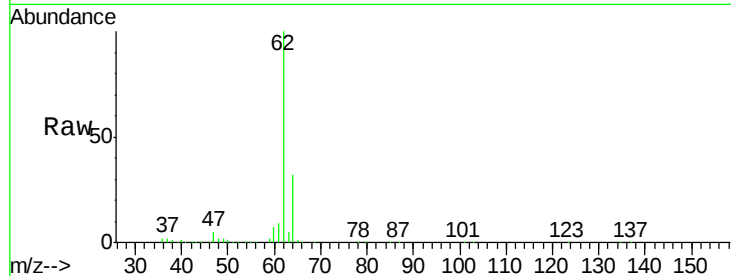
64 31.7 25.6 38.4

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#6

Bromomethane

Concen: 15.198 ppbv

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033660.D

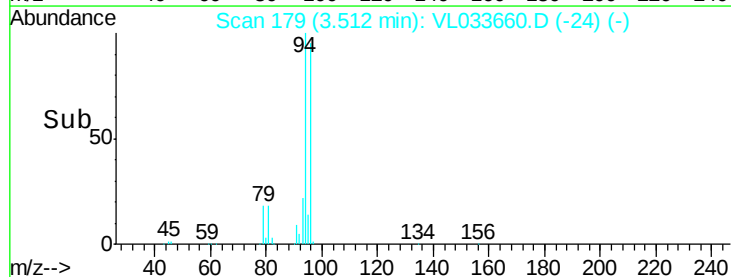
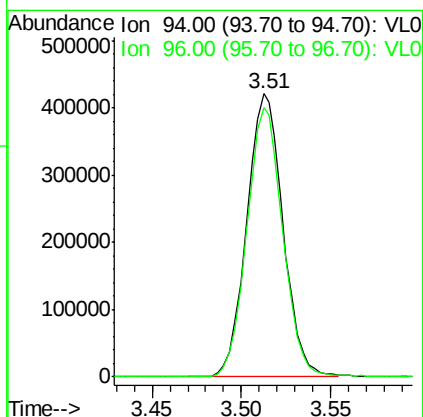
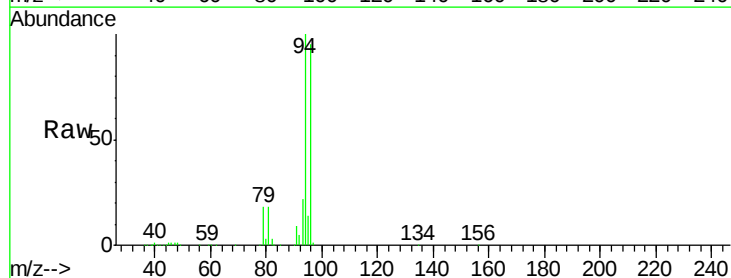
Acq: 6 May 2019 14:51

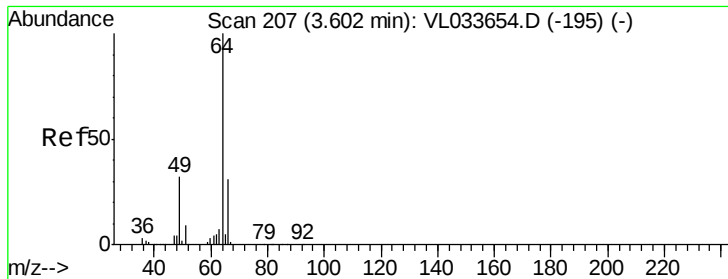
Tgt Ion: 94 Resp: 599100

Ion Ratio Lower Upper

94 100

96 95.3 75.2 112.8





#7

Chloroethane

Concen: 15.972 ppbv

RT: 3.60 min Scan# 206

Delta R.T. -0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 64 Resp: 353951

Ion Ratio Lower Upper

64 100

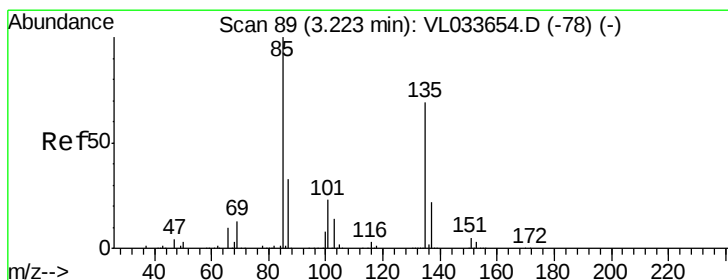
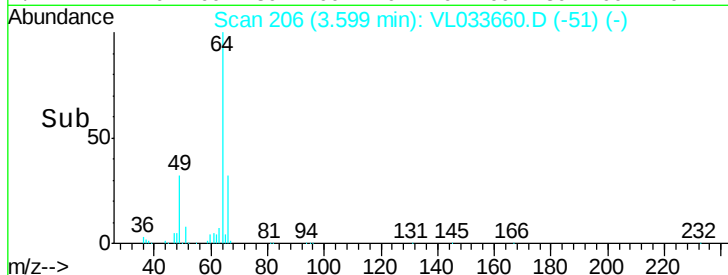
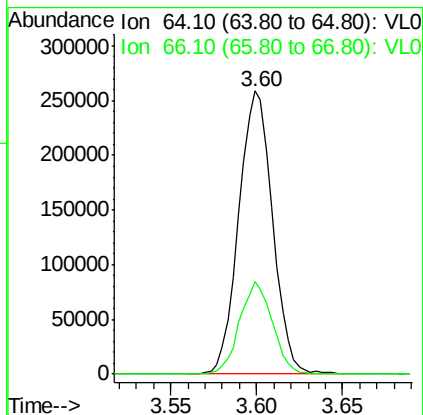
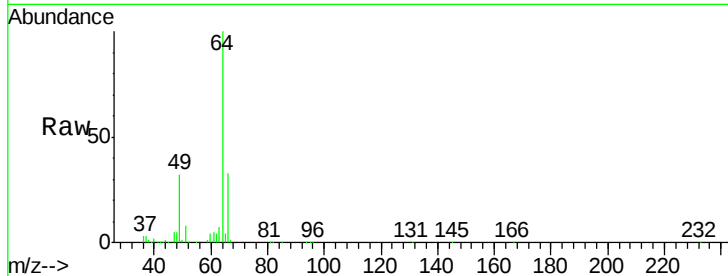
66 32.7 25.1 37.7

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#8

Dichlorotetrafluoroethane

Concen: 15.796 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033660.D

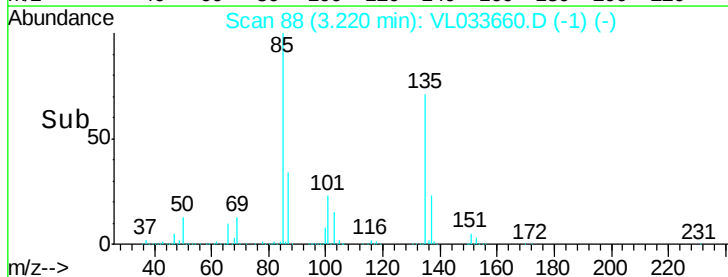
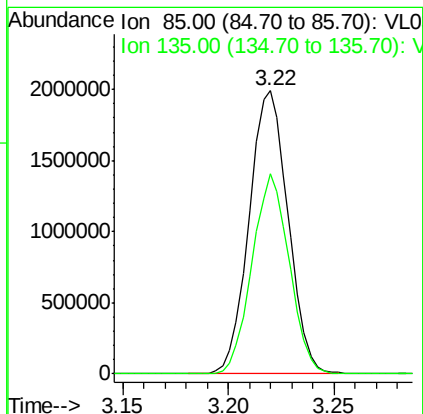
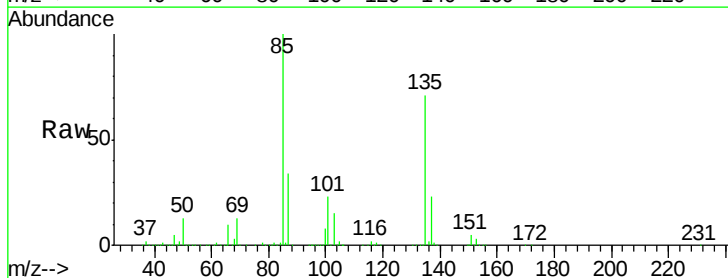
Acq: 6 May 2019 14:51

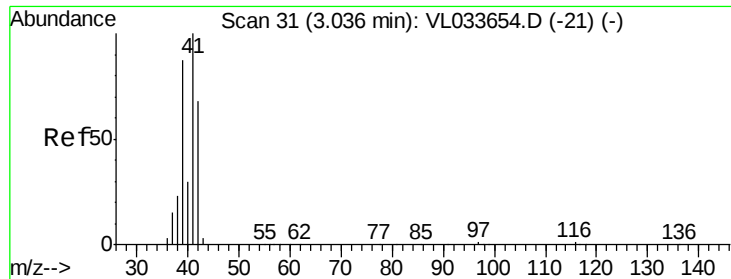
Tgt Ion: 85 Resp: 2550588

Ion Ratio Lower Upper

85 100

135 67.9 54.3 81.5





#9

Propene

Concen: 18.375 ppbv

RT: 3.04 min Scan# 31

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 41 Resp: 740286

Ion Ratio Lower Upper

41 100

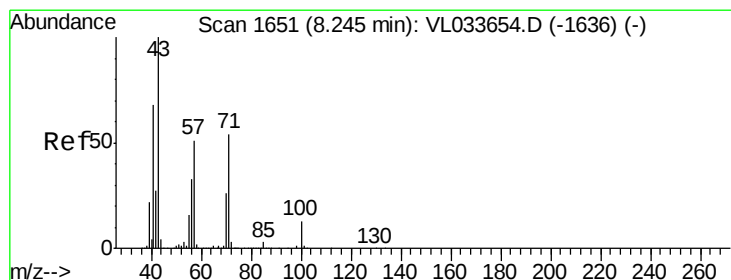
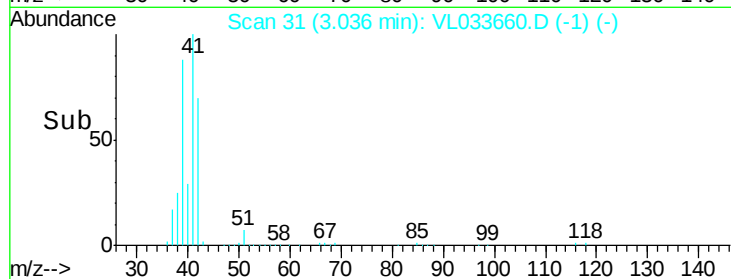
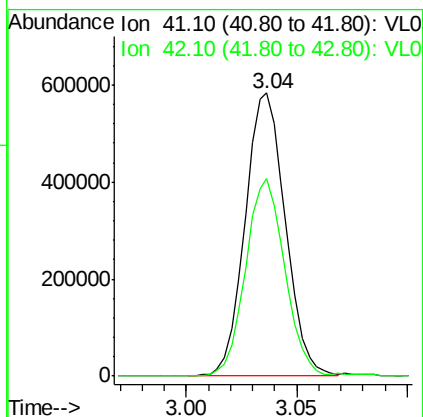
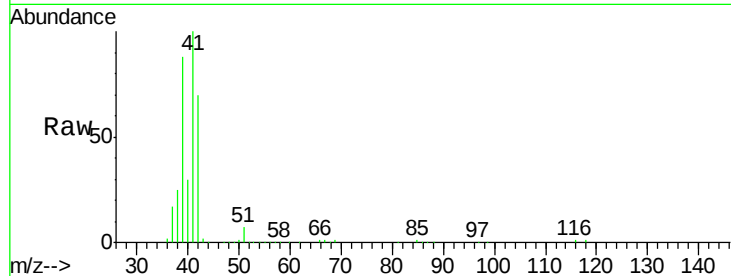
42 69.0 55.6 83.4

Manual Integrations

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#10

Heptane

Concen: 16.466 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. 0.00 min

Lab File: VL033660.D

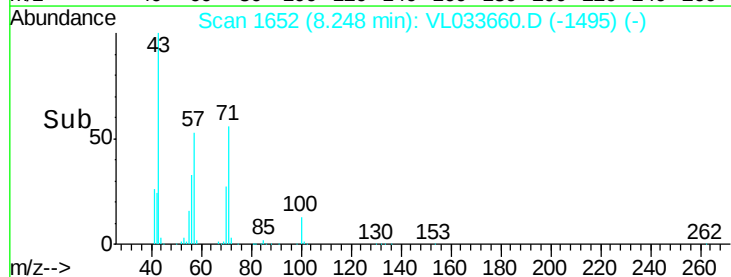
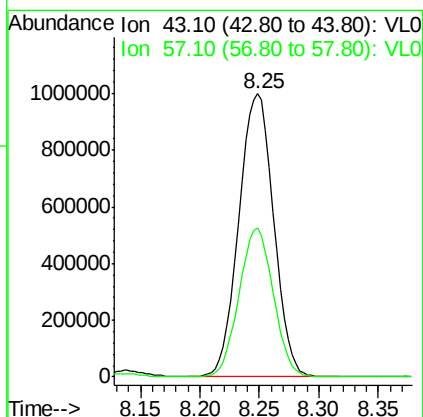
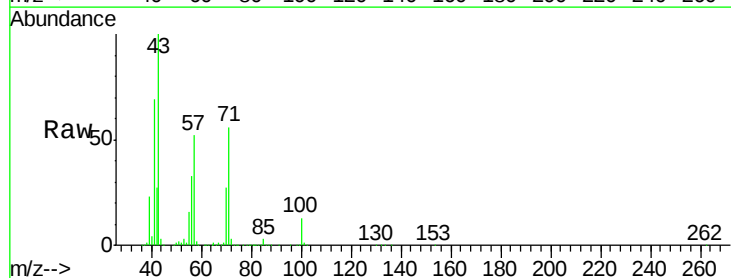
Acq: 6 May 2019 14:51

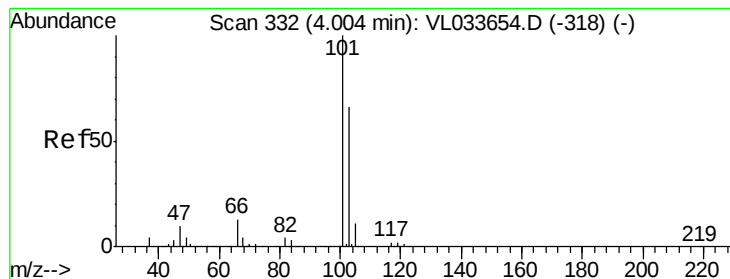
Tgt Ion: 43 Resp: 2019700

Ion Ratio Lower Upper

43 100

57 51.7 41.8 62.6





#11

Trichlorofluoromethane

Concen: 15.590 ppbv

RT: 4.00 min Scan# 332

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:101 Resp: 2777381

Ion Ratio Lower Upper

101 100

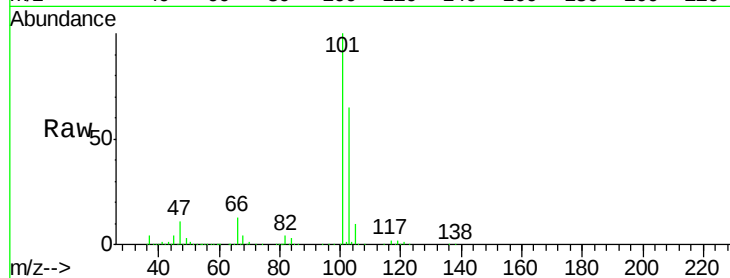
103 64.8 52.7 79.1

Manual Integrations

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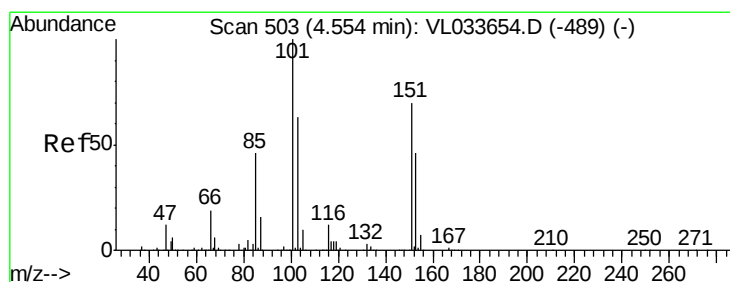
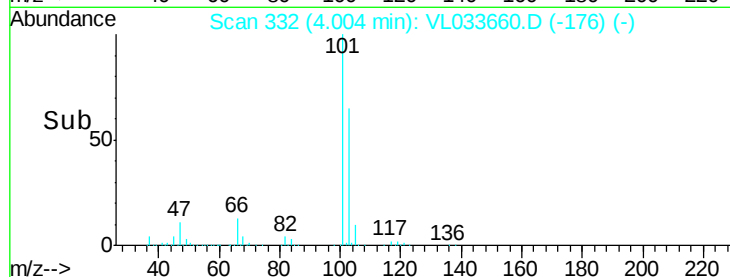
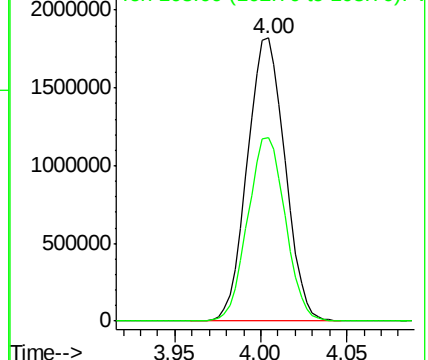
MMDadoda

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#12

1,1,2-Trichlorotrifluoroethane

Concen: 15.383 ppbv

RT: 4.55 min Scan# 502

Delta R.T. -0.00 min

Lab File: VL033660.D

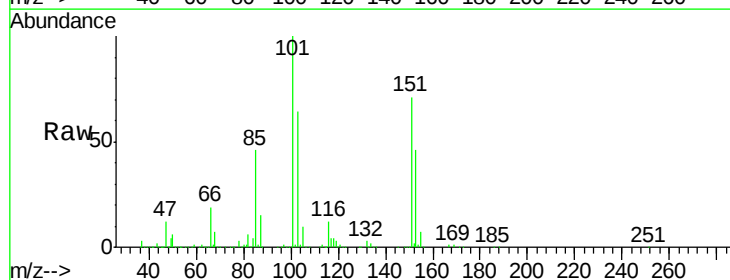
Acq: 6 May 2019 14:51

Tgt Ion:101 Resp: 1882237

Ion Ratio Lower Upper

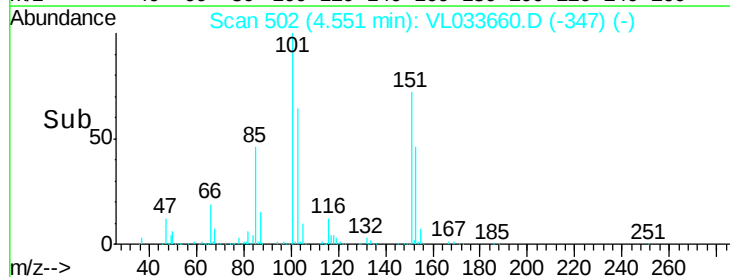
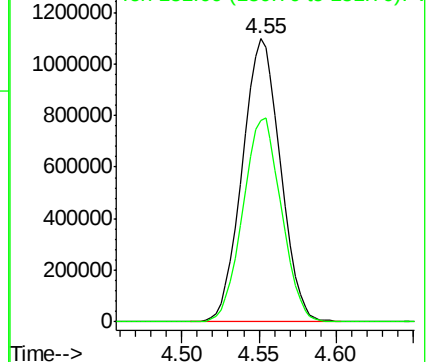
101 100

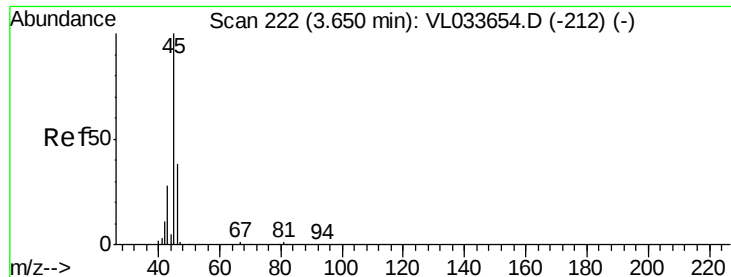
151 72.9 58.0 87.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





#13

Ethanol

Concen: 11.722 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 174473

Ion Ratio Lower Upper

45 100

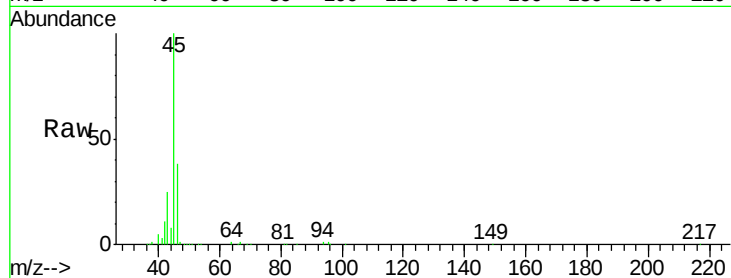
46 36.5 14.9 59.7

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

100000

80000

60000

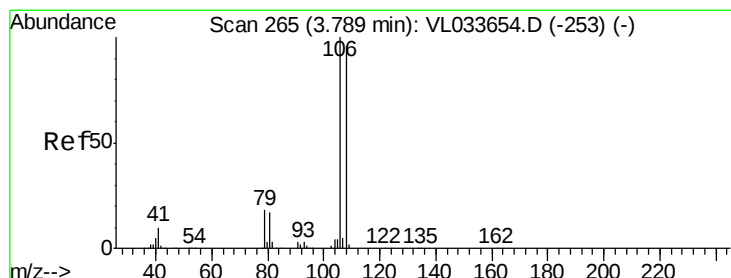
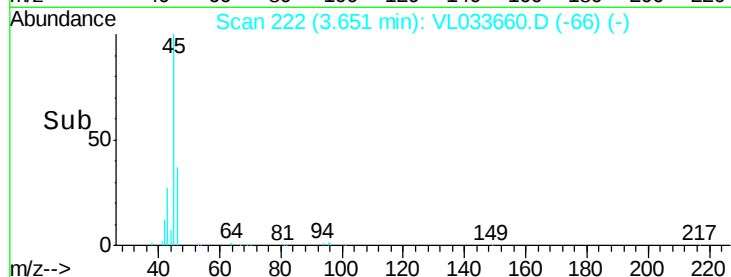
40000

20000

0

3.60 3.65 3.70 3.75

Time-->



#14

Bromoethene

Concen: 16.096 ppbv

RT: 3.79 min Scan# 264

Delta R.T. -0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

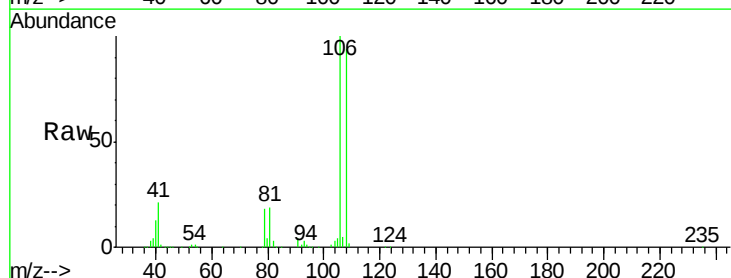
Tgt Ion: 108 Resp: 797954

Ion Ratio Lower Upper

108 100

106 105.6 85.8 128.6

79 19.5 15.2 22.8



Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

800000

600000

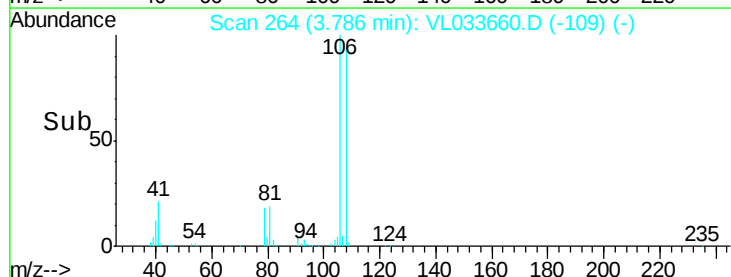
400000

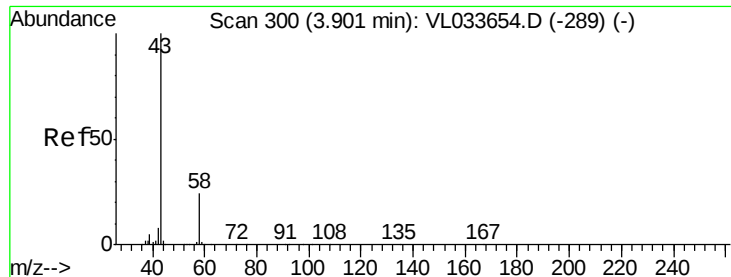
200000

0

3.70 3.75 3.80 3.85

Time-->





#15

Acetone

Concen: 14.618 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 1766574

Ion Ratio Lower Upper

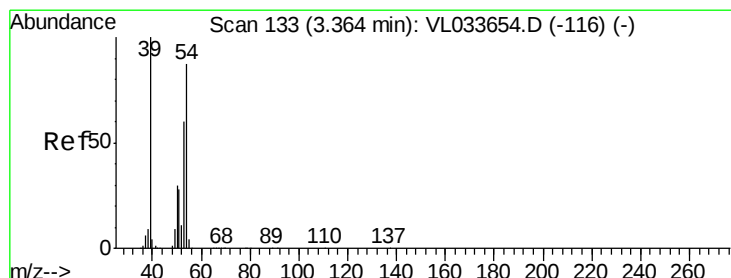
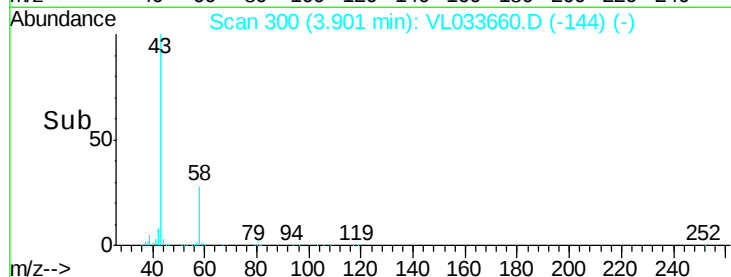
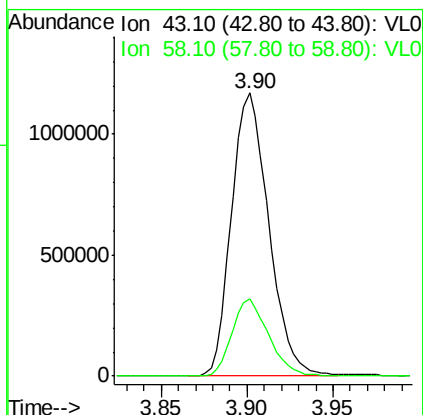
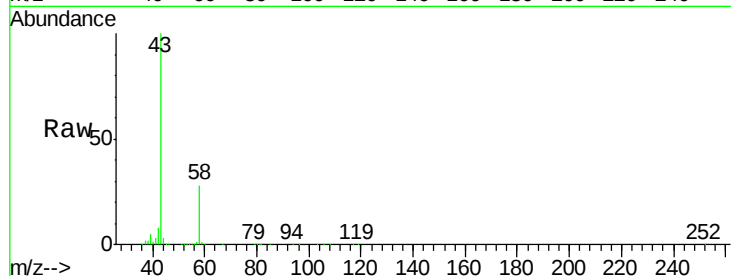
43 100

58 26.9 20.9 31.3

Manual Integrations
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#16

1,3-Butadiene

Concen: 16.208 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033660.D

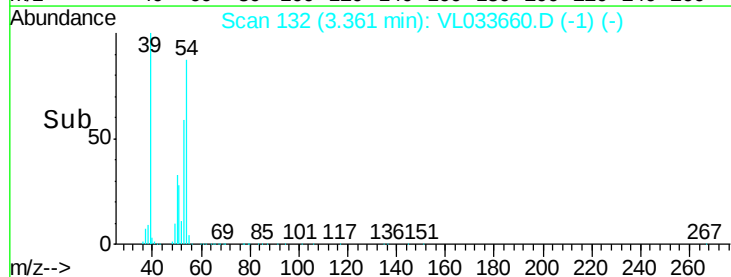
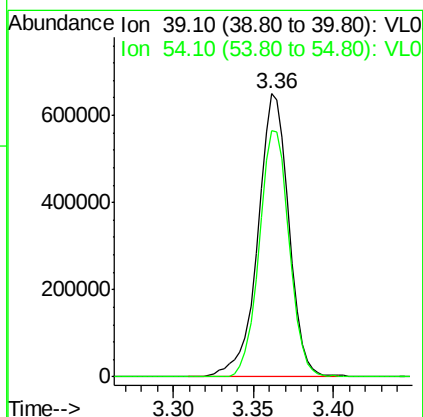
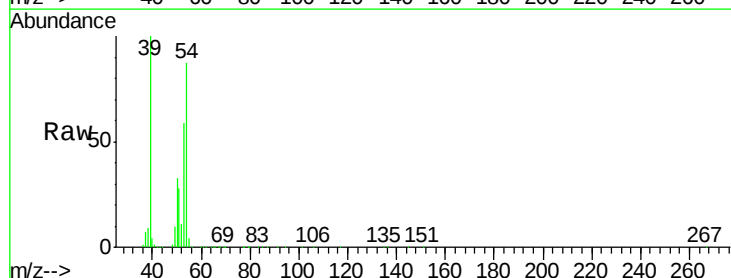
Acq: 6 May 2019 14:51

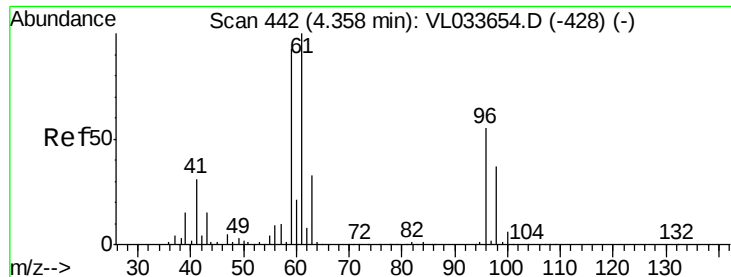
Tgt Ion: 39 Resp: 872063

Ion Ratio Lower Upper

39 100

54 84.5 67.0 100.4





#17

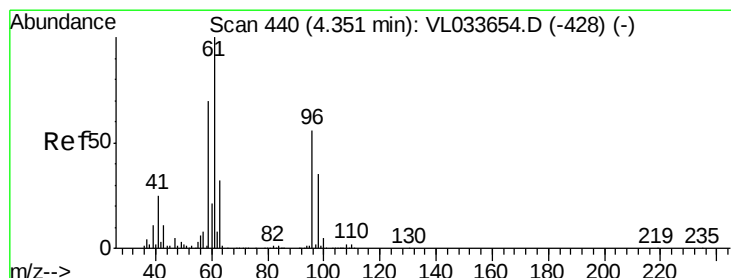
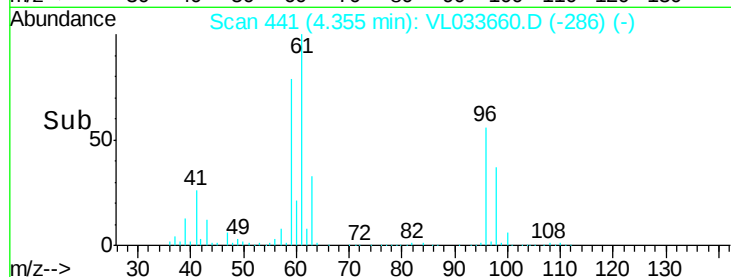
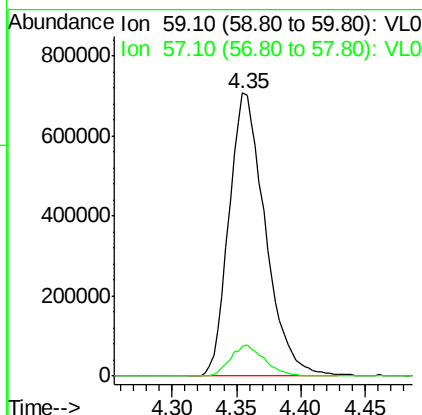
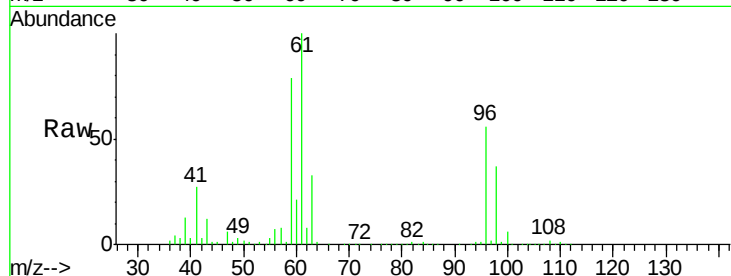
tert-Butyl alcohol
Concen: 13.623 ppbv
RT: 4.35 min Scan# 441
Delta R.T. -0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 59 Resp: 1384517
Ion Ratio Lower Upper
59 100
57 10.5 8.4 12.6

Manual Integrations
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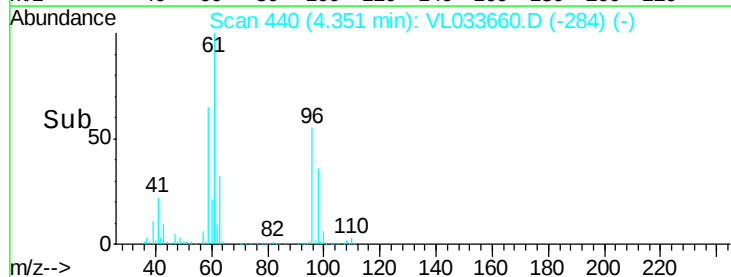
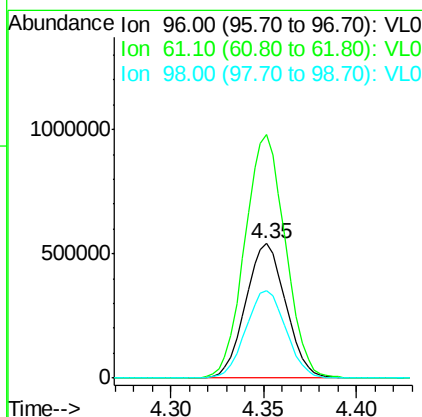
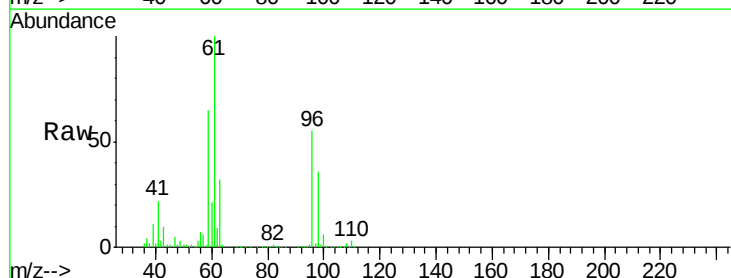
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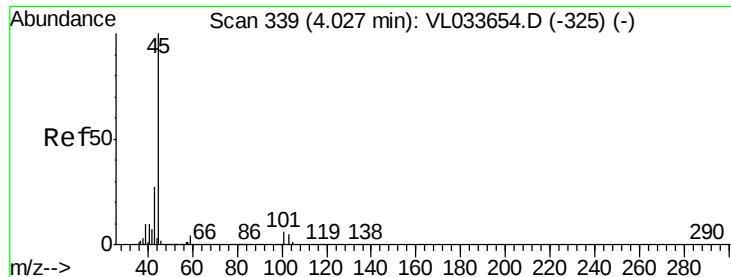


#18

1,1-Dichloroethene
Concen: 15.310 ppbv
RT: 4.35 min Scan# 440
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tgt Ion: 96 Resp: 812971
Ion Ratio Lower Upper
96 100
61 180.9 143.4 215.0
98 65.1 50.4 75.6





#19

Isopropyl Alcohol

Concen: 14.176 ppbv

RT: 4.02 min Scan# 338

Delta R.T. -0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 45 Resp: 1144129

Ion Ratio Lower Upper

45 100

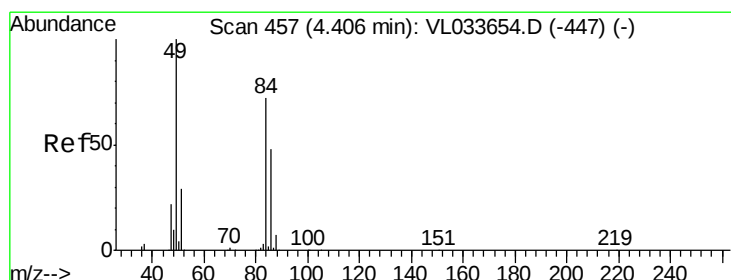
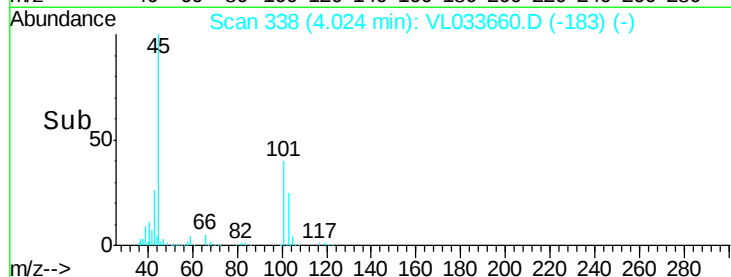
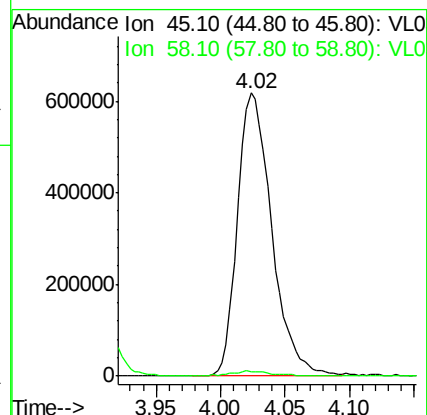
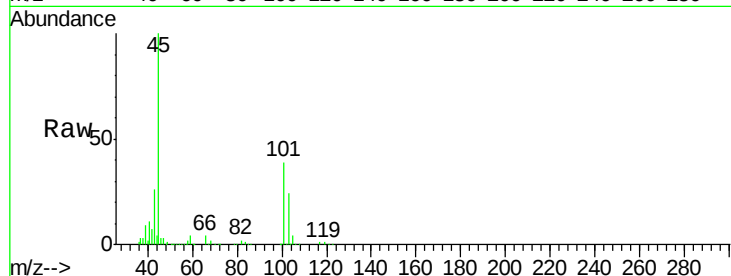
58 2.3 1.9 2.9

Manual Integrations

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#20

Methylene Chloride

Concen: 14.823 ppbv

RT: 4.41 min Scan# 457

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Tgt Ion: 84 Resp: 700673

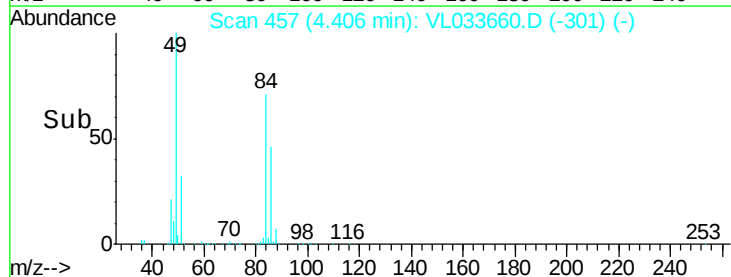
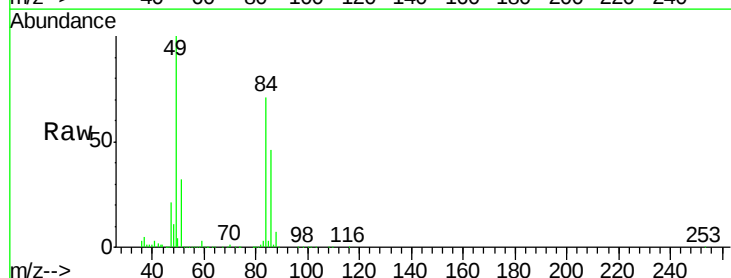
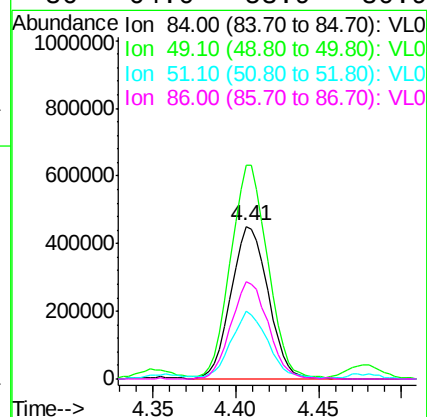
Ion Ratio Lower Upper

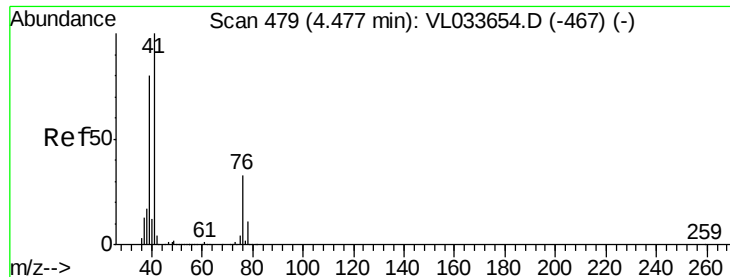
84 100

49 139.1 111.8 167.6

51 43.7 32.3 48.5

86 64.0 53.9 80.9





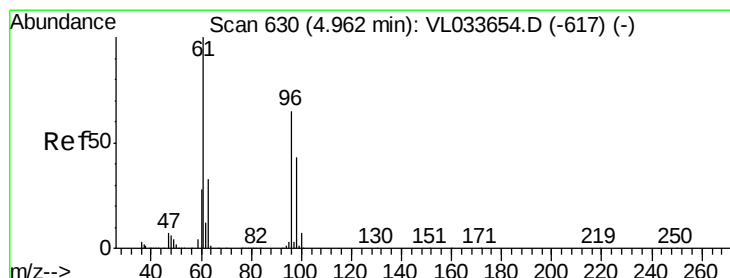
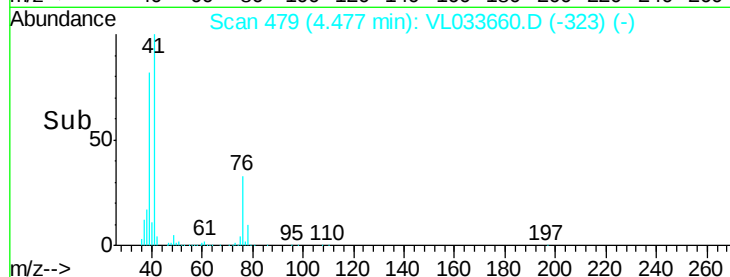
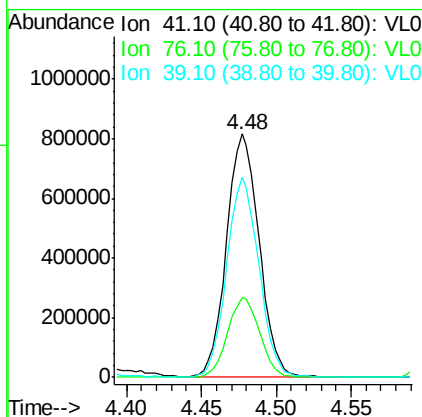
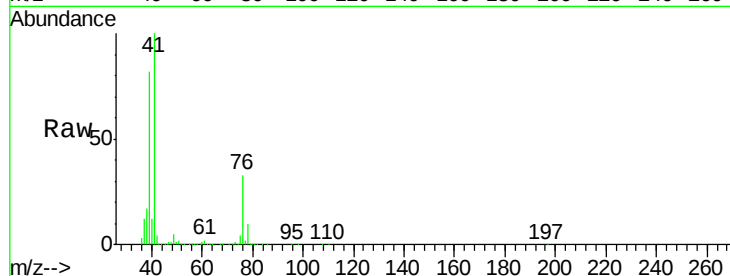
#21
Allvl Chloride
Concen: 16.311 ppbv
RT: 4.48 min Scan# 479
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
41	100		
76	32.4	26.0	39.0
39	81.4	64.4	96.6

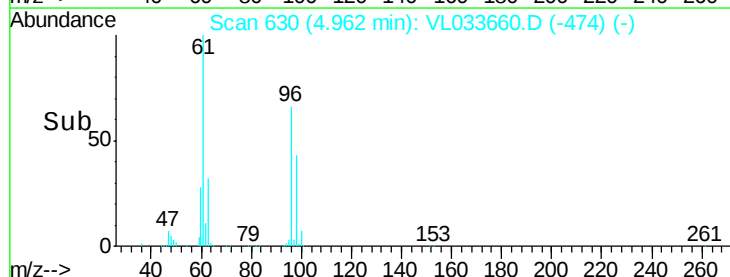
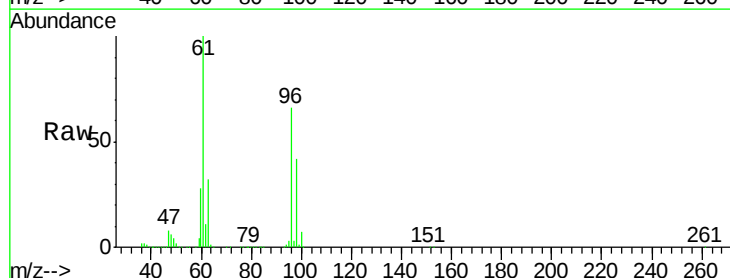
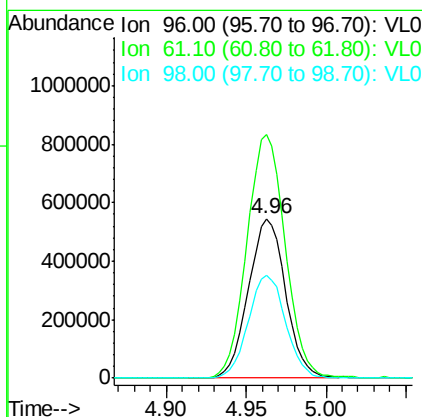
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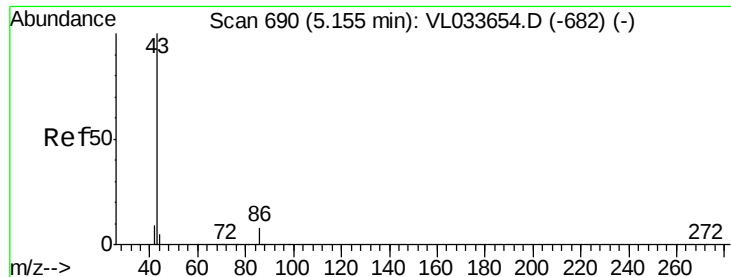
MMDadoda
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#22
trans-1,2-Dichloroethene
Concen: 16.529 ppbv
RT: 4.96 min Scan# 630
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.5	123.1	184.7
98	64.8	52.6	79.0





#23

Vinyl Acetate

Concen: 16.149 ppbv

RT: 5.16 min Scan# 690

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 2828083

Ion Ratio Lower Upper

43 100

86 7.5 6.0 9.0

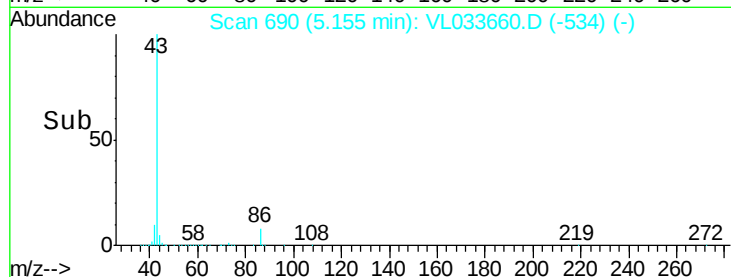
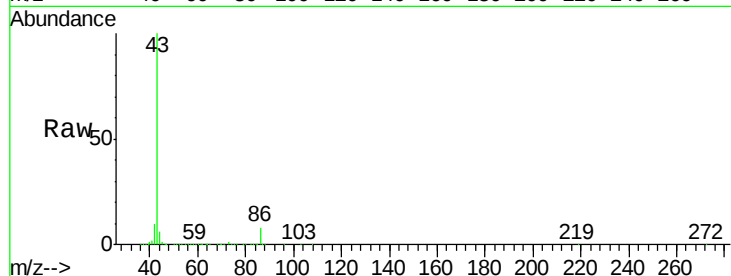
42 10.1 8.0 12.0

44 5.5 3.9 5.9

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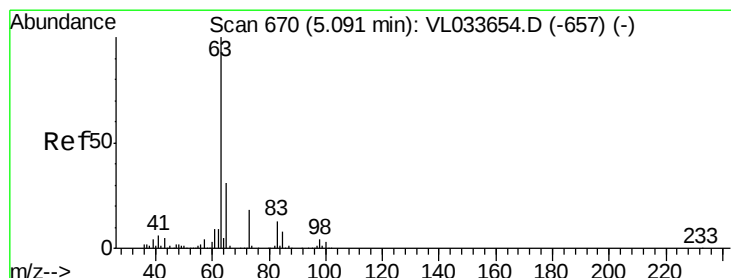
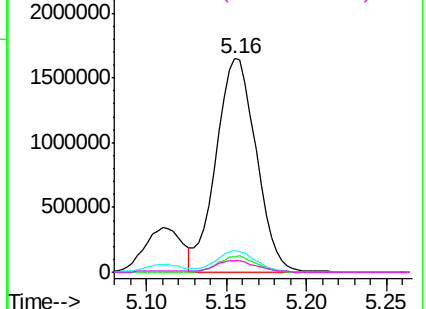


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 14.673 ppbv

RT: 5.09 min Scan# 671

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

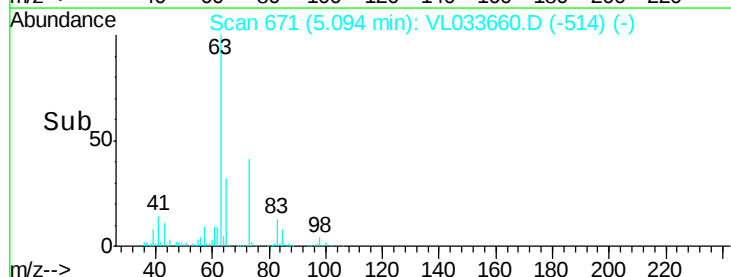
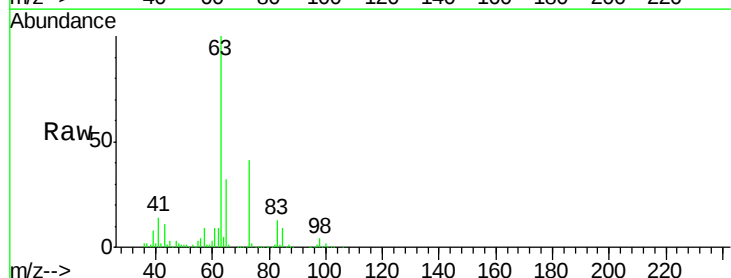
Tgt Ion: 63 Resp: 1921931

Ion Ratio Lower Upper

63 100

98 4.3 2.1 6.2

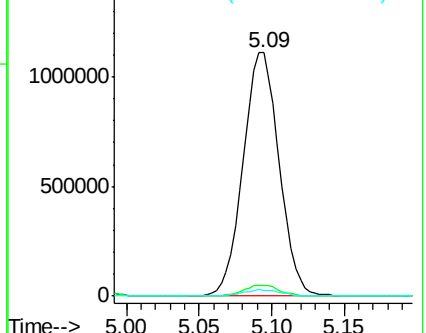
100 2.4 1.5 4.4

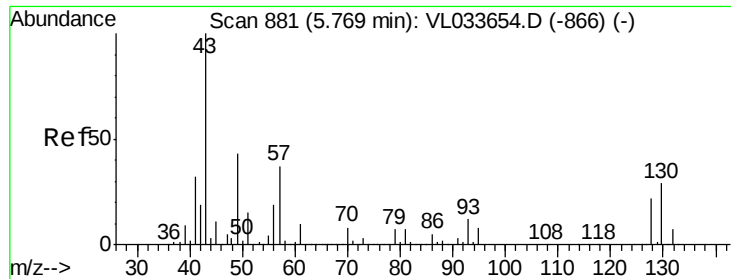


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





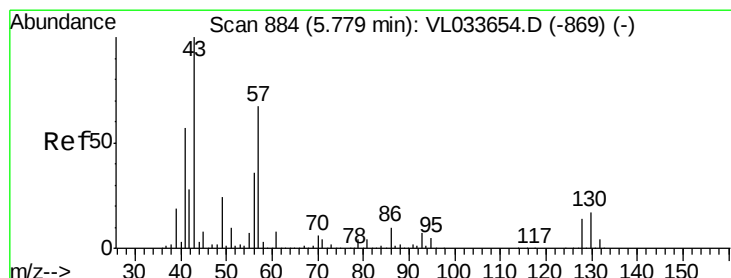
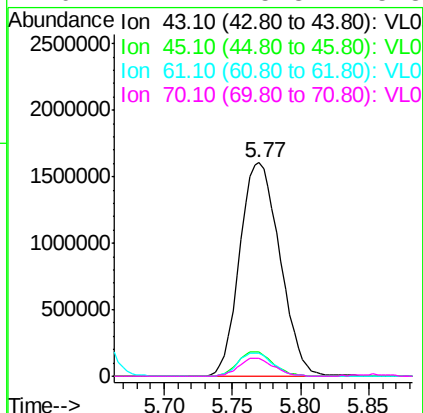
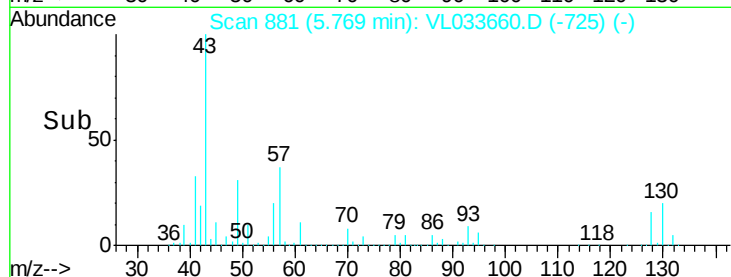
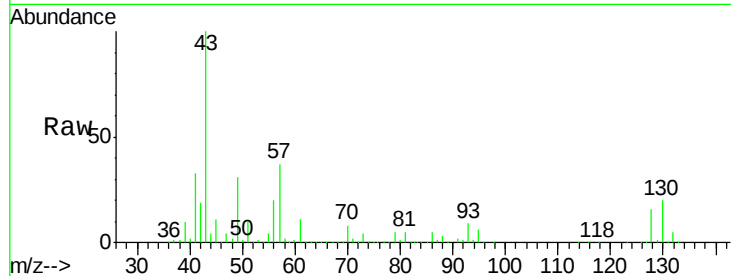
#25
Ethyl Acetate
Concen: 14.689 ppbv
RT: 5.77 min Scan# 881
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:	43	Resp:	3282723
Ion	Ratio	Lower	Upper
43	100		
45	10.1	8.0	12.0
61	9.6	7.5	11.3
70	7.4	5.8	8.8

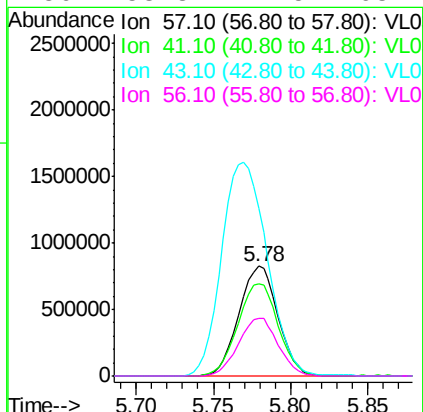
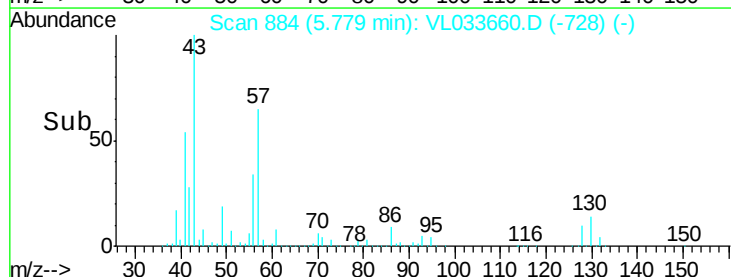
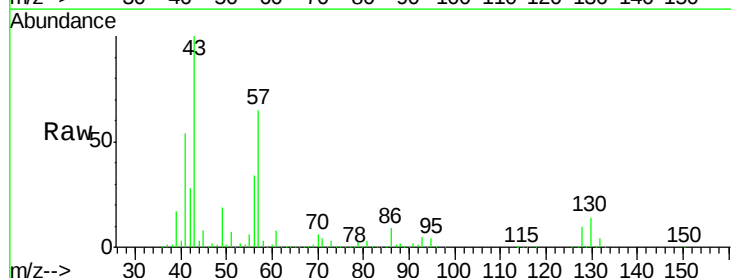
Manual Integrations
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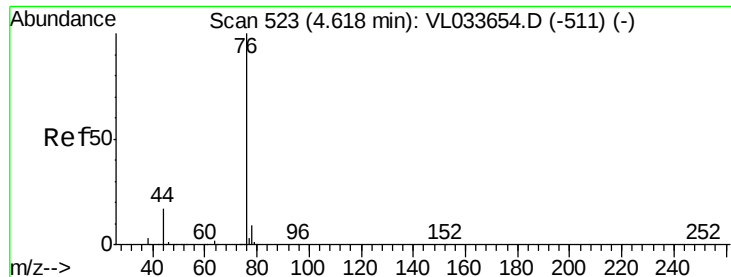
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#26
Hexane
Concen: 15.368 ppbv
RT: 5.78 min Scan# 884
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tgt Ion:	57	Resp:	1453103
Ion	Ratio	Lower	Upper
57	100		
41	86.9	69.7	104.5
43	226.9	181.9	272.9
56	53.3	42.5	63.7





#27

Carbon Disulfide

Concen: 18.063 ppbv

RT: 4.62 min Scan# 523

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 76 Resp: 2120928

Ion Ratio Lower Upper

76 100

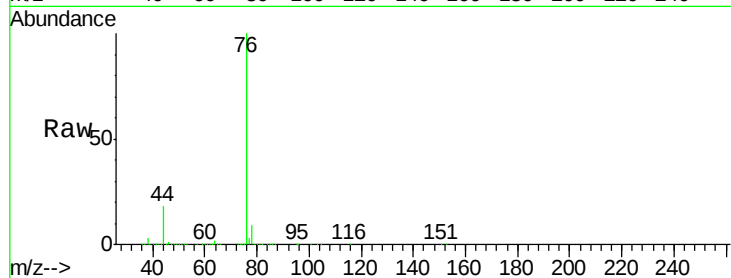
44 17.6 14.4 21.6

78 9.3 7.4 11.2

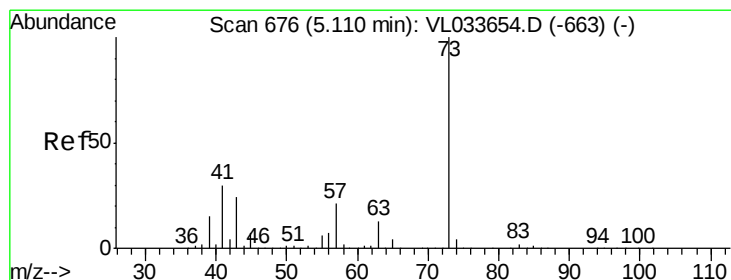
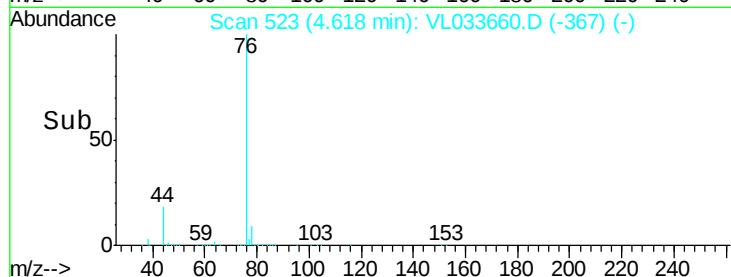
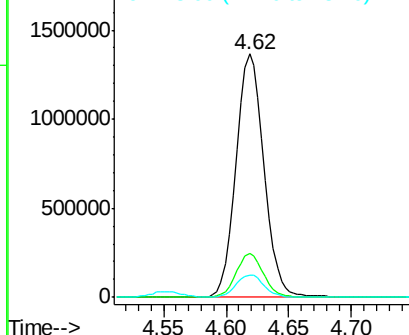
Manual Integrations
APPROVED

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Abundance Ion 76.00 (75.70 to 76.70): VL0
Ion 44.10 (43.80 to 44.80): VL0
Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 15.410 ppbv

RT: 5.11 min Scan# 676

Delta R.T. 0.00 min

Lab File: VL033660.D

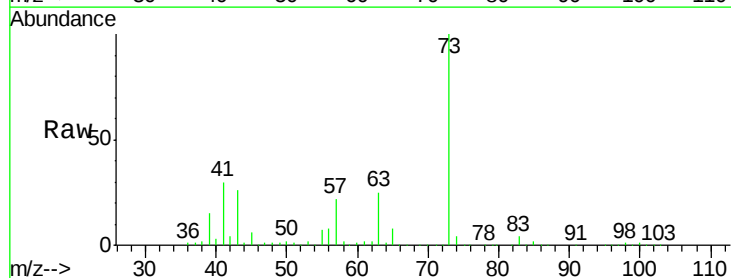
Acq: 6 May 2019 14:51

Tgt Ion: 73 Resp: 2448228

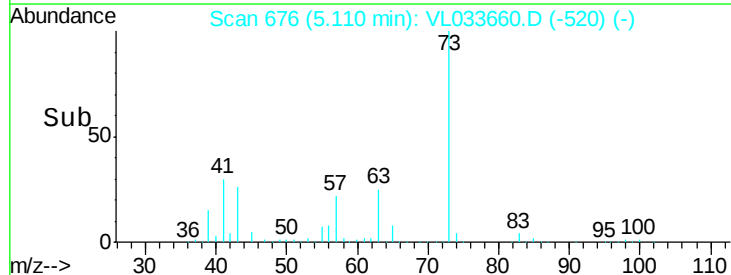
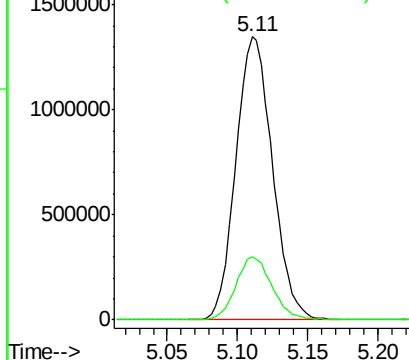
Ion Ratio Lower Upper

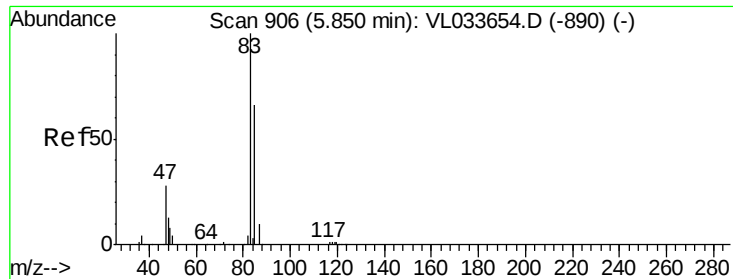
73 100

57 22.0 17.4 26.0



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0





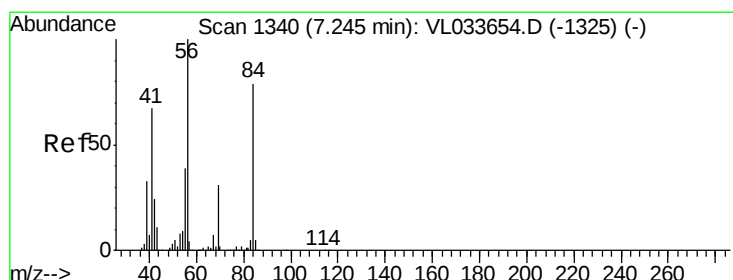
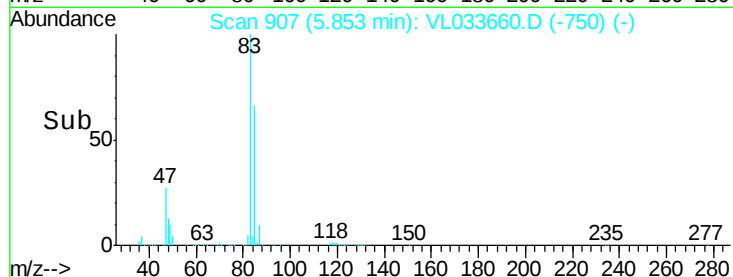
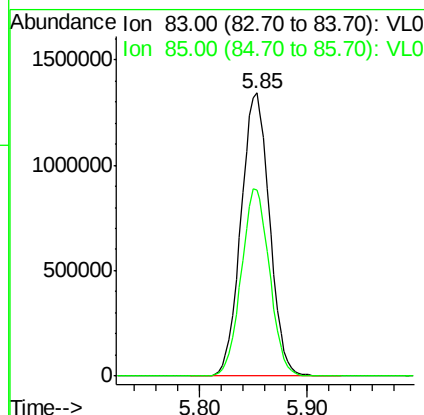
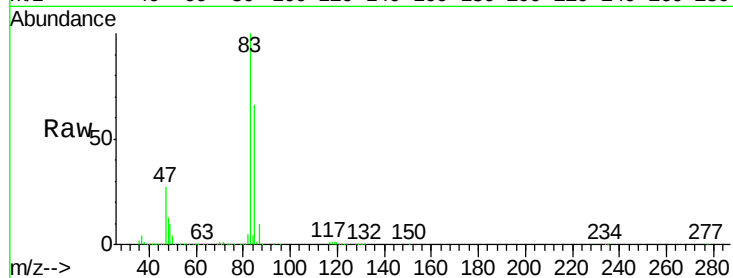
#29
Chloroform
Concen: 14.316 ppbv
RT: 5.85 min Scan# 907
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion: 83 Resp: 2475811
Ion Ratio Lower Upper
83 100
85 65.8 52.6 78.8

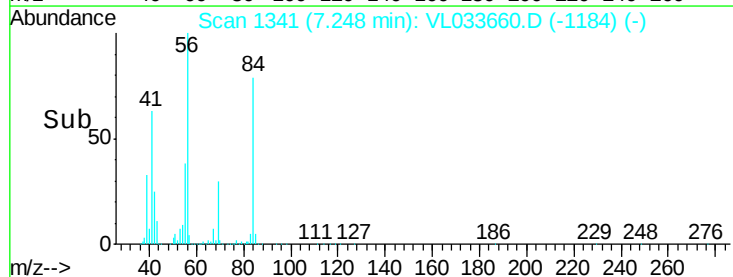
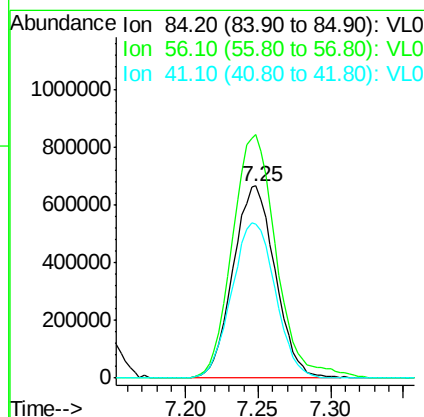
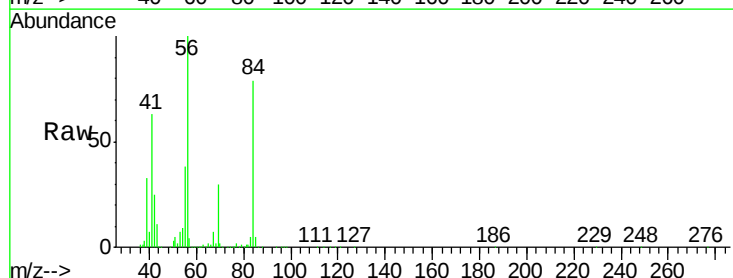
Manual Integrations
APPROVED

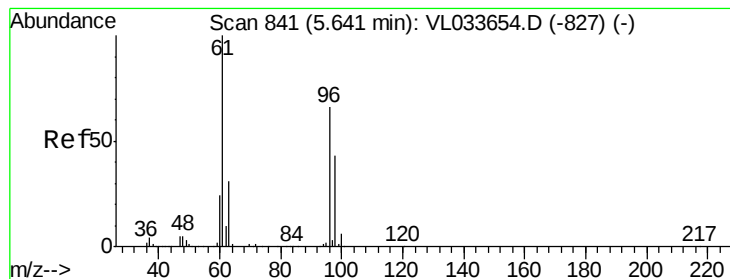
MMDadoda
5/8/2019 12:06:31 PM



#30
Cyclohexane
Concen: 16.793 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tgt Ion: 84 Resp: 1346166
Ion Ratio Lower Upper
84 100
56 132.3 107.0 160.4
41 83.4 66.6 99.8





#31

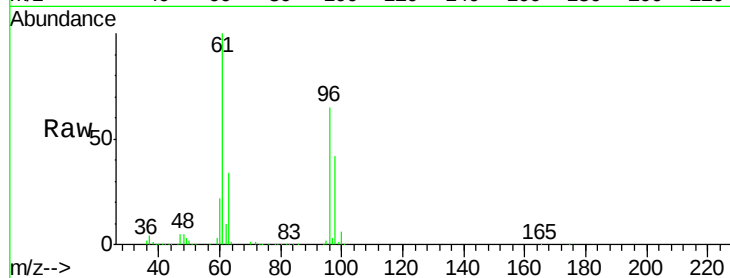
cis-1,2-Dichloroethene
Concen: 15.960 ppbv
RT: 5.64 min Scan# 842
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
61	100		
96	64.6	53.2	79.8
98	41.7	34.2	51.4

Manual Integrations
APPROVED

MMDadoda
5/8/2019 12:06:31 PM

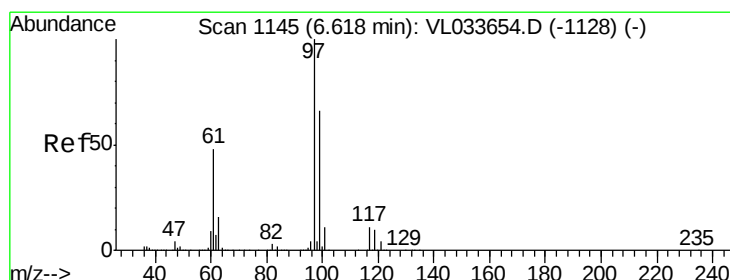
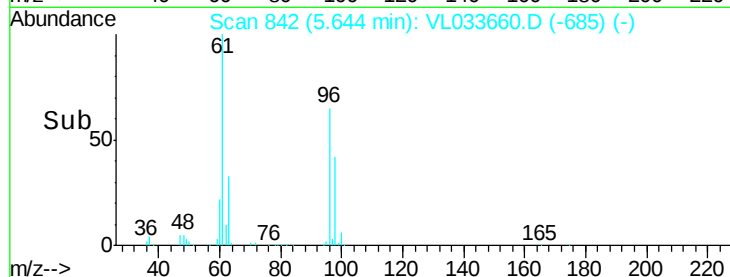
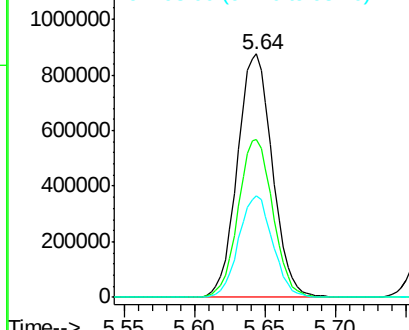


Abundance

Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

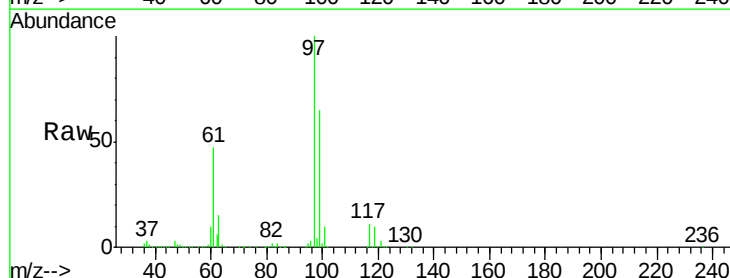
Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane
Concen: 14.581 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.5	77.3
61	47.8	38.5	57.7

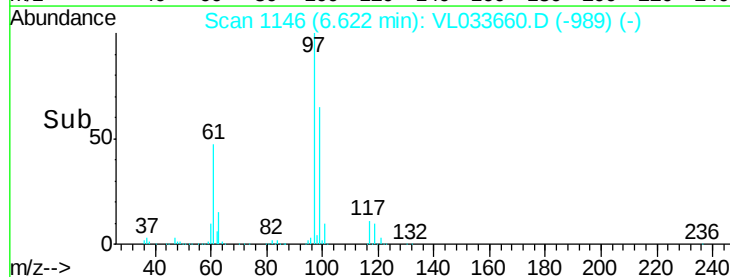
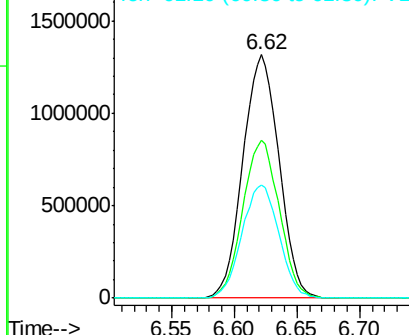


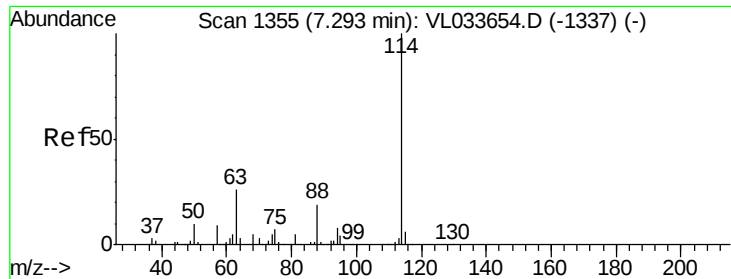
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0





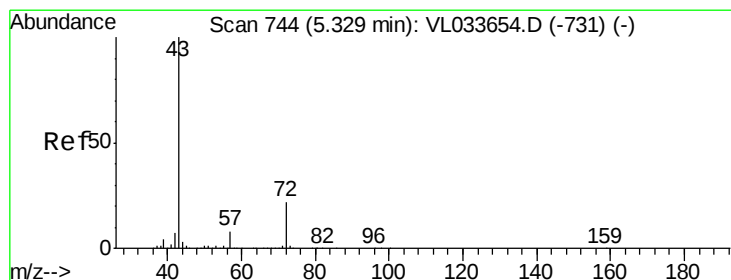
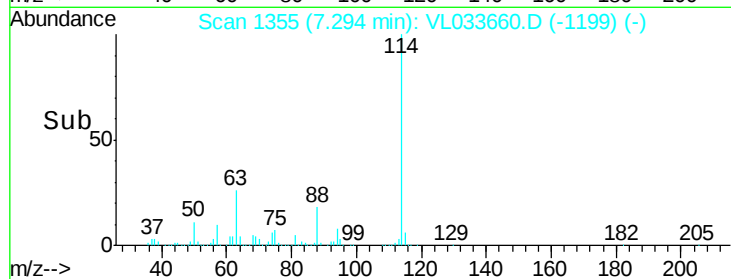
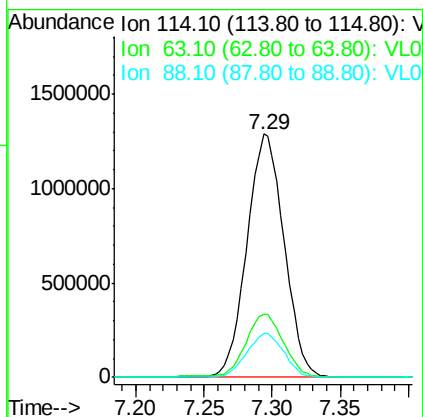
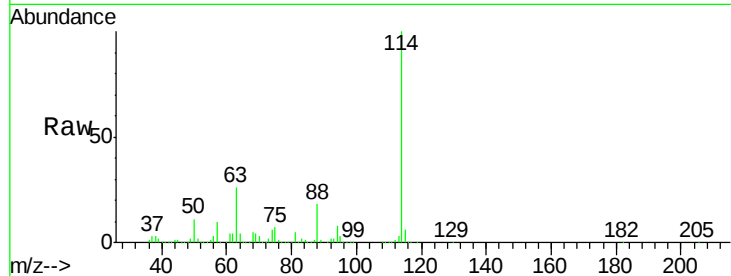
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.2	31.8
88	18.2	14.4	21.6

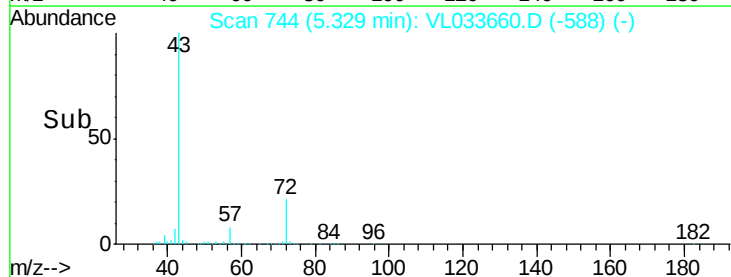
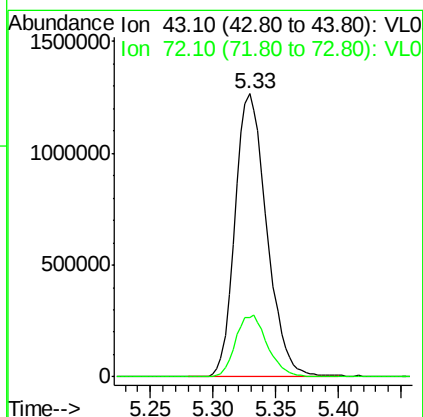
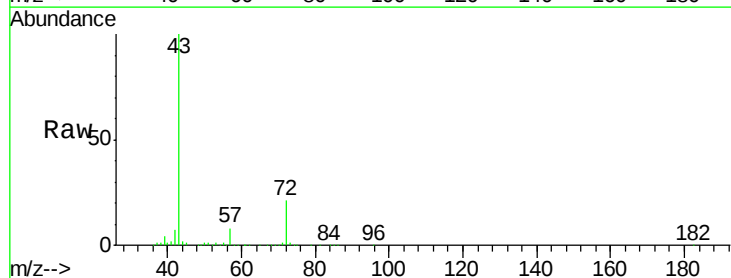
Manual Integrations
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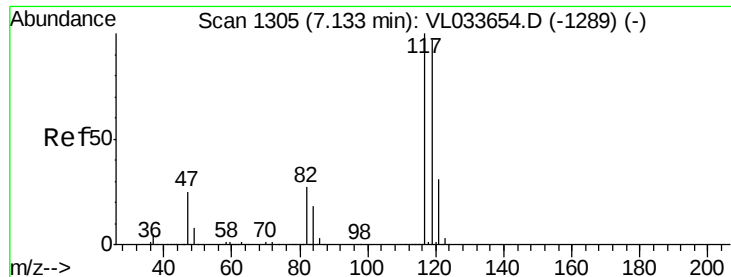
MMDadoda
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#34
 2-Butanone
 Concen: 14.758 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.0	17.4	26.2





#35

Carbon Tetrachloride

Concen: 15.005 ppbv

RT: 7.14 min Scan# 1306

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:117 Resp: 2928165

Ion Ratio Lower Upper

117 100

119 96.0 77.9 116.9

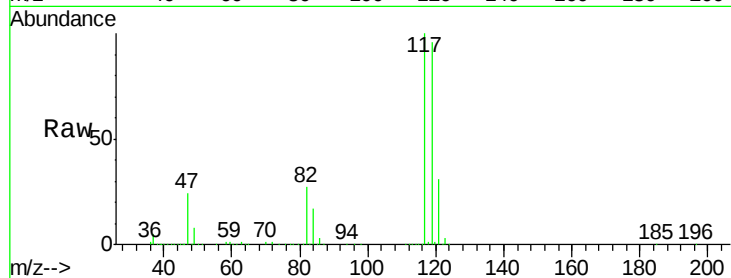
121 30.8 25.0 37.6

Manual Integrations

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MMDadoda

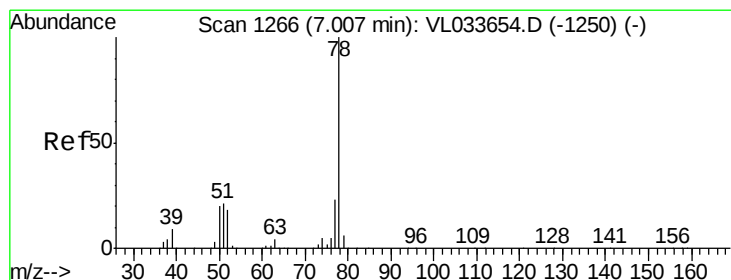
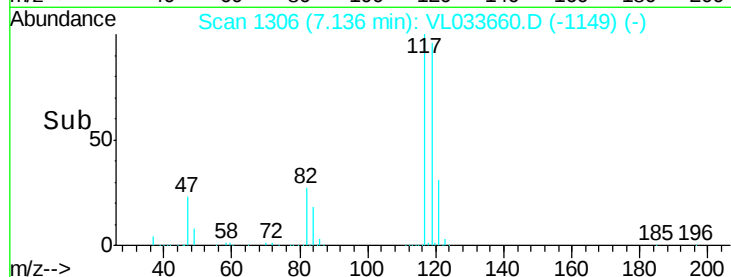
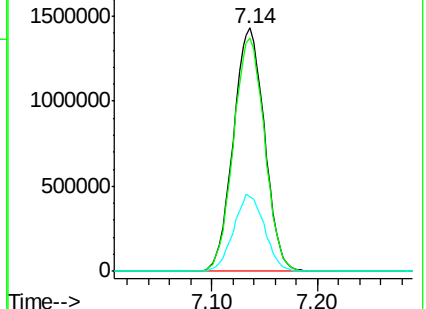
5/8/2019 12:06:31 PM



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: 15.028 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

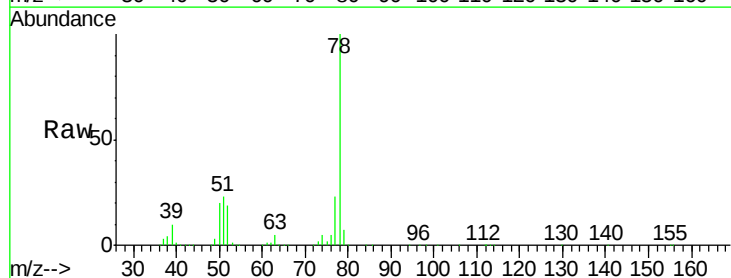
Tgt Ion: 78 Resp: 3163845

Ion Ratio Lower Upper

78 100

77 23.2 18.2 27.2

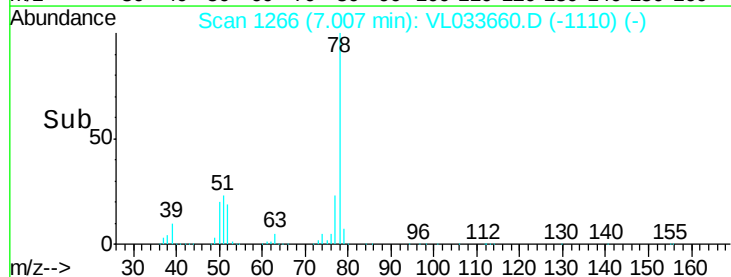
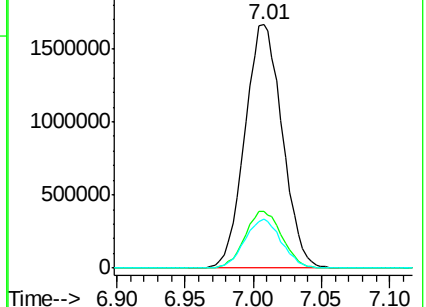
50 20.0 15.8 23.6

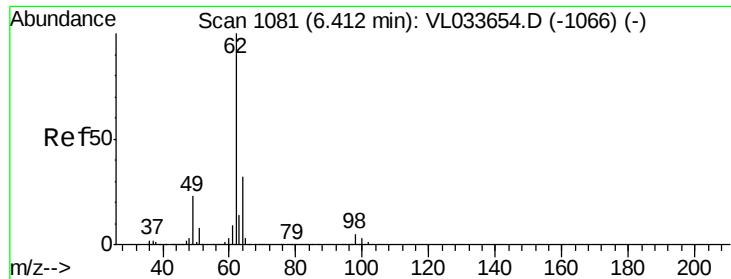


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





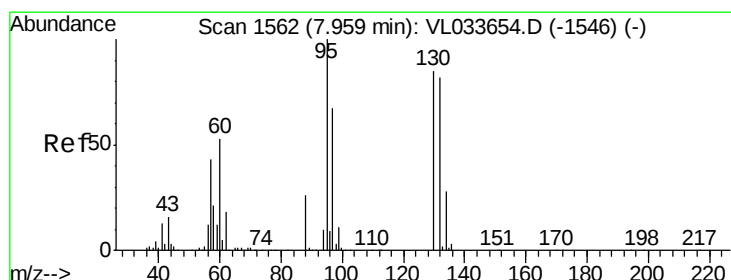
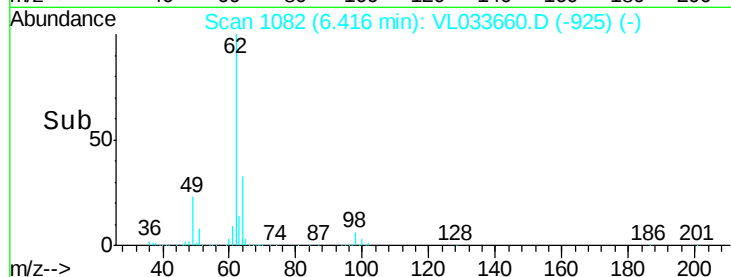
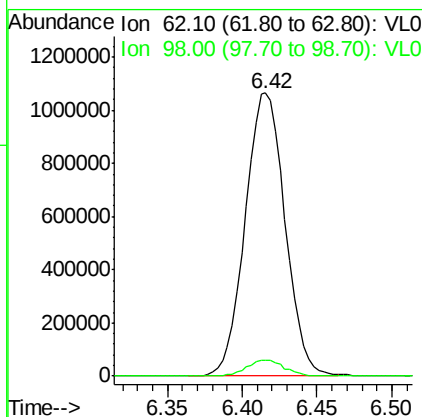
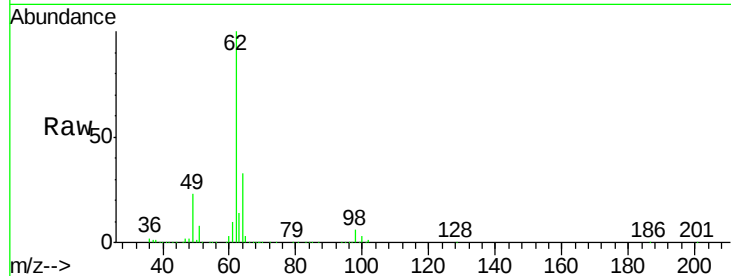
#37
 1,2-Dichloroethane
 Concen: 14.129 ppbv
 RT: 6.42 min Scan# 1082
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 62 Resp: 1974459
 Ion Ratio Lower Upper
 62 100
 98 5.5 4.5 6.7

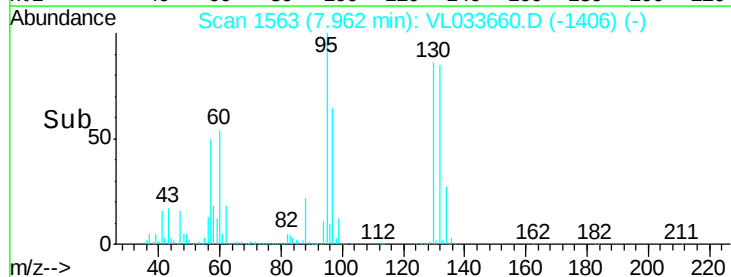
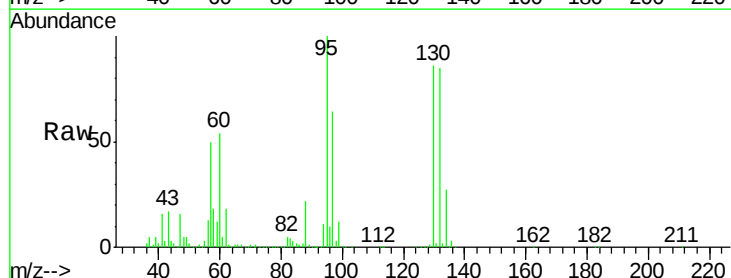
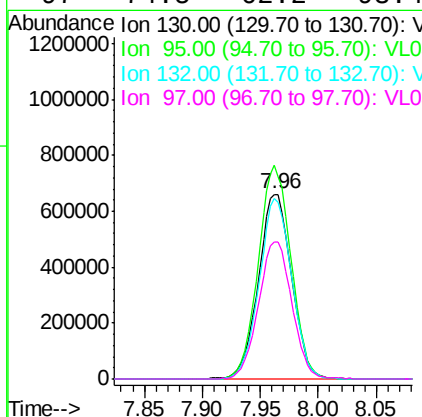
Manual Integrations
 APPROVED

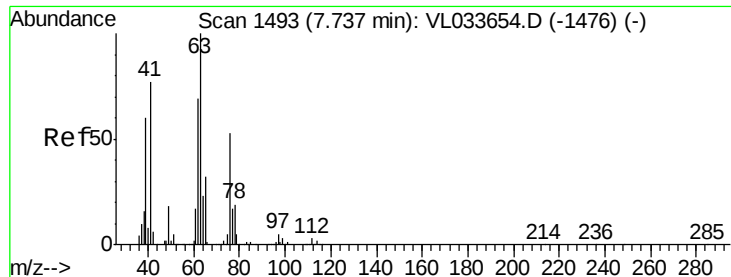
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#38
 Trichloroethene
 Concen: 15.750 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Tgt Ion:130 Resp: 1317188
 Ion Ratio Lower Upper
 130 100
 95 115.7 93.4 140.0
 132 98.0 76.2 114.4
 97 74.5 62.2 93.4





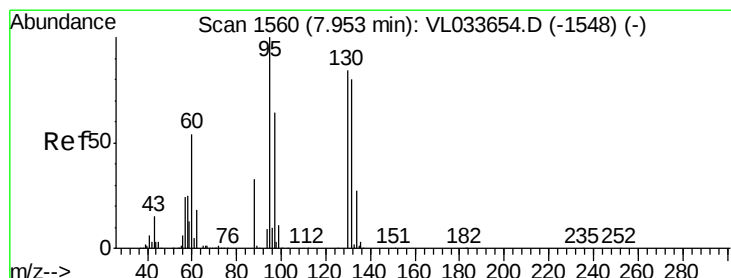
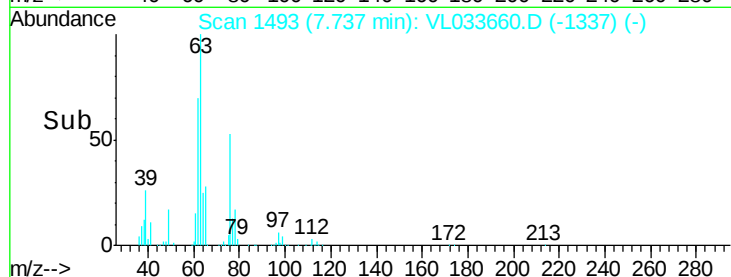
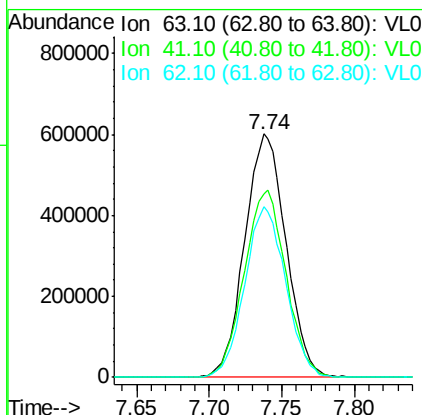
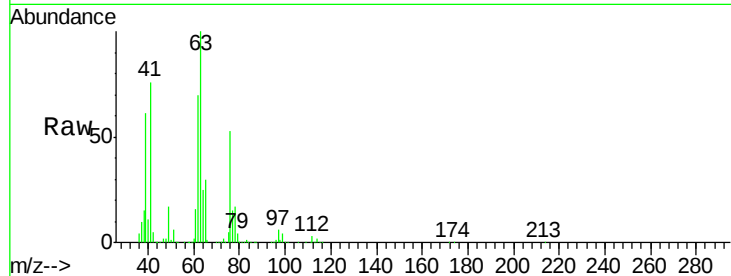
#39
 1,2-Dichloropropane
 Concen: 15.114 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ratio	Lower	Upper
63	100		
41	75.4	61.6	92.4
62	70.2	55.0	82.6

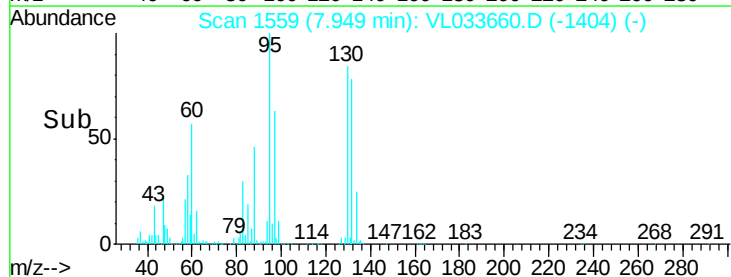
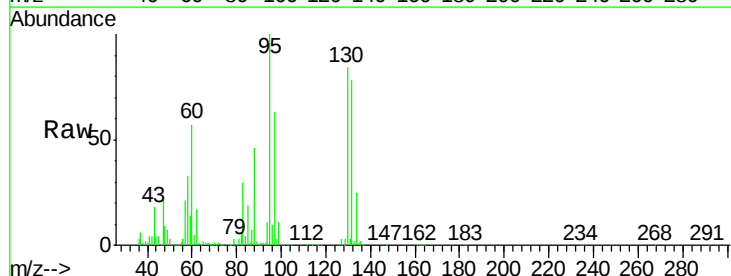
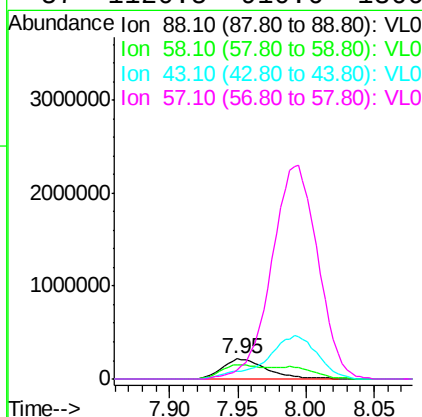
Manual Integrations
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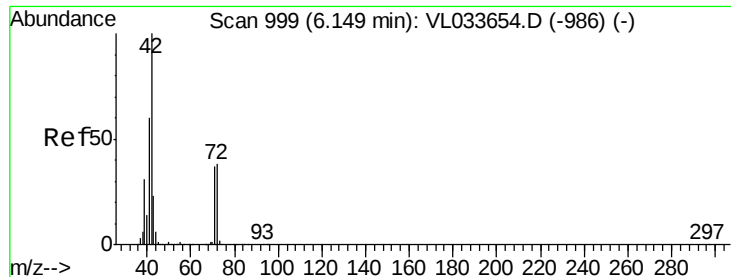
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 5/8/2019 12:06:31 PM



#40
 1,4-Dioxane
 Concen: 15.259 ppbv
 RT: 7.95 min Scan# 1559
 Delta R.T. -0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Tgt Ion	Ratio	Lower	Upper
88	100		
58	126.4	102.3	153.5
43	253.6	206.1	309.1
57	1120.5	910.6	1366.0





#41

Tetrahydrofuran

Concen: 15.484 ppbv

RT: 6.15 min Scan# 998

Delta R.T. -0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 42 Resp: 1249868

Ion Ratio Lower Upper

42 100

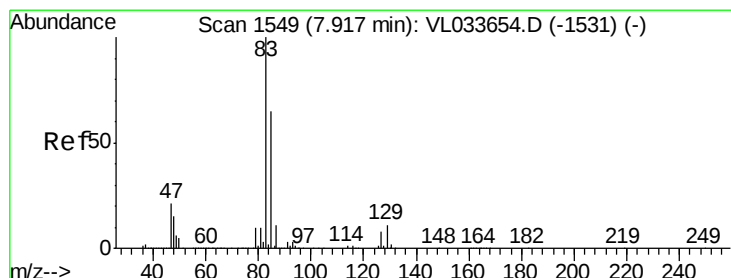
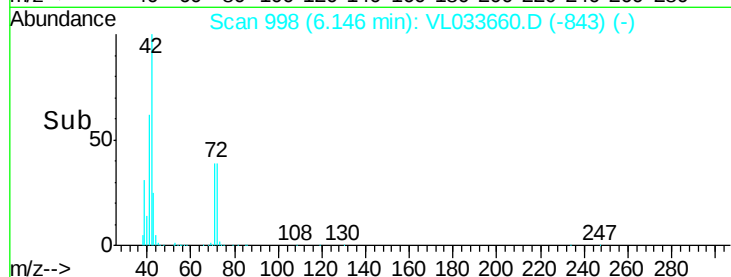
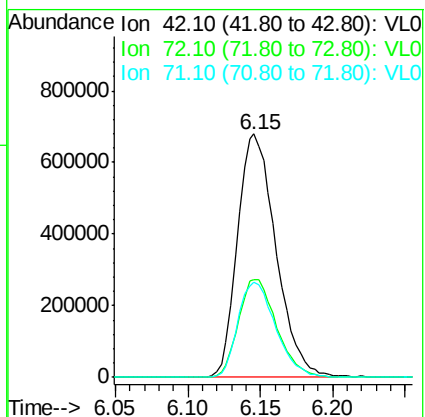
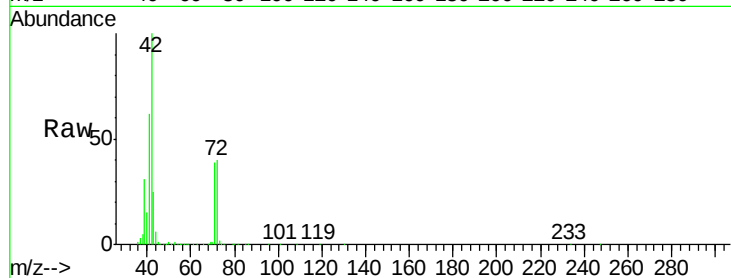
72 40.1 31.6 47.4

71 38.7 30.6 45.8

Manual Integrations
APPROVED

MMDadoda

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#42

Bromodichloromethane

Concen: 15.338 ppbv

RT: 7.92 min Scan# 1550

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

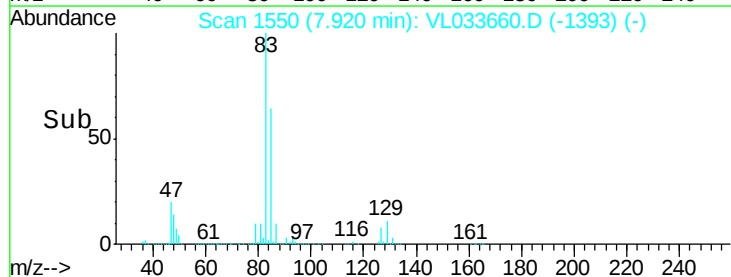
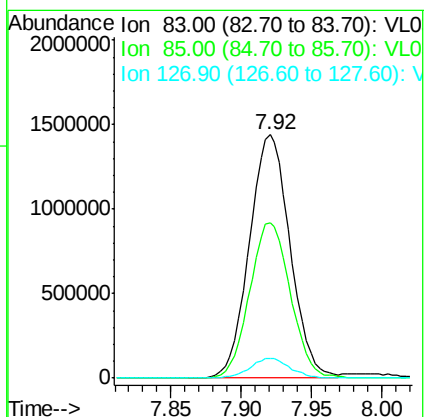
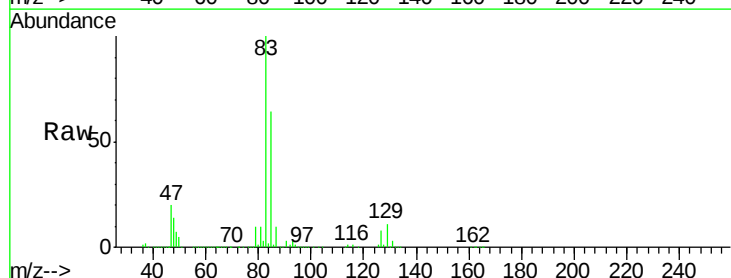
Tgt Ion: 83 Resp: 2904790

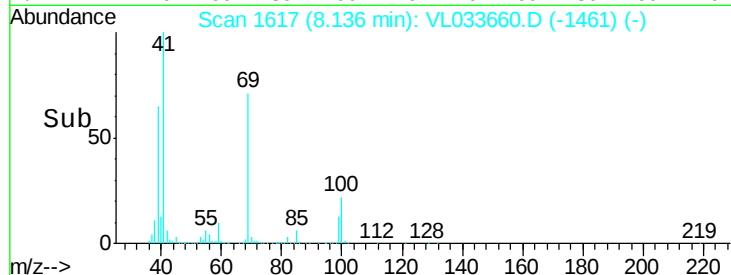
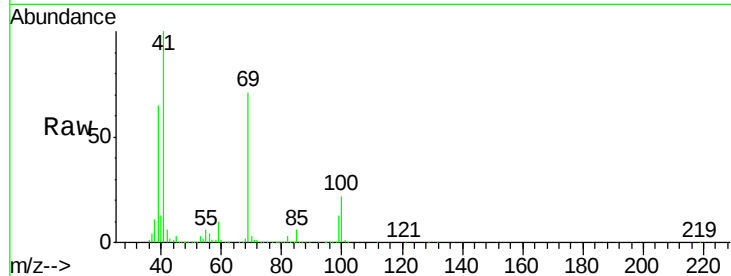
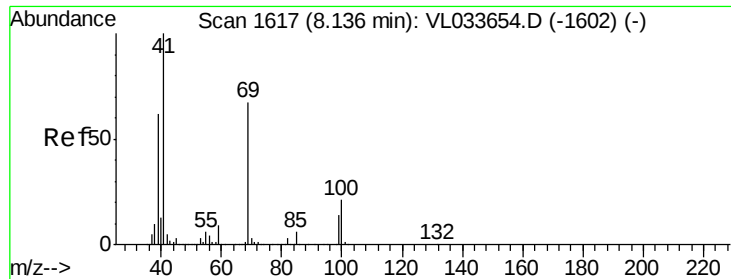
Ion Ratio Lower Upper

83 100

85 64.0 52.4 78.6

127 8.2 6.6 9.8





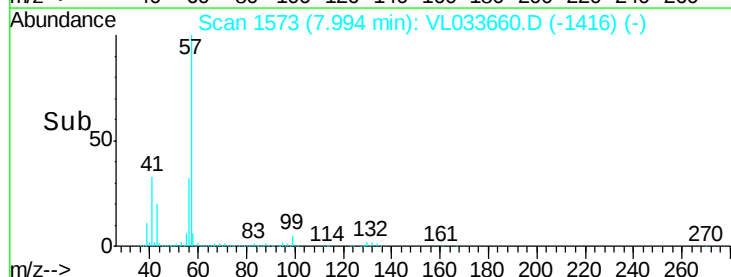
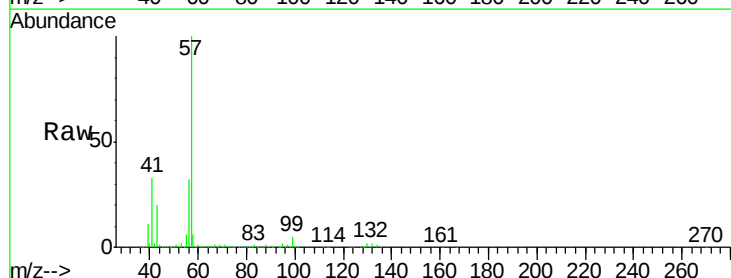
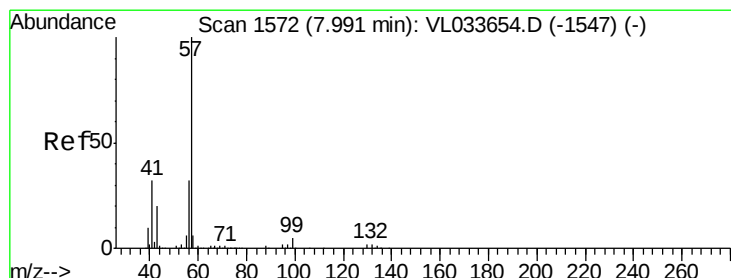
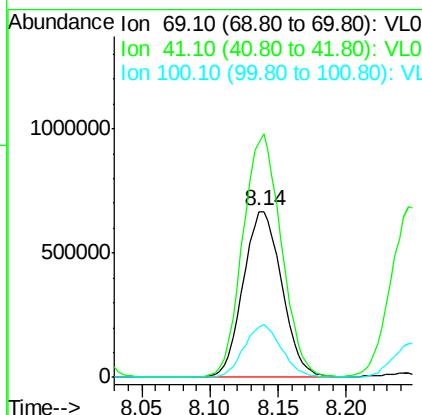
#43
Methvl Methacrilate
Concen: 16.598 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tot Ion: 69 Resp: 1317589
Ion Ratio Lower Upper
69 100
41 145.3 116.5 174.7
100 30.7 24.6 37.0

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

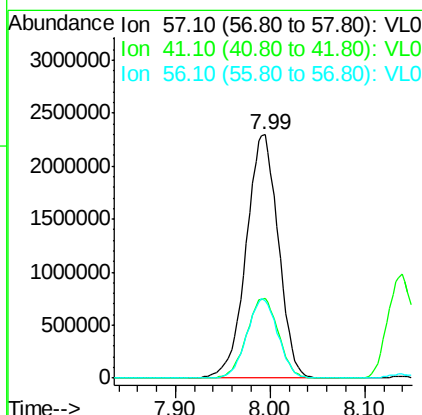
Manual Integrations
APPROVED

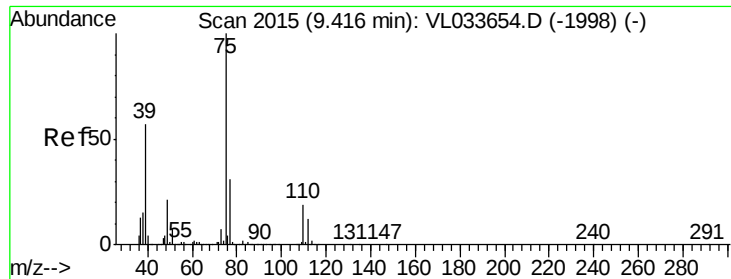
MMDadoda
5/8/2019 12:06:31 PM



#44
2,2,4-Trimethylpentane
Concen: 14.807 ppbv
RT: 7.99 min Scan# 1573
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tgt Ion: 57 Resp: 5416655
Ion Ratio Lower Upper
57 100
41 32.3 25.7 38.5
56 31.4 25.0 37.6





#45

t-1,3-Dichloropropene

Concen: 18.383 ppbv

RT: 9.42 min Scan# 2016

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 75 Resp: 1882995

Ion Ratio Lower Upper

75 100

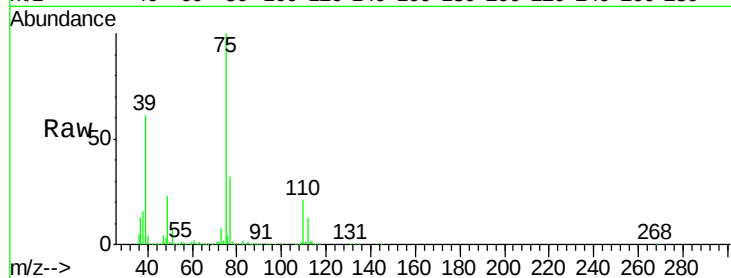
77 32.3 24.7 37.1

Manual Integrations

APPROVED

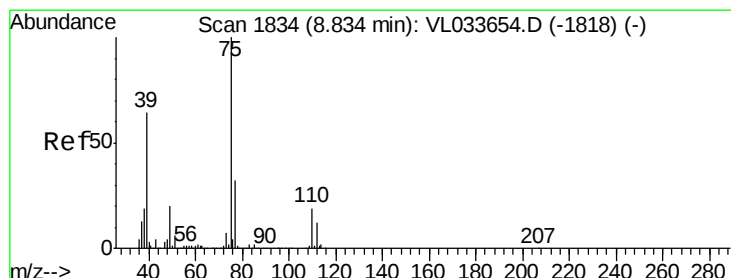
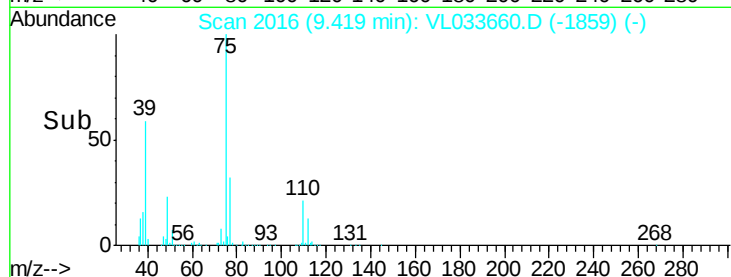
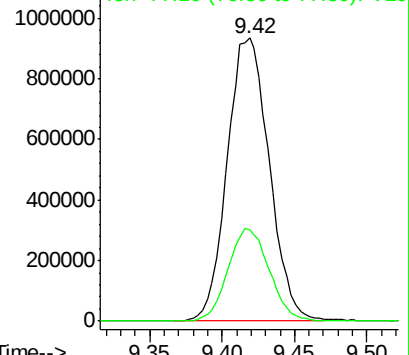
MMDadoda

5/8/2019 12:06:31 PM



Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 17.192 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

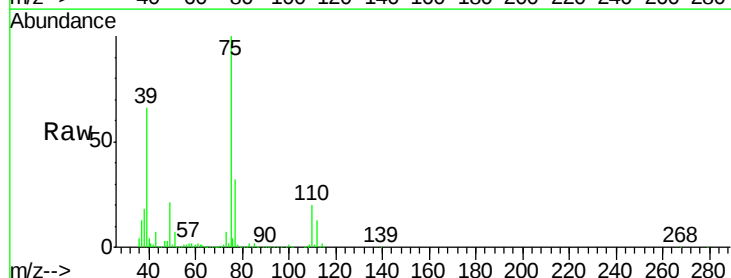
Tgt Ion: 75 Resp: 2038071

Ion Ratio Lower Upper

75 100

39 66.1 51.5 77.3

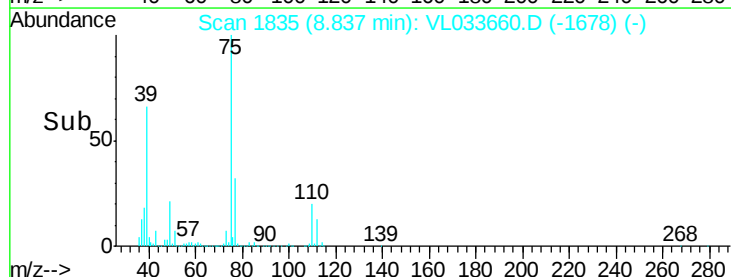
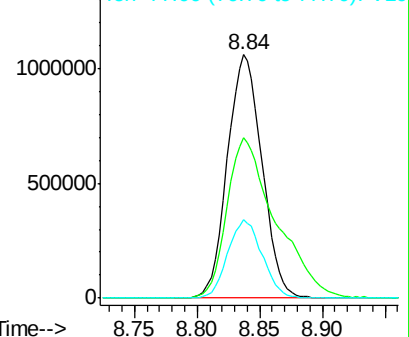
77 32.2 25.4 38.0

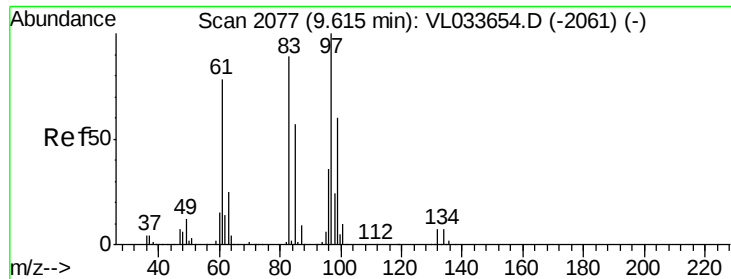


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





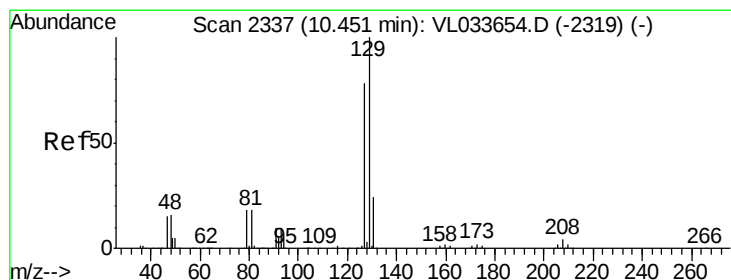
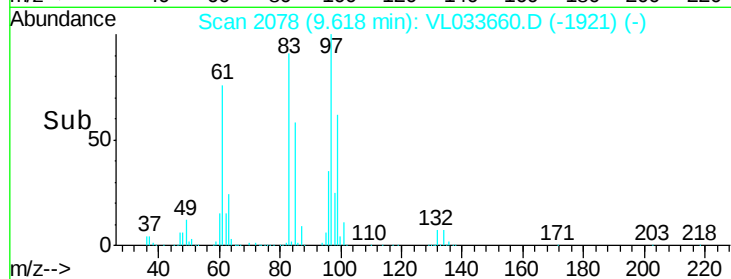
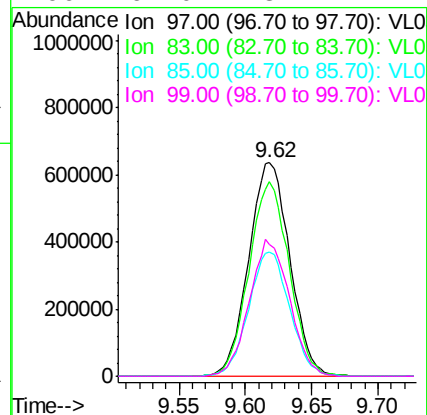
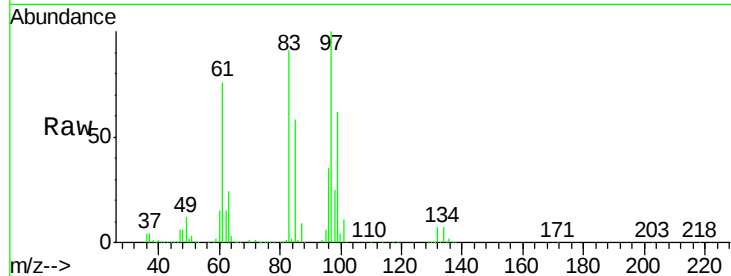
#47
 1,1,2-Trichloroethane
 Concen: 14.750 ppbv
 RT: 9.62 min Scan# 2078
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion	Ion	Ratio	Lower	Upper
97	100			
83	90.8	70.9	106.3	
85	58.1	45.8	68.6	
99	62.0	48.2	72.4	

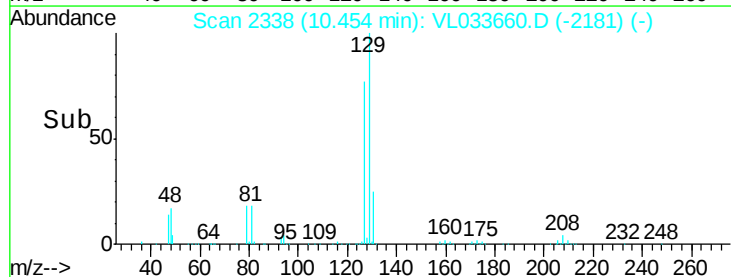
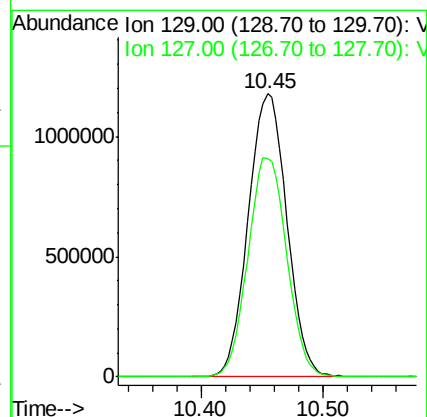
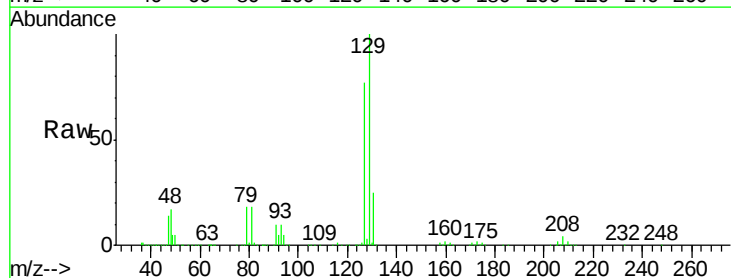
Manual Integrations
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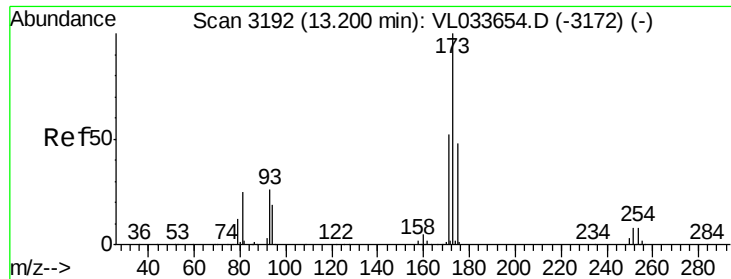
MMDadoda
 5/8/2019 12:06:31 PM



#48
 Dibromochloromethane
 Concen: 16.438 ppbv
 RT: 10.45 min Scan# 2338
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	78.0	39.1	117.2	





#49

Bromoform

Concen: 17.174 ppbv

RT: 13.21 min Scan# 3194

Delta R.T. 0.01 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:173 Resp: 2308958

Ion Ratio Lower Upper

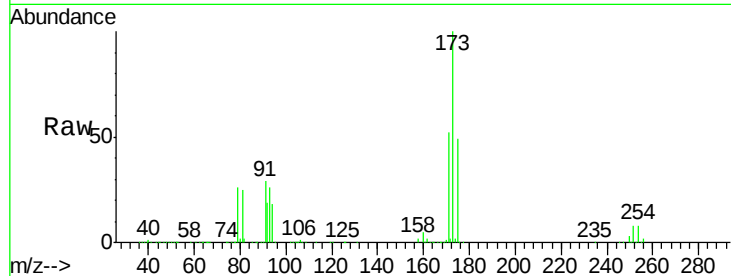
173 100

175 48.4 39.3 58.9

171 51.7 41.5 62.3

Manual Integrations
APPROVED

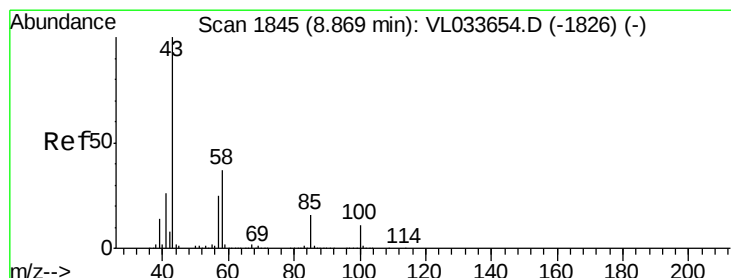
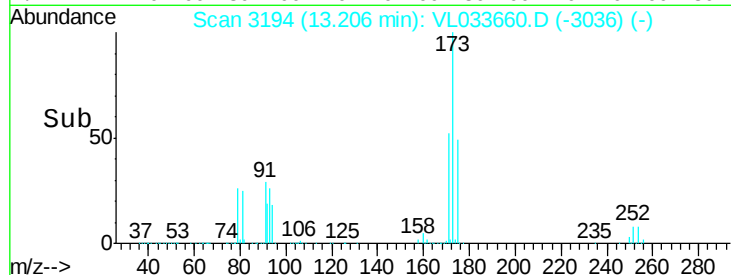
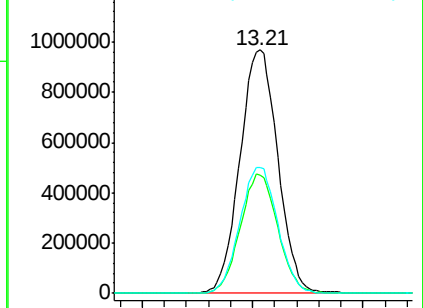
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Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 15.024 ppbv

RT: 8.87 min Scan# 1845

Delta R.T. 0.00 min

Lab File: VL033660.D

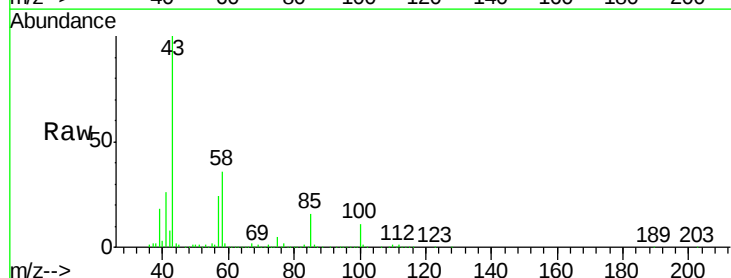
Acq: 6 May 2019 14:51

Tgt Ion: 43 Resp: 3543659

Ion Ratio Lower Upper

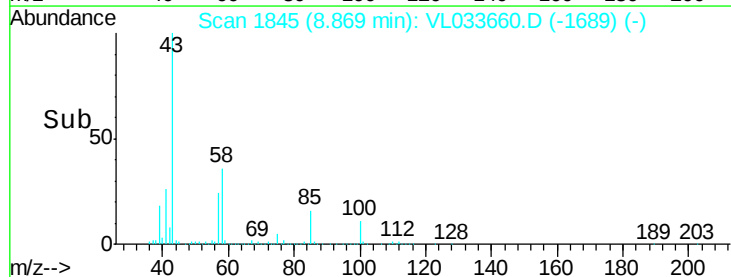
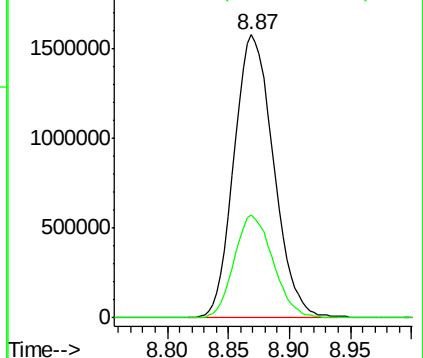
43 100

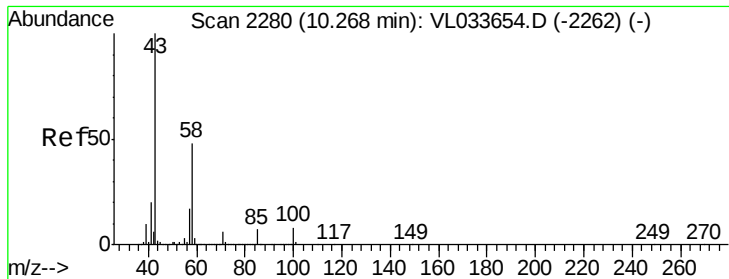
58 35.8 28.8 43.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





#51

2-Hexanone

Concen: 16.387 ppbv

RT: 10.27 min Scan# 2281

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 43 Resp: 3034634

Ion Ratio Lower Upper

43 100

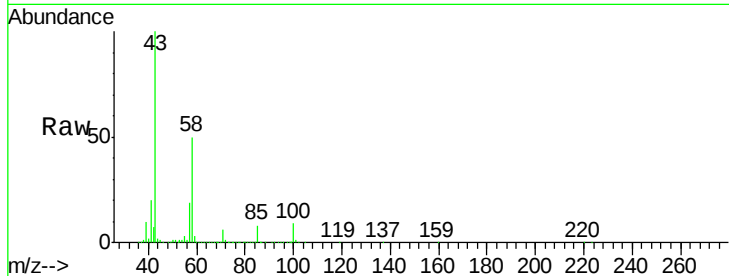
58 48.5 38.2 57.4

98 0.1 0.2 0.4#

Manual Integrations
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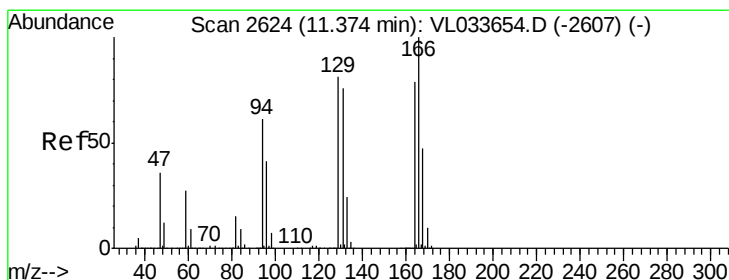
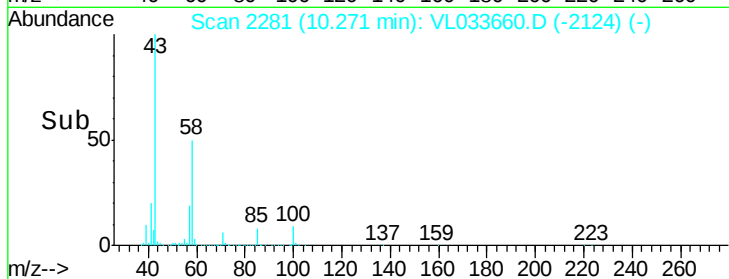
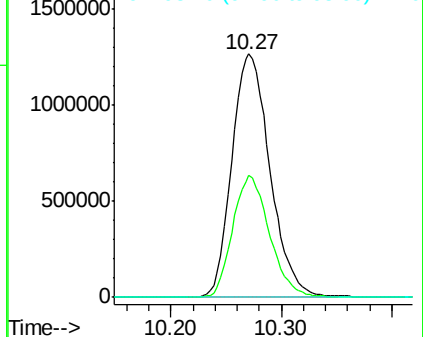
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 15.669 ppbv

RT: 11.38 min Scan# 2625

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Tgt Ion:164 Resp: 1249479

Ion Ratio Lower Upper

164 100

166 126.5 100.6 151.0

129 104.4 81.0 121.6

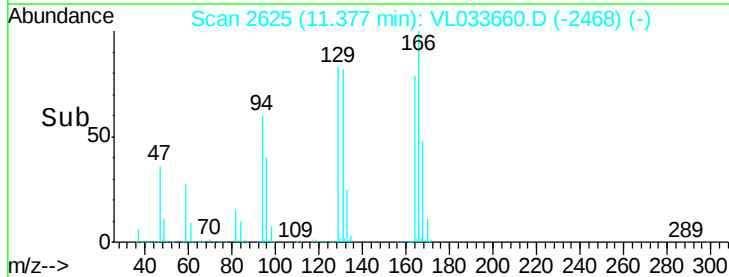
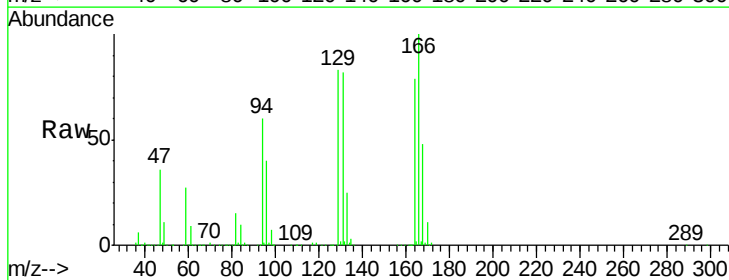
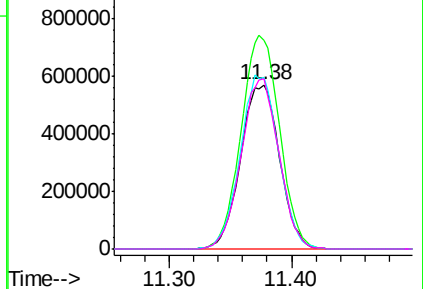
131 103.2 76.4 114.6

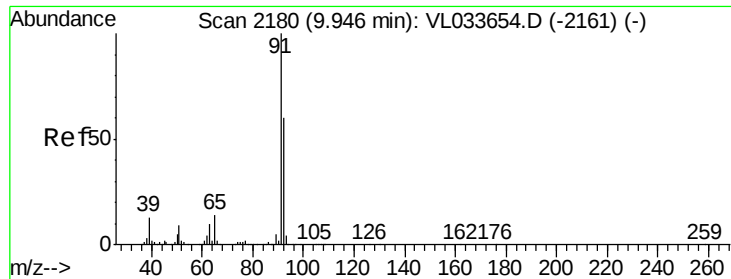
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 16.268 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 3864664

Ion Ratio Lower Upper

91 100

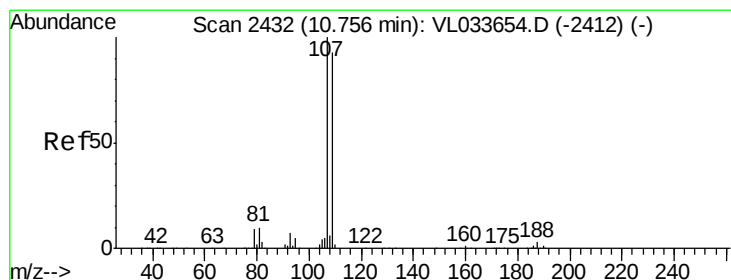
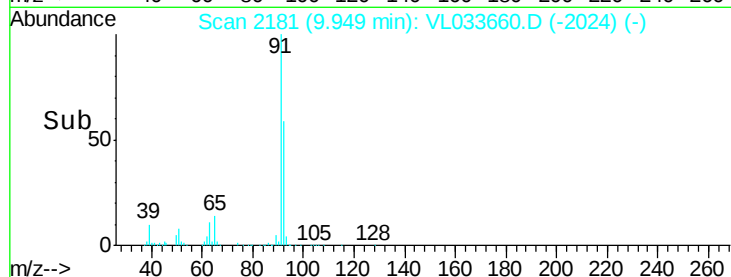
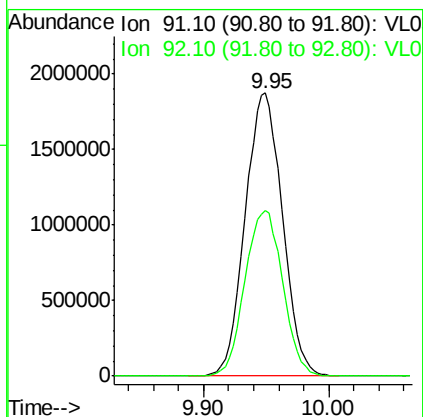
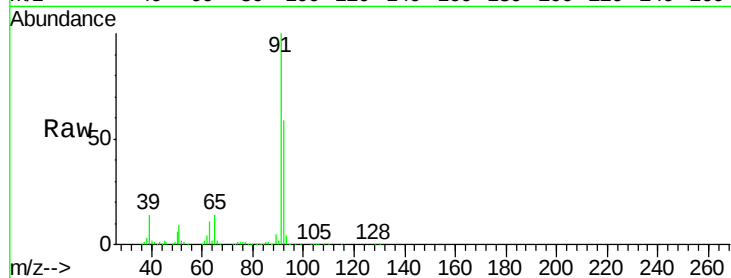
92 59.3 47.8 71.6

Manual Integrations

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#54

1,2-Dibromoethane

Concen: 15.804 ppbv

RT: 10.76 min Scan# 2434

Delta R.T. 0.01 min

Lab File: VL033660.D

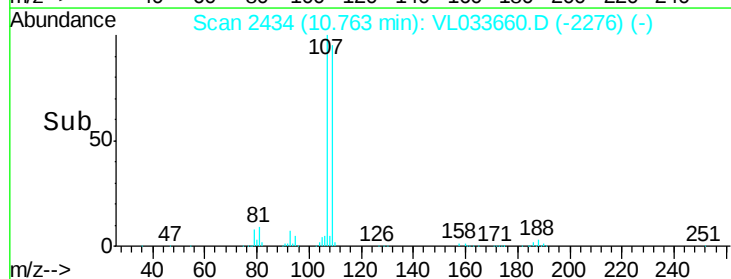
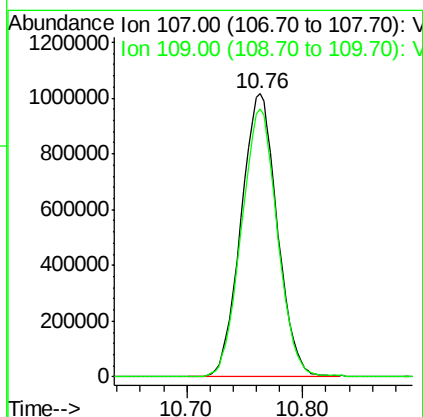
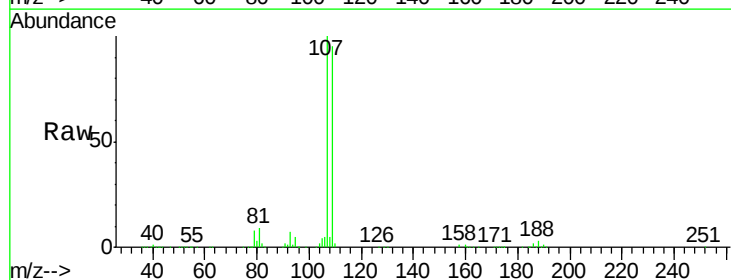
Acq: 6 May 2019 14:51

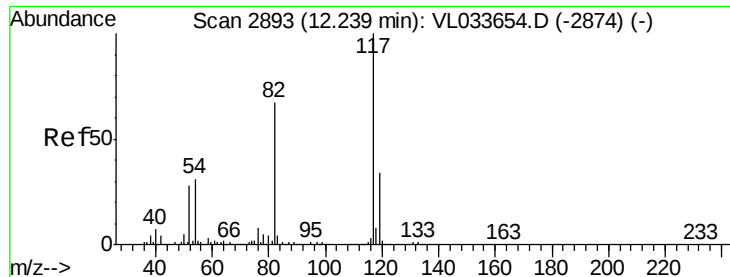
Tgt Ion: 107 Resp: 2203326

Ion Ratio Lower Upper

107 100

109 94.8 74.6 111.8





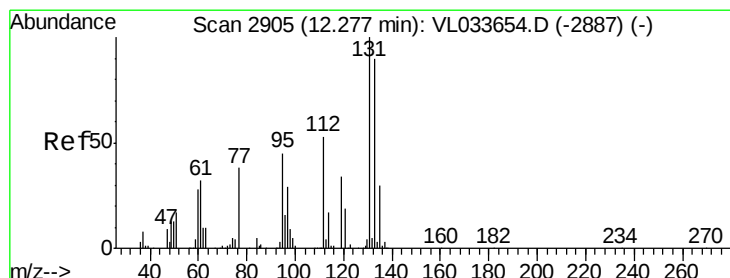
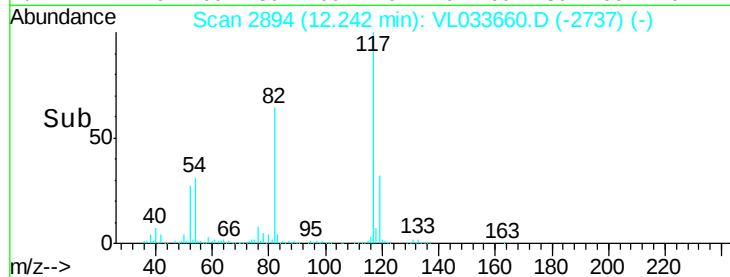
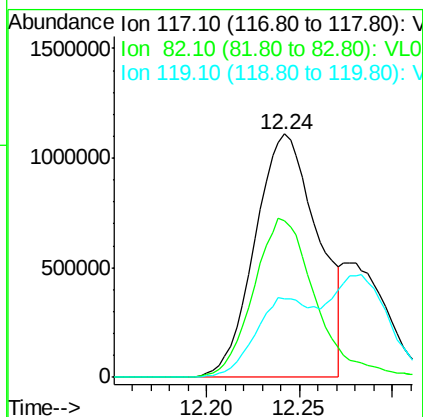
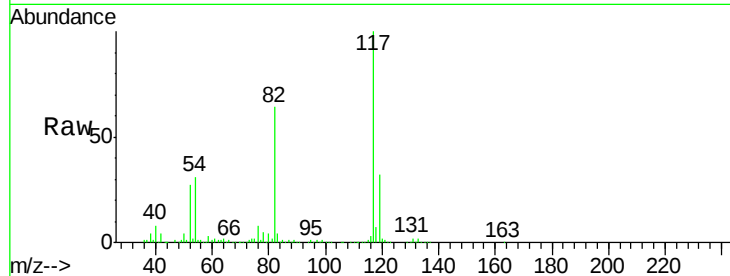
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:117 Resp: 2622260
Ion Ratio Lower Upper
117 100
82 64.9 49.7 74.5
119 0.0 23.3 34.9#

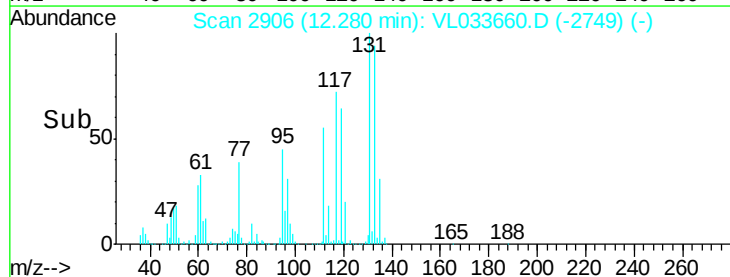
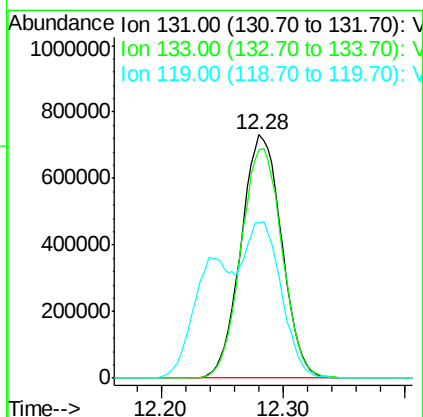
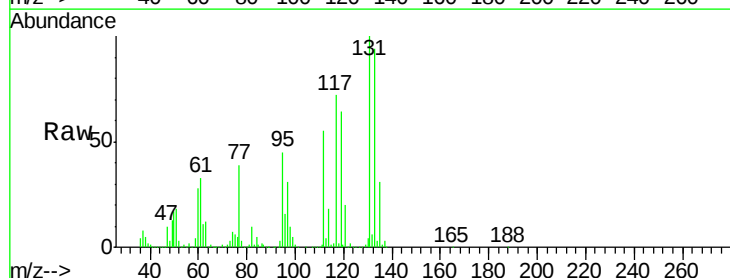
Manual Integrations
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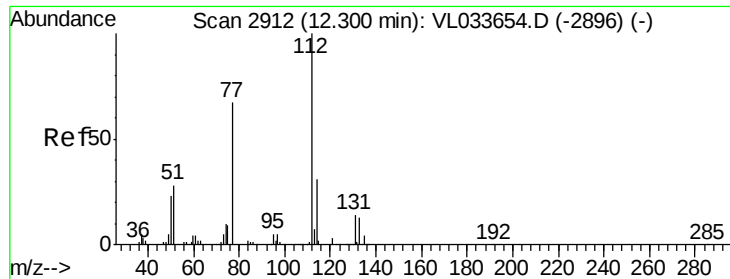
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#56
1,1,1,2-Tetrachloroethane
Concen: 14.654 ppbv
RT: 12.28 min Scan# 2906
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tgt Ion:131 Resp: 1682666
Ion Ratio Lower Upper
131 100
133 95.8 76.1 114.1
119 108.6 49.4 74.0#





#57

Chlorobenzene

Concen: 14.355 ppbv

RT: 12.30 min Scan# 2913

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 112 Resp: 2936333

Ion Ratio Lower Upper

112 100

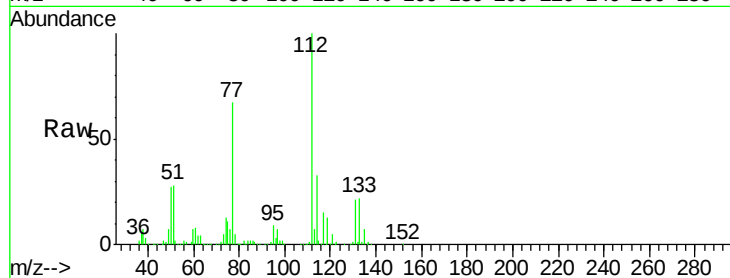
77 67.0 54.4 81.6

114 33.2 28.2 34.4

Manual Integrations
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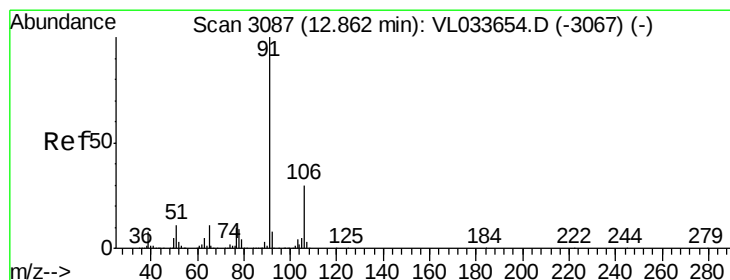
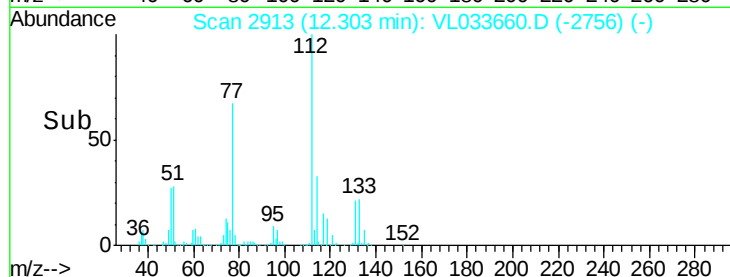
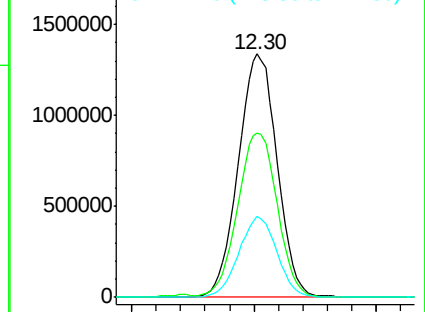
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Abundance Ion 112.10 (111.80 to 112.80): V

Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58

Ethyl Benzene

Concen: 16.144 ppbv

RT: 12.87 min Scan# 3088

Delta R.T. 0.00 min

Lab File: VL033660.D

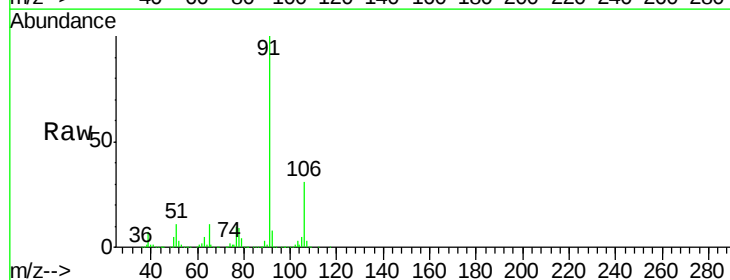
Acq: 6 May 2019 14:51

Tgt Ion: 91 Resp: 5314504

Ion Ratio Lower Upper

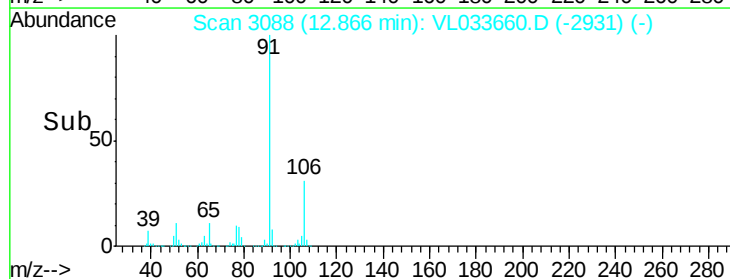
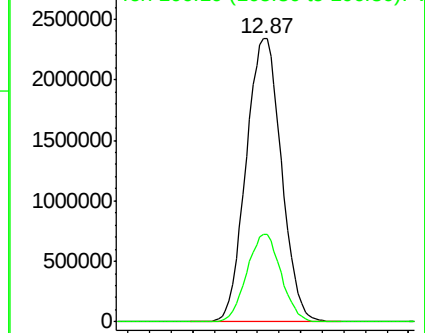
91 100

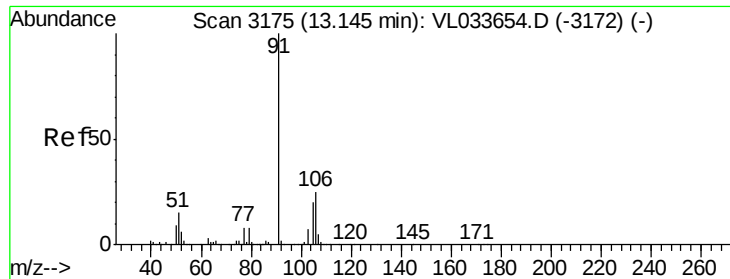
106 30.9 23.7 35.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#59

m/p-Xylene

Concen: 31.156 ppbv m

RT: 13.15 min Scan# 3177

Delta R.T. 0.01 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 8828654

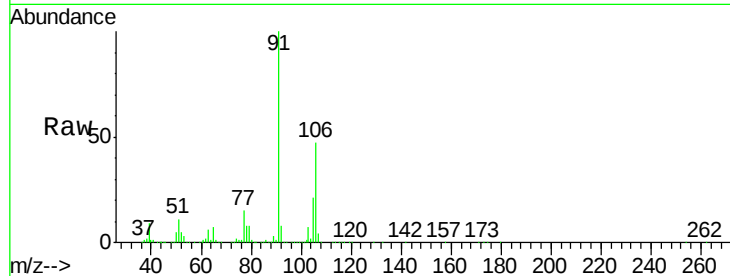
Ion Ratio Lower Upper

91 100

106 45.8 35.9 53.9

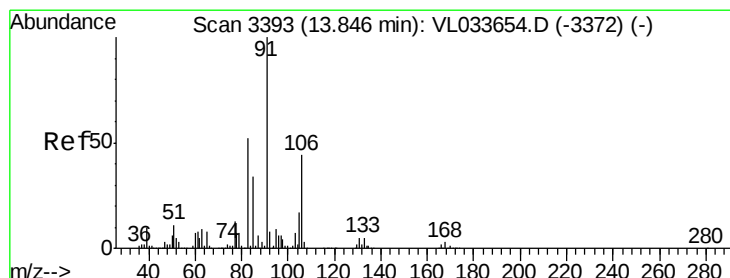
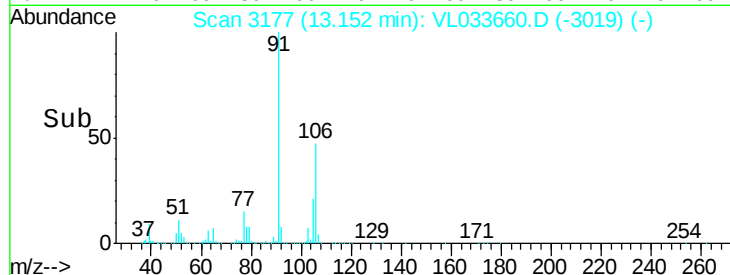
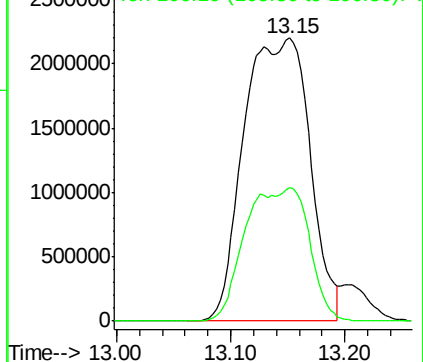
Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 15.672 ppbv

RT: 13.85 min Scan# 3395

Delta R.T. 0.01 min

Lab File: VL033660.D

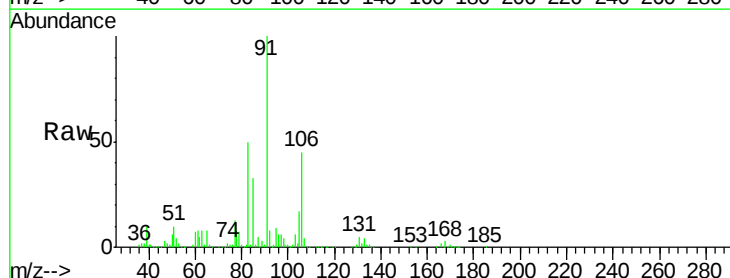
Acq: 6 May 2019 14:51

Tgt Ion: 91 Resp: 4473593

Ion Ratio Lower Upper

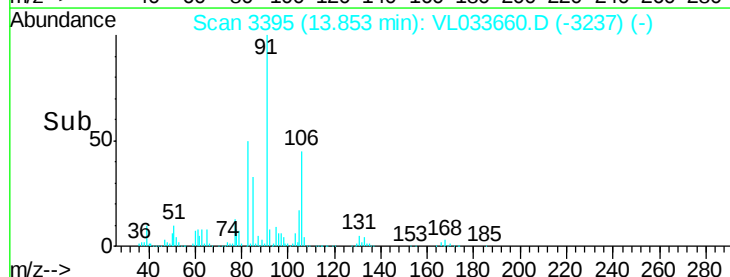
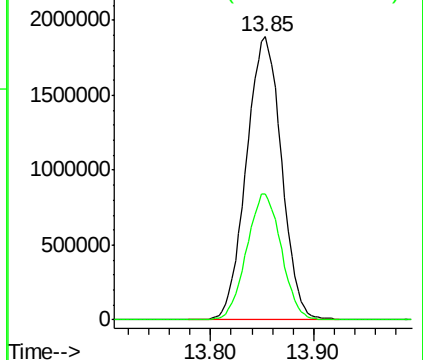
91 100

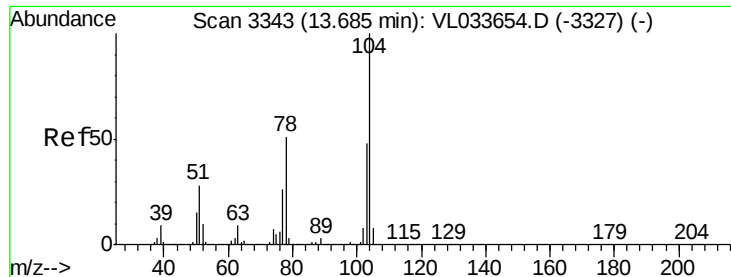
106 44.1 21.7 65.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





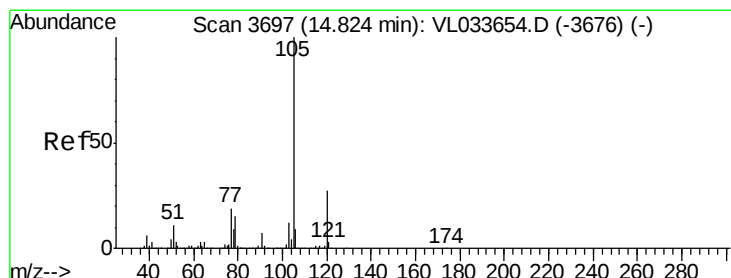
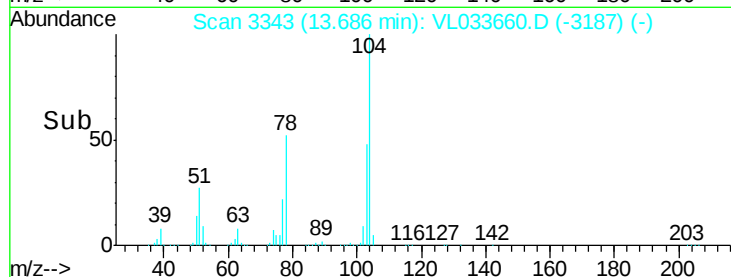
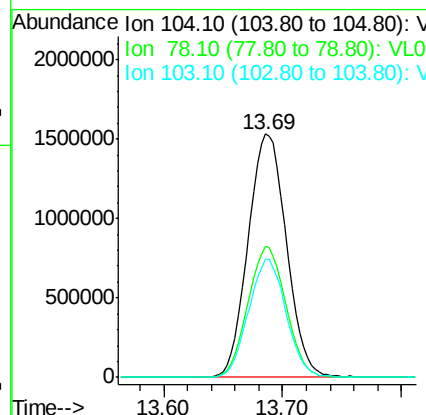
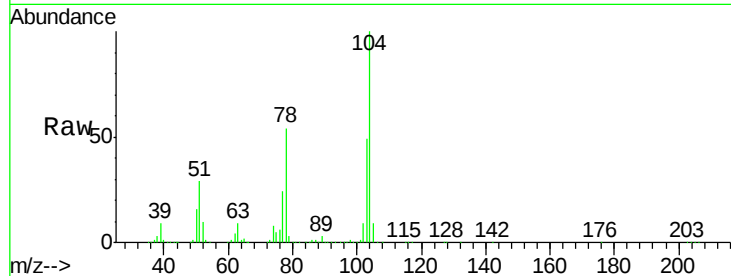
#61
Stvrene
Concen: 17.459 ppbv
RT: 13.69 min Scan# 3343
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion:104 Resp: 3418573
Ion Ratio Lower Upper
104 100
78 53.3 43.0 64.6
103 47.5 38.1 57.1

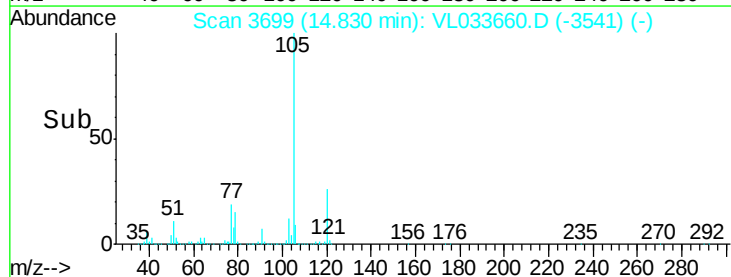
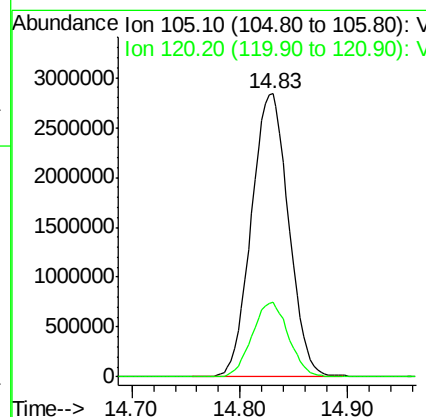
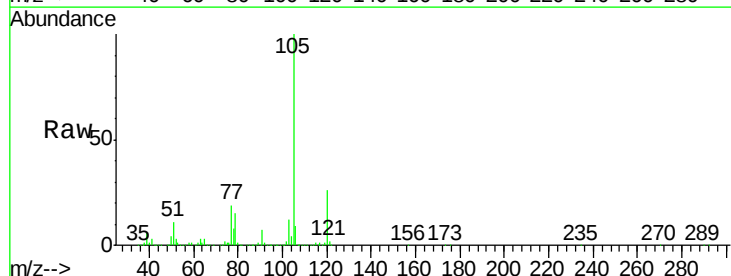
Manual Integrations
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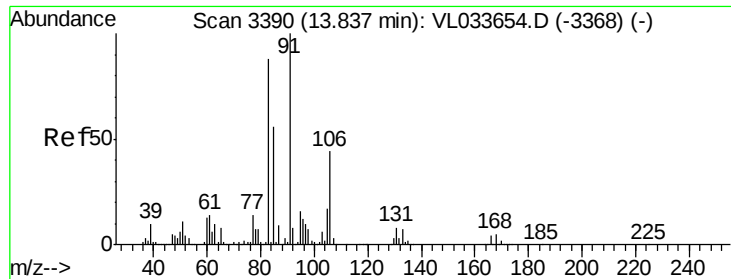
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#62
Isopropylbenzene
Concen: 17.868 ppbv
RT: 14.83 min Scan# 3699
Delta R.T. 0.01 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tgt Ion:105 Resp: 6796447
Ion Ratio Lower Upper
105 100
120 25.8 20.5 30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 14.343 ppbv

RT: 13.84 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 83 Resp: 3098413

Ion Ratio Lower Upper

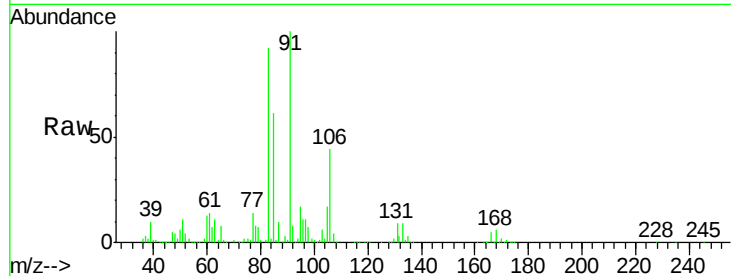
83 100

131 9.6 4.8 14.3

85 65.1 32.5 97.5

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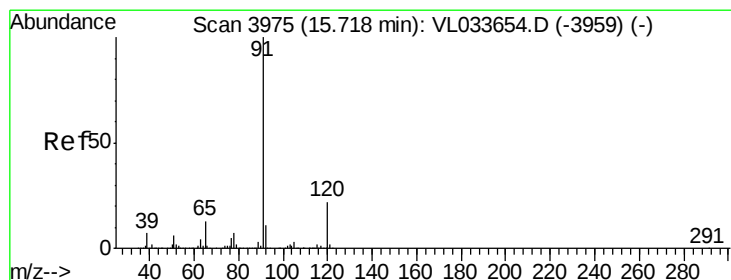
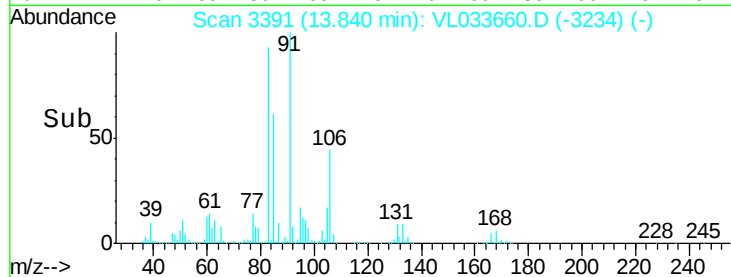
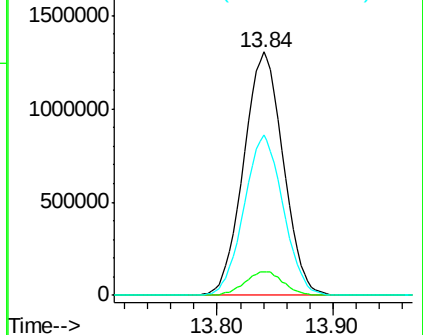
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 18.141 ppbv

RT: 15.72 min Scan# 3977

Delta R.T. 0.01 min

Lab File: VL033660.D

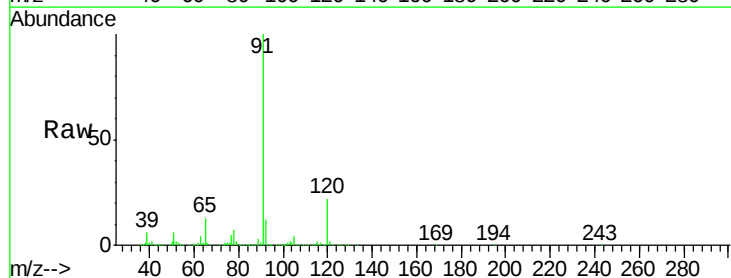
Acq: 6 May 2019 14:51

Tgt Ion:120 Resp: 1794725

Ion Ratio Lower Upper

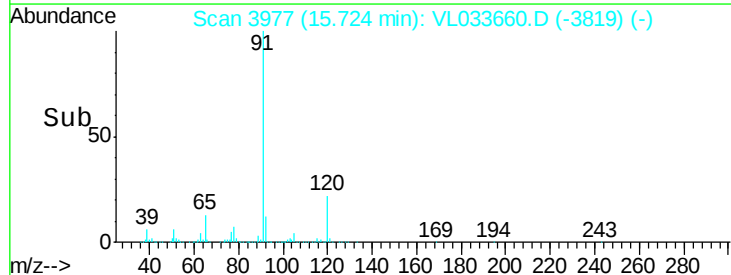
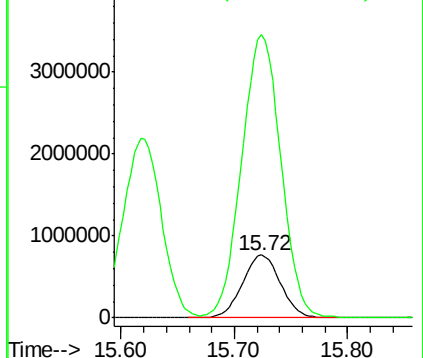
120 100

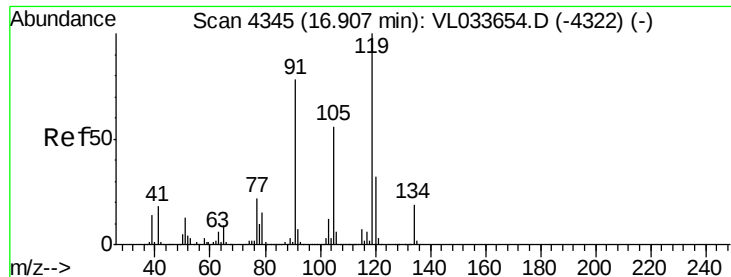
91 465.2 379.4 569.2



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0





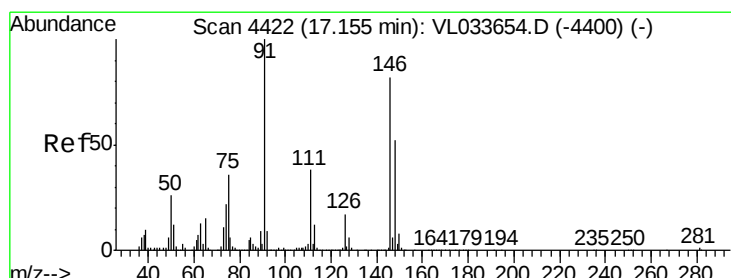
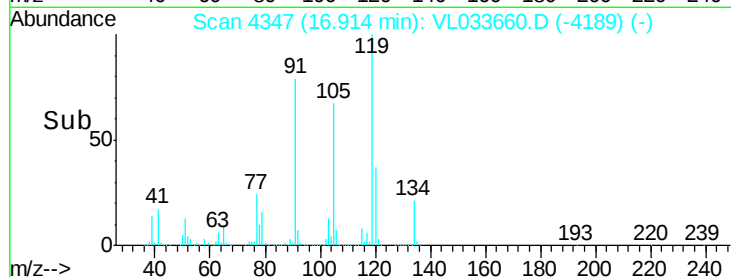
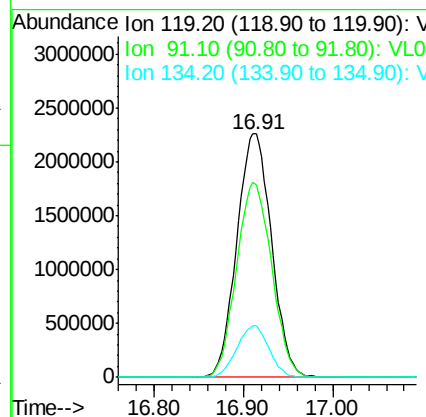
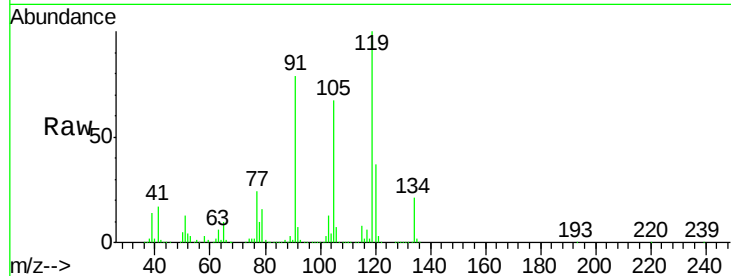
#65
 tert-Butylbenzene
 Concen: 17.150 ppbv
 RT: 16.91 min Scan# 4347
 Delta R.T. 0.01 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion: 119 Resp: 6106176
 Ion Ratio Lower Upper
 119 100
 91 81.4 65.9 98.9
 134 19.6 15.5 23.3

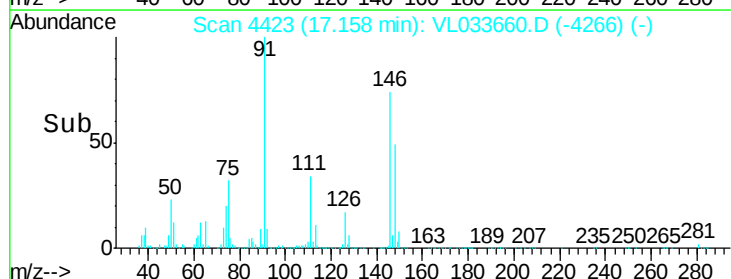
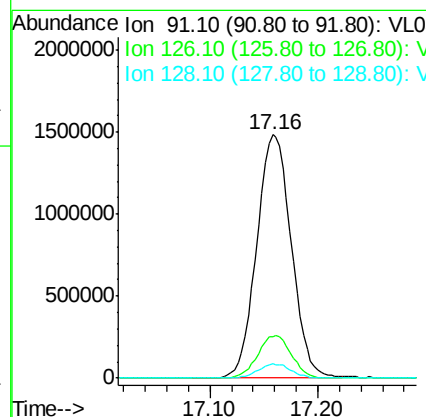
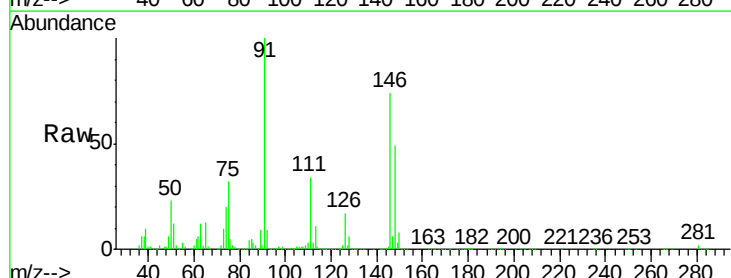
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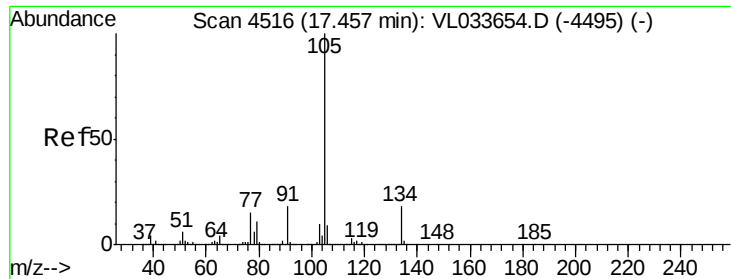
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#66
 Benzyl Chloride
 Concen: 20.134 ppbv
 RT: 17.16 min Scan# 4423
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Tgt Ion: 91 Resp: 3305481
 Ion Ratio Lower Upper
 91 100
 126 17.0 13.4 20.2
 128 5.5 4.4 6.6





#67

sec-Butylbenzene

Concen: 16.114 ppbv

RT: 17.46 min Scan# 4517

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:105 Resp: 8044927

Ion Ratio Lower Upper

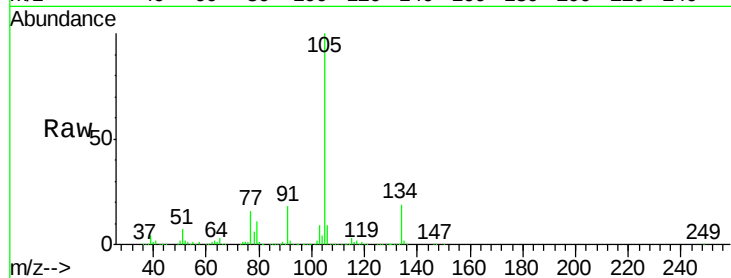
105 100

134 18.6 14.6 22.0

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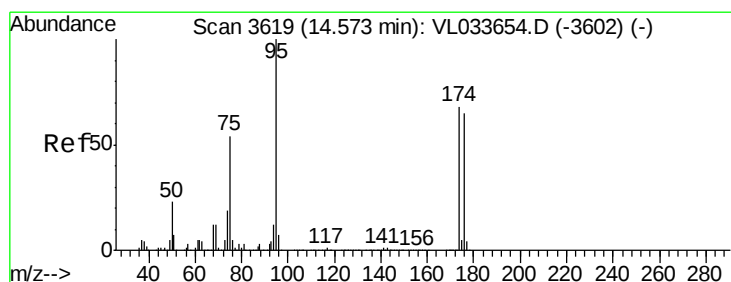
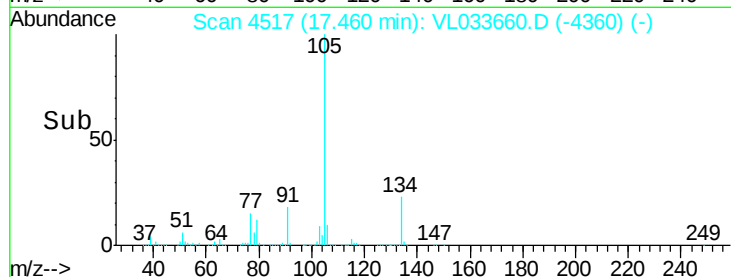
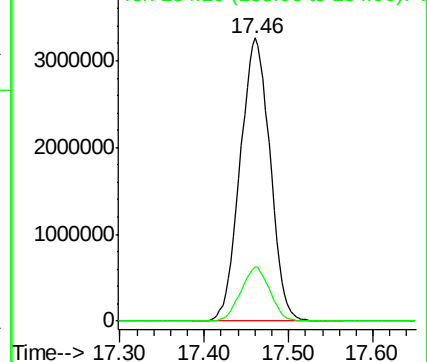
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 11.240 ppbv

RT: 14.58 min Scan# 3621

Delta R.T. 0.01 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

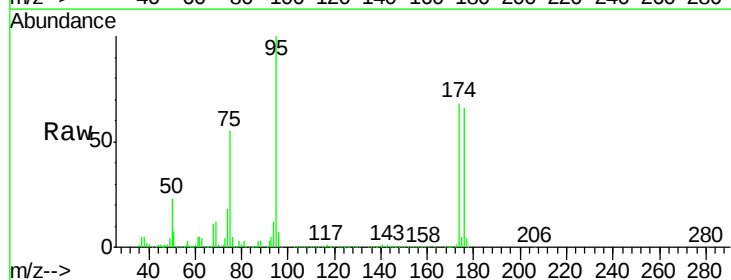
Tgt Ion: 95 Resp: 2353522

Ion Ratio Lower Upper

95 100

174 66.8 54.0 81.0

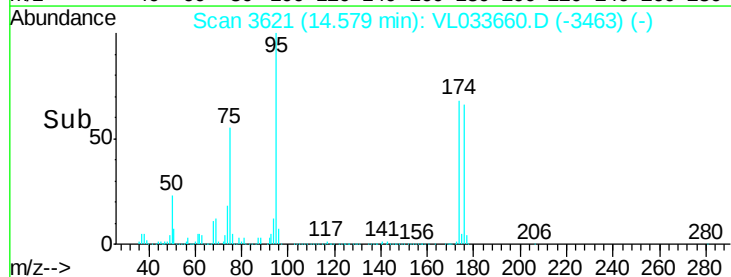
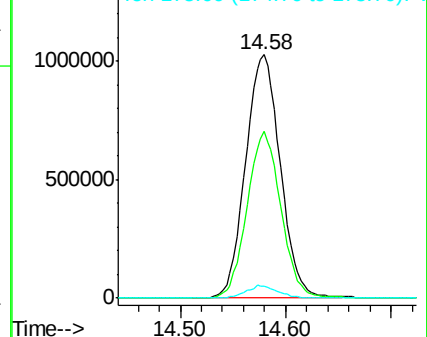
175 4.8 3.8 5.8

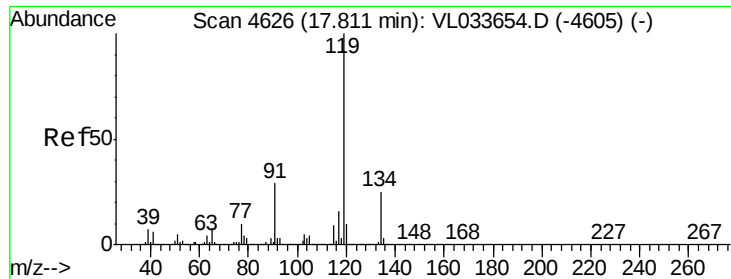


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





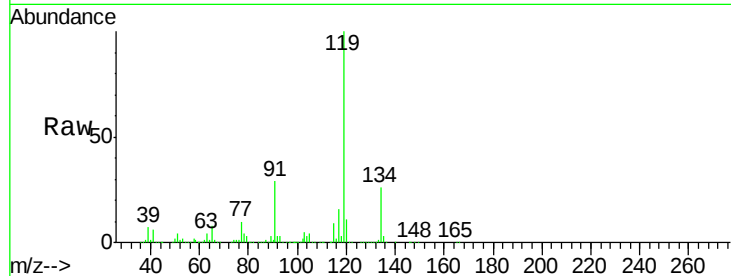
#69
 p-Isopropyltoluene
 Concen: 16.513 ppbv
 RT: 17.82 min Scan# 4628
 Delta R.T. 0.01 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

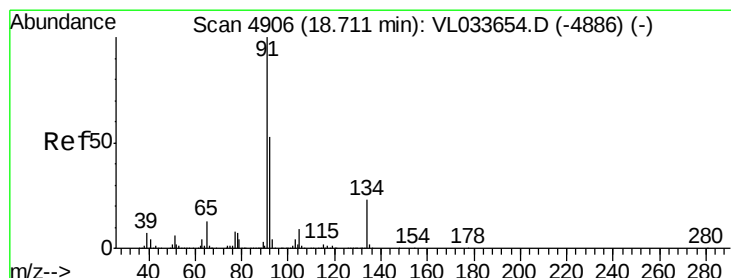
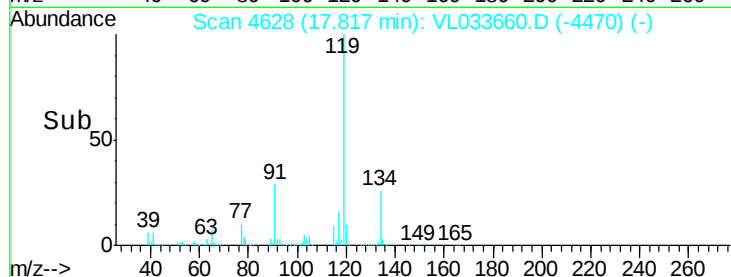
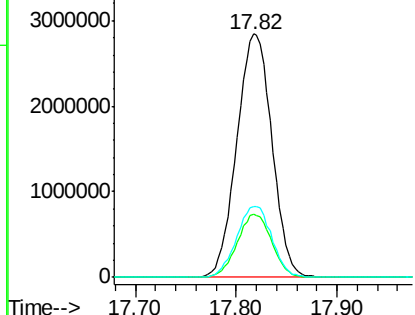
Tot Ion	Ratio	Lower	Upper
119	100		
134	25.5	20.2	30.2
91	29.2	23.3	34.9

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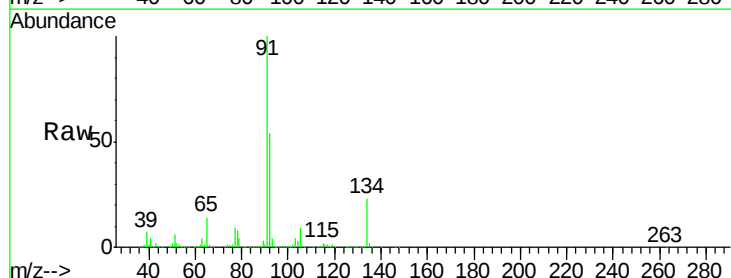


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

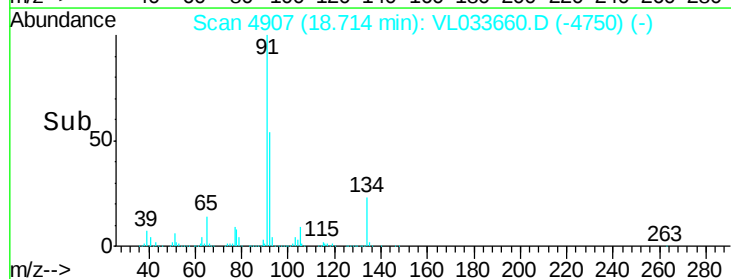
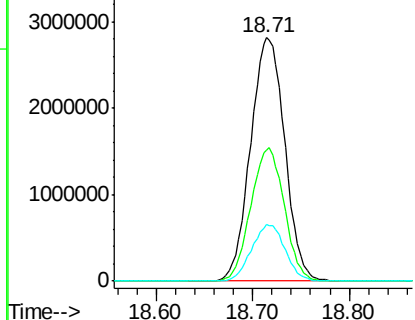


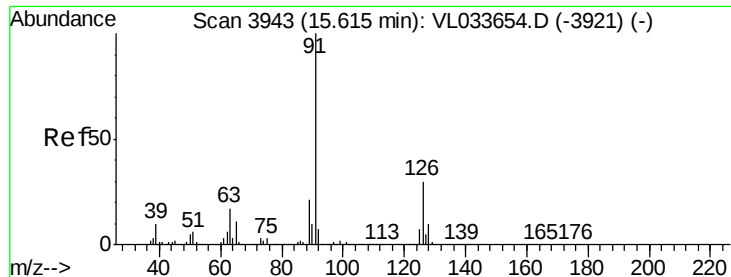
#70
 n-Butylbenzene
 Concen: 15.228 ppbv
 RT: 18.71 min Scan# 4907
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.8	42.5	63.7
134	22.8	18.0	27.0



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0
 Ion 134.20 (133.90 to 134.90): V





#71

2-Chlorotoluene

Concen: 18.136 ppbv

RT: 15.62 min Scan# 3944

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion: 91 Resp: 5177579

Ion Ratio Lower Upper

91 100

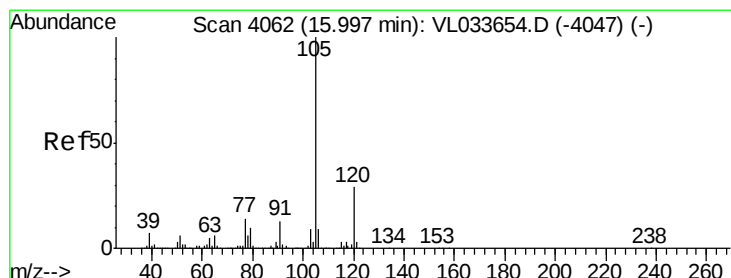
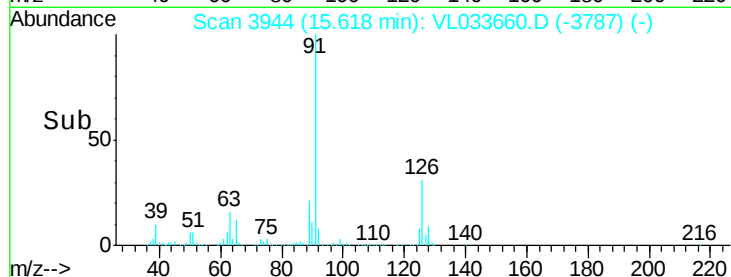
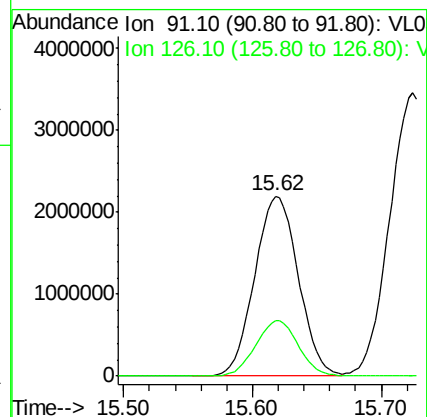
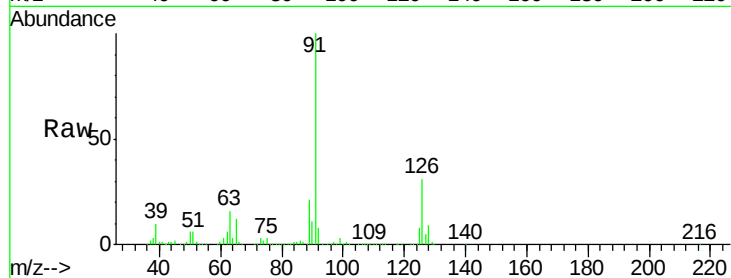
126 30.4 12.0 47.8

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#72

4-Ethyltoluene

Concen: 18.654 ppbv

RT: 16.00 min Scan# 4064

Delta R.T. 0.01 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Tgt Ion: 105 Resp: 6094442

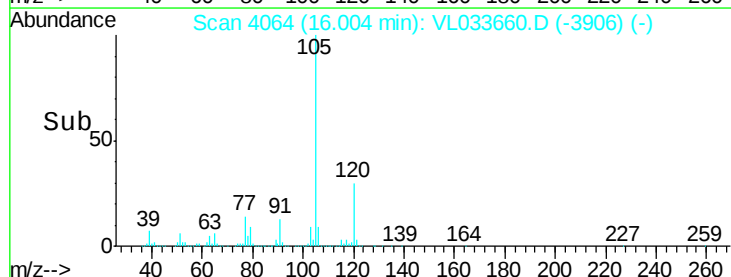
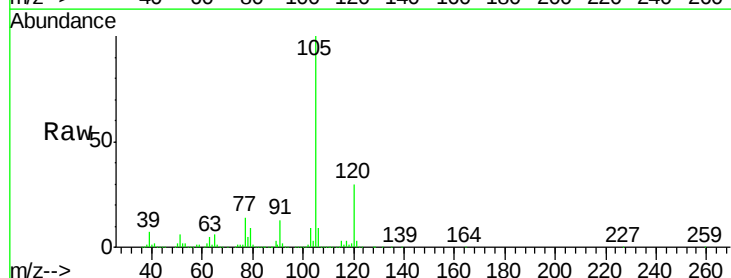
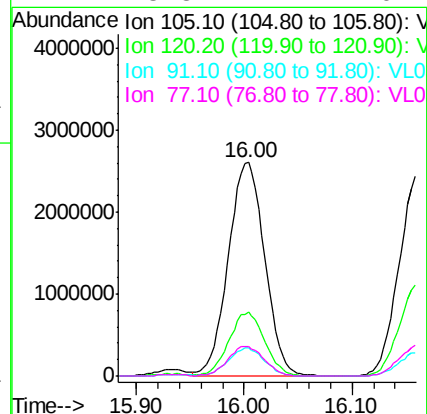
Ion Ratio Lower Upper

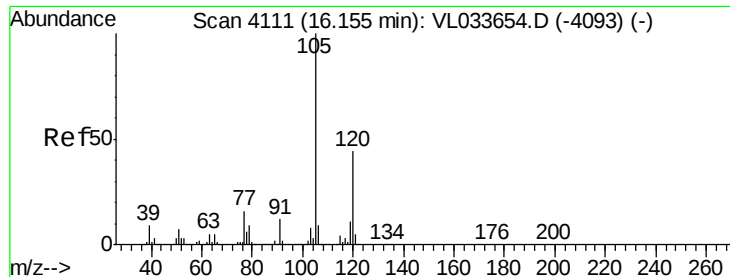
105 100

120 29.3 23.0 34.6

91 13.0 10.6 15.8

77 13.8 11.1 16.7





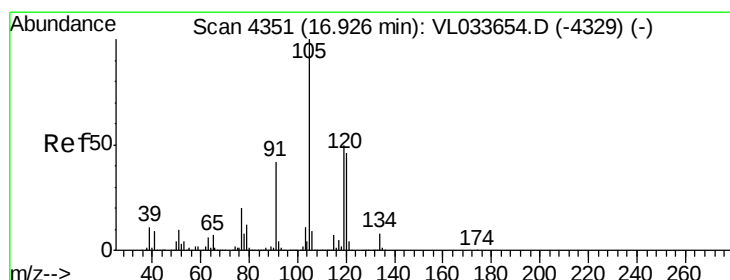
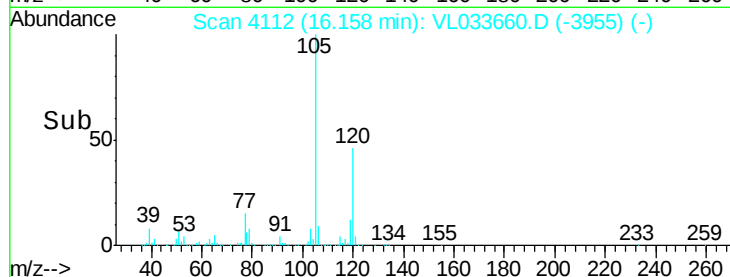
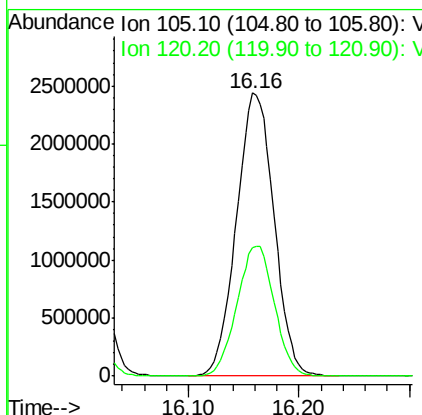
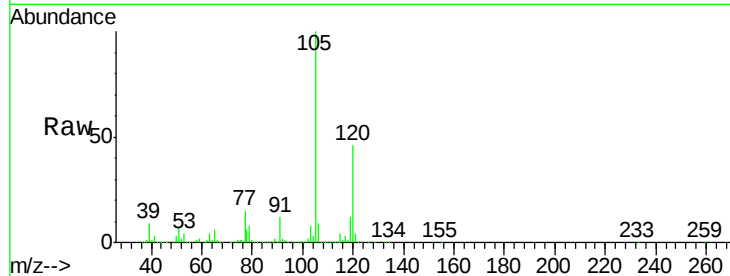
#73
 1,3,5-Trimethylbenzene
 Concen: 17.962 ppbv
 RT: 16.16 min Scan# 4112
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:105 Resp: 5749815
 Ion Ratio Lower Upper
 105 100
 120 45.5 35.5 53.3

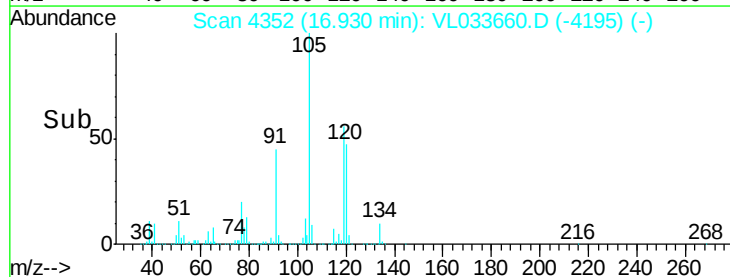
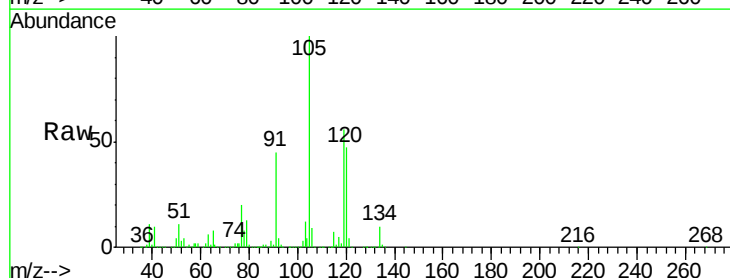
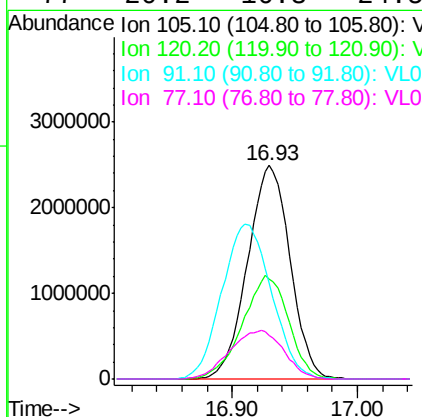
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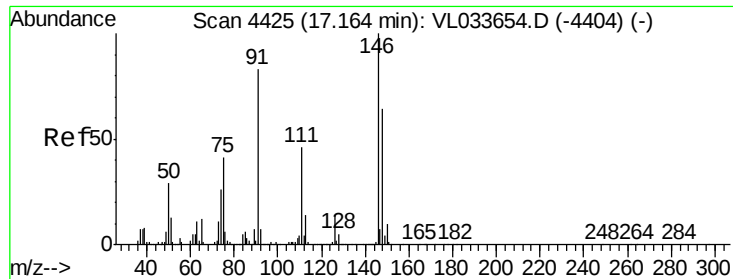
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#74
 1,2,4-Trimethylbenzene
 Concen: 16.542 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Tgt Ion:105 Resp: 5872611
 Ion Ratio Lower Upper
 105 100
 120 46.7 36.5 54.7
 91 45.1 33.7 50.5
 77 20.2 16.3 24.5





#75

1,3-Dichlorobenzene

Concen: 14.976 ppbv

RT: 17.17 min Scan# 4426

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC015

Tot Ion:146 Resp: 3298805

Ion Ratio Lower Upper

146 100

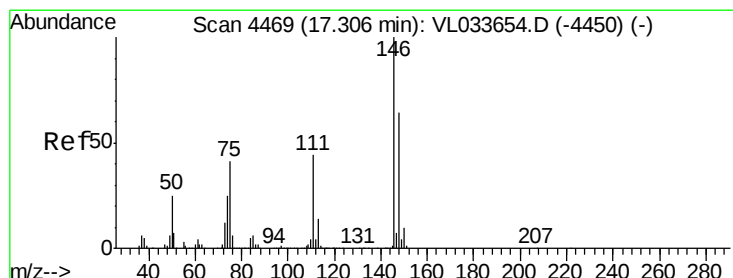
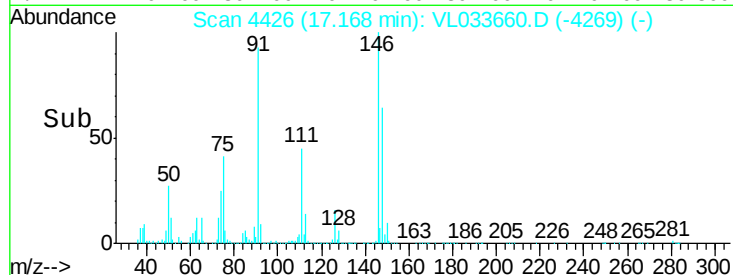
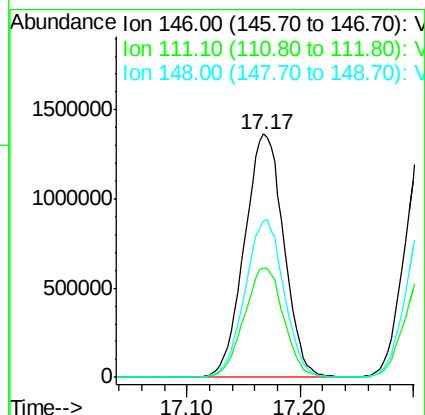
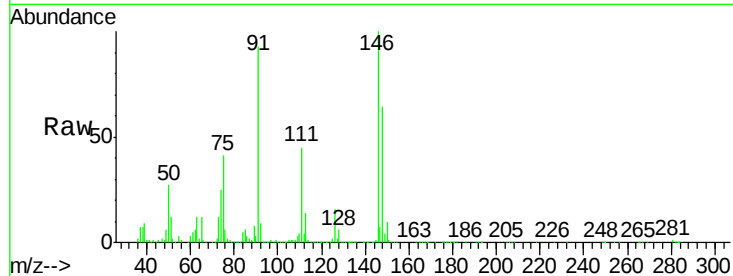
111 45.2 22.6 67.7

148 64.2 31.8 95.4

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#76

1,4-Dichlorobenzene

Concen: 15.741 ppbv

RT: 17.31 min Scan# 4470

Delta R.T. 0.00 min

Lab File: VL033660.D

Acq: 6 May 2019 14:51

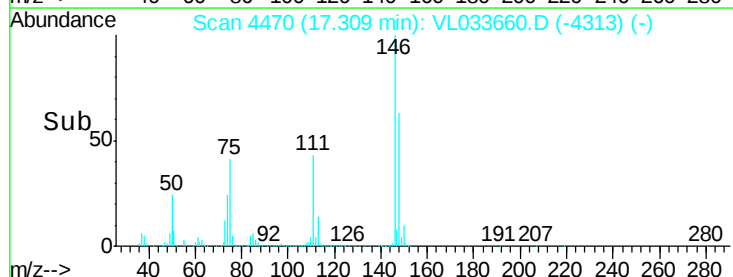
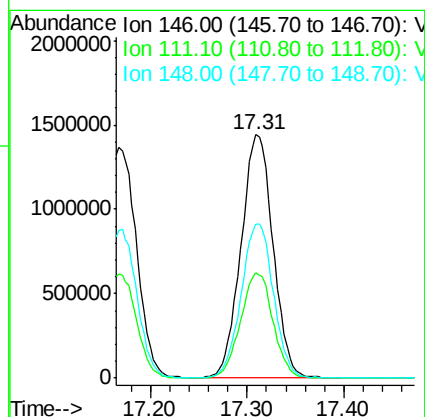
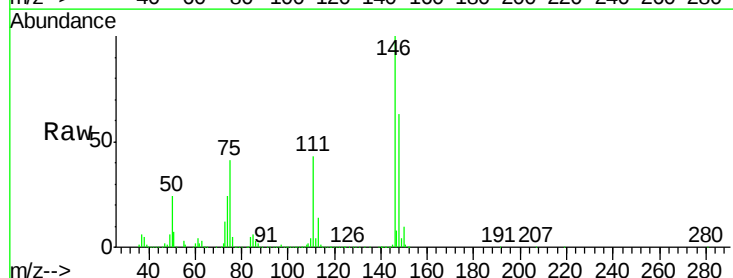
Tgt Ion:146 Resp: 3306939

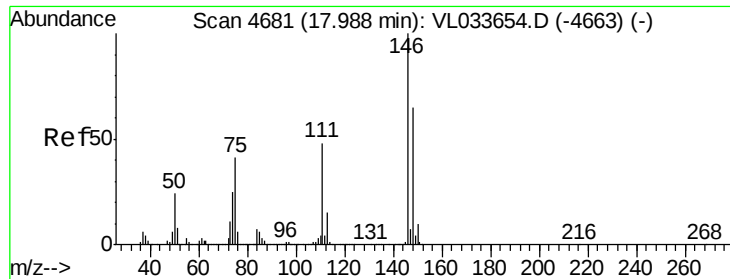
Ion Ratio Lower Upper

146 100

111 44.0 21.9 65.7

148 64.0 32.0 96.0





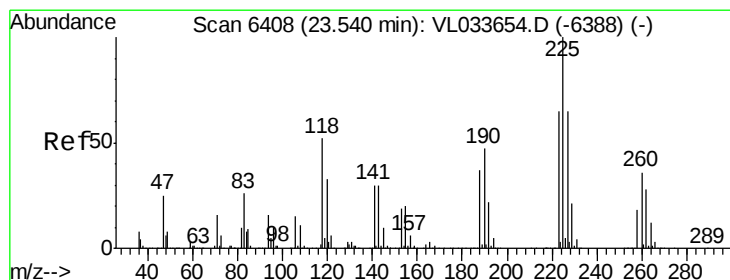
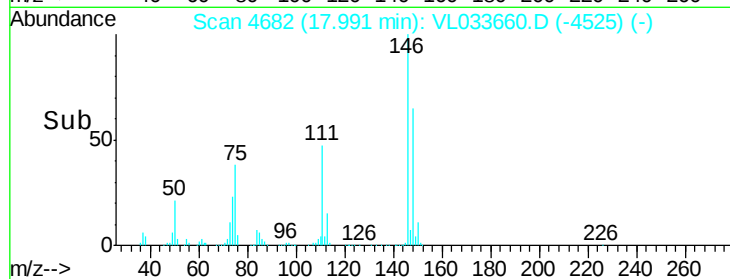
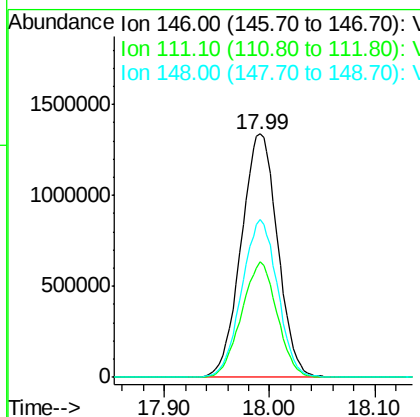
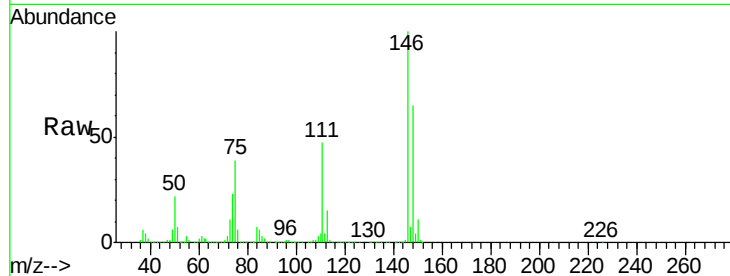
#77
 1,2-Dichlorobenzene
 Concen: 15.692 ppbv
 RT: 17.99 min Scan# 4682
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:146 Resp: 3218370
 Ion Ratio Lower Upper
 146 100
 111 46.4 23.4 70.0
 148 63.8 31.9 95.9

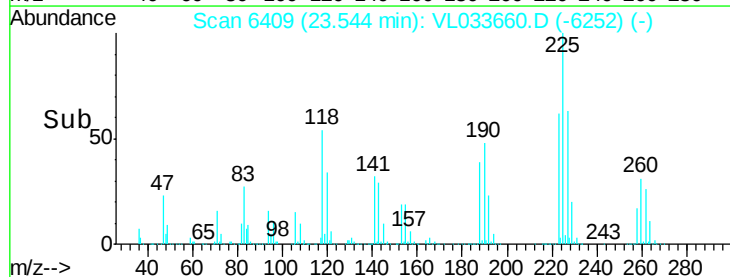
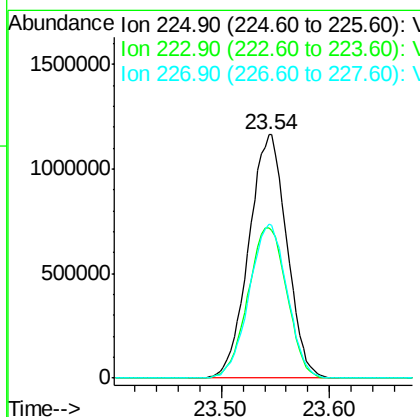
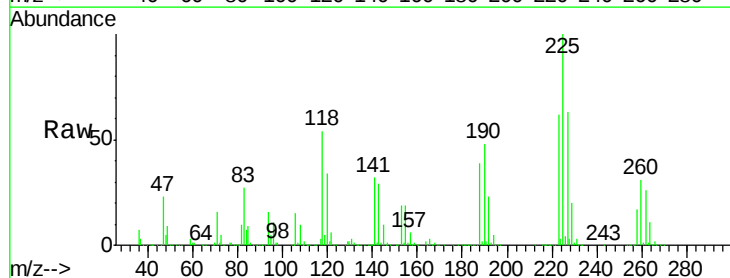
Manual Integrations
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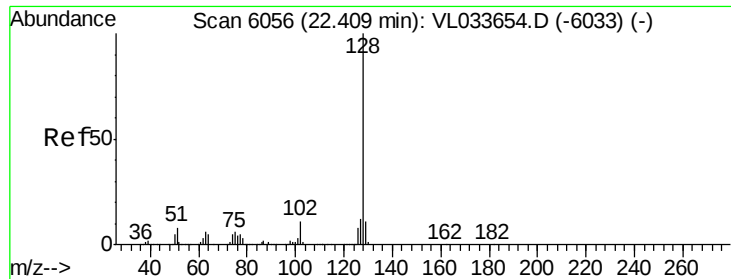
MMDadoda
 5/8/2019 12:06:31 PM



#78
 Hexachloro-1,3-Butadiene
 Concen: 18.171 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Tgt Ion:225 Resp: 2843621
 Ion Ratio Lower Upper
 225 100
 223 63.2 50.7 76.1
 227 63.2 51.4 77.2





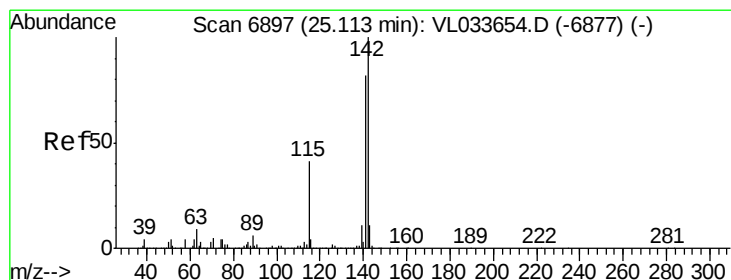
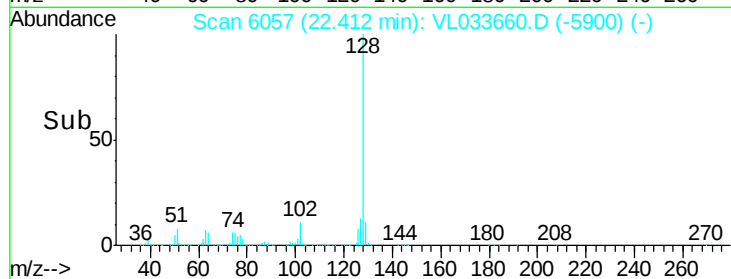
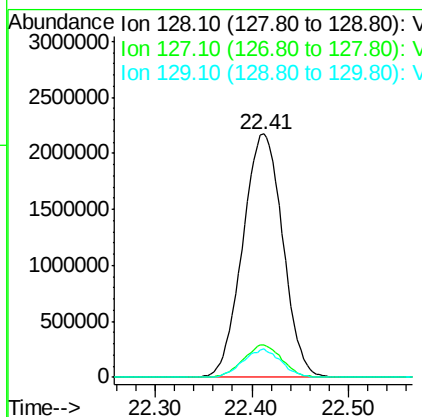
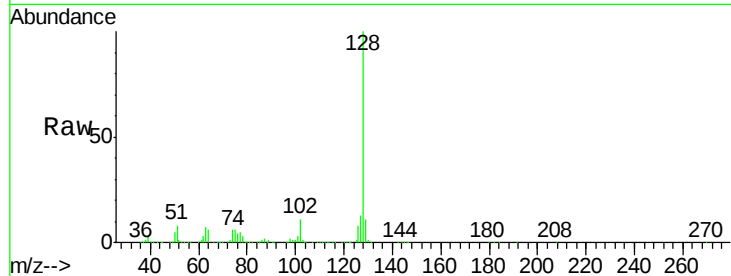
#79
Naphthalene
Concen: 18.838 ppbv
RT: 22.41 min Scan# 6057
Delta R.T. 0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC015

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.1	9.8	14.8
129	11.5	8.8	13.2

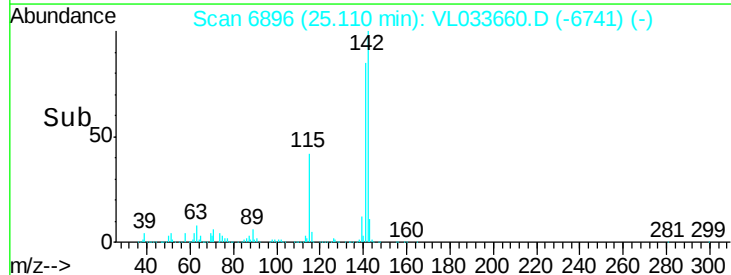
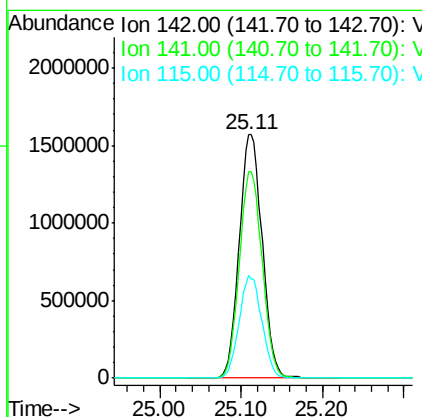
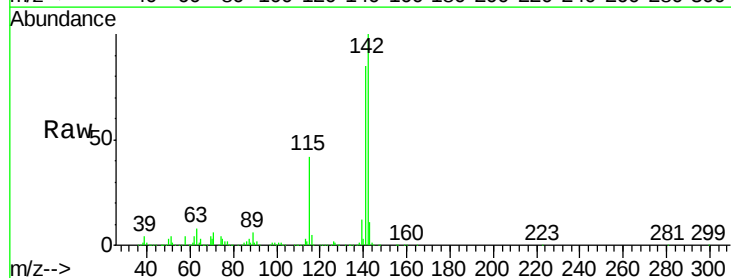
Manual Integrations
APPROVED

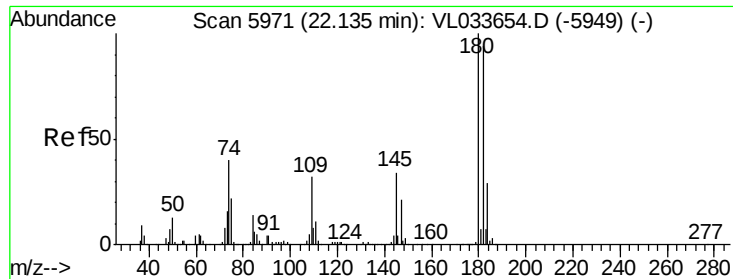
MMDadoda
5/8/2019 12:06:31 PM



#80
Naphthalene, 2-methyl-
Concen: 21.727 ppbv
RT: 25.11 min Scan# 6896
Delta R.T. -0.00 min
Lab File: VL033660.D
Acq: 6 May 2019 14:51

Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.8	67.8	101.8
115	41.7	34.2	51.4





#81
 1,2,4-Trichlorobenzene
 Concen: 17.524 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. 0.00 min
 Lab File: VL033660.D
 Acq: 6 May 2019 14:51

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC015

Tot Ion:180 Resp: 3345553
 Ion Ratio Lower Upper
 180 100
 182 95.9 77.4 116.0
 184 30.7 24.6 36.8

Manual Integrations
 APPROVED

MMDadoda
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