

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
 Data File : VL033279.D
 Acq On : 12 Mar 2019 9:04
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:53 AM

Quant Time: Mar 13 07:19:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 13 2019
 QLast Update : Tue Mar 12 06:59:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	934400	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2231893	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2217532	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1714709	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.08	85	70558	0.349	ppbv	98
3) Chlorodifluoromethane	3.01	51	59768	0.480	ppbv	99
4) Chloromethane	3.17	50	32608	0.501	ppbv	92
5) Vinyl Chloride	3.29	62	29369	0.453	ppbv	93
6) Bromomethane	3.52	94	18451m	0.466	ppbv	
7) Chloroethane	3.60	64	10905	0.469	ppbv	97
8) Dichlorotetrafluoroethane	3.22	85	77168	0.483	ppbv	96
9) Propene	3.03	41	28729	0.523	ppbv	99
10) Heptane	8.24	43	65263	0.516	ppbv	100
11) Trichlorofluoromethane	4.00	101	80958	0.431	ppbv	96
12) 1,1,2-Trichlorotrifluoroet	4.55	101	54725	0.508	ppbv	98
13) Ethanol	3.65	45	10143m	0.569	ppbv	
14) Bromoethene	3.79	108	22619	0.454	ppbv #	98
15) Acetone	3.91	43	73810m	0.524	ppbv	
16) 1,3-Butadiene	3.36	39	23626	0.459	ppbv	99
17) tert-Butyl alcohol	4.38	59	9741m	0.504	ppbv	
18) 1,1-Dichloroethene	4.35	96	23841	0.501	ppbv #	77
19) Isopropyl Alcohol	4.03	45	44584m	0.525	ppbv	
20) Methylene Chloride	4.40	84	26358	0.548	ppbv	94
21) Allyl Chloride	4.48	41	35642	0.505	ppbv	95
22) trans-1,2-Dichloroethene	4.96	96	23312	0.461	ppbv	96
23) Vinyl Acetate	5.15	43	92029m	0.524	ppbv	
24) 1,1-Dichloroethane	5.09	63	66038	0.506	ppbv	98
25) Ethyl Acetate	5.77	43	115947	0.525	ppbv	99
26) Hexane	5.78	57	55198	0.535	ppbv	96
27) Carbon Disulfide	4.62	76	48973	0.443	ppbv #	82
28) Methyl tert-Butyl Ether	5.12	73	76002	0.525	ppbv	99
29) Chloroform	5.84	83	83396	0.533	ppbv	100
30) Cyclohexane	7.24	84	43187m	0.552	ppbv	
31) cis-1,2-Dichloroethene	5.63	61	50768	0.518	ppbv	94
32) 1,1,1-Trichloroethane	6.62	97	76931m	0.503	ppbv	
34) 2-Butanone	5.33	43	74531	0.504	ppbv	100
35) Carbon Tetrachloride	7.13	117	75035	0.460	ppbv	96
36) Benzene	7.00	78	104938	0.514	ppbv	97
37) 1,2-Dichloroethane	6.40	62	60830	0.486	ppbv #	96
38) Trichloroethene	7.96	130	39604m	0.496	ppbv	
39) 1,2-Dichloropropane	7.73	63	39102	0.505	ppbv	98
40) 1,4-Dioxane	8.00	88	14400m	0.492	ppbv	
41) Tetrahydrofuran	6.17	42	40671m	0.510	ppbv	
42) Bromodichloromethane	7.91	83	82731	0.486	ppbv	97
43) Methyl Methacrylate	8.14	69	39449	0.500	ppbv	98

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 3/14/2019 5:05:53 AM

Quant Time: Mar 13 07:19:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL031219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 13 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.99	57	181191	0.520	ppbv	99
45) t-1,3-Dichloropropene	9.41	75	41562	0.427	ppbv #	81
46) cis-1,3-Dichloropropene	8.83	75	51222	0.448	ppbv	97
47) 1,1,2-Trichloroethane	9.61	97	41114m	0.494	ppbv	
48) Dibromochloromethane	10.44	129	62002m	0.458	ppbv	
49) Bromoform	13.19	173	48081m	0.442	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	104107m	0.497	ppbv	
51) 2-Hexanone	10.28	43	76186m	0.482	ppbv	
52) Tetrachloroethene	11.37	164	39390	0.523	ppbv	89
53) Toluene	9.94	91	119695	0.518	ppbv	94
54) 1,2-Dibromoethane	10.76	107	62486	0.495	ppbv	89
56) 1,1,1,2-Tetrachloroethane	12.28	131	49026m	0.524	ppbv	
57) Chlorobenzene	12.30	112	90673	0.543	ppbv #	96
58) Ethyl Benzene	12.86	91	153060m	0.505	ppbv	
59) m/p-Xylene	13.12	91	261285m	1.028	ppbv	
60) o-Xylene	13.85	91	127358	0.520	ppbv	99
61) Styrene	13.69	104	85809m	0.503	ppbv	
62) Isopropylbenzene	14.82	105	175688	0.516	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.83	83	89358m	0.549	ppbv	
64) n-propylbenzene	15.72	120	43645m	0.528	ppbv	
65) tert-Butylbenzene	16.91	119	142690	0.496	ppbv	96
66) Benzyl Chloride	17.16	91	44127m	0.404	ppbv	
67) sec-Butylbenzene	17.45	105	204762	0.502	ppbv	100
69) p-Isopropyltoluene	17.82	119	161166	0.492	ppbv	99
70) n-Butylbenzene	18.71	91	175408	0.499	ppbv	99
71) 2-Chlorotoluene	15.61	91	134250	0.527	ppbv	99
72) 4-Ethyltoluene	16.00	105	127312	0.484	ppbv	98
73) 1,3,5-Trimethylbenzene	16.15	105	125118	0.508	ppbv	94
74) 1,2,4-Trimethylbenzene	16.92	105	122695	0.482	ppbv	94
75) 1,3-Dichlorobenzene	17.16	146	77774	0.512	ppbv	93
76) 1,4-Dichlorobenzene	17.30	146	78285	0.526	ppbv	94
77) 1,2-Dichlorobenzene	17.99	146	79617	0.534	ppbv	97
78) Hexachloro-1,3-Butadiene	23.54	225	88984	0.772	ppbv	97
79) Naphthalene	22.42	128	116511	0.449	ppbv	97
80) Naphthalene,2-methyl-	25.12	142	38872	0.644	ppbv	88
81) 1,2,4-Trichlorobenzene	22.14	180	70722	0.513	ppbv	98

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

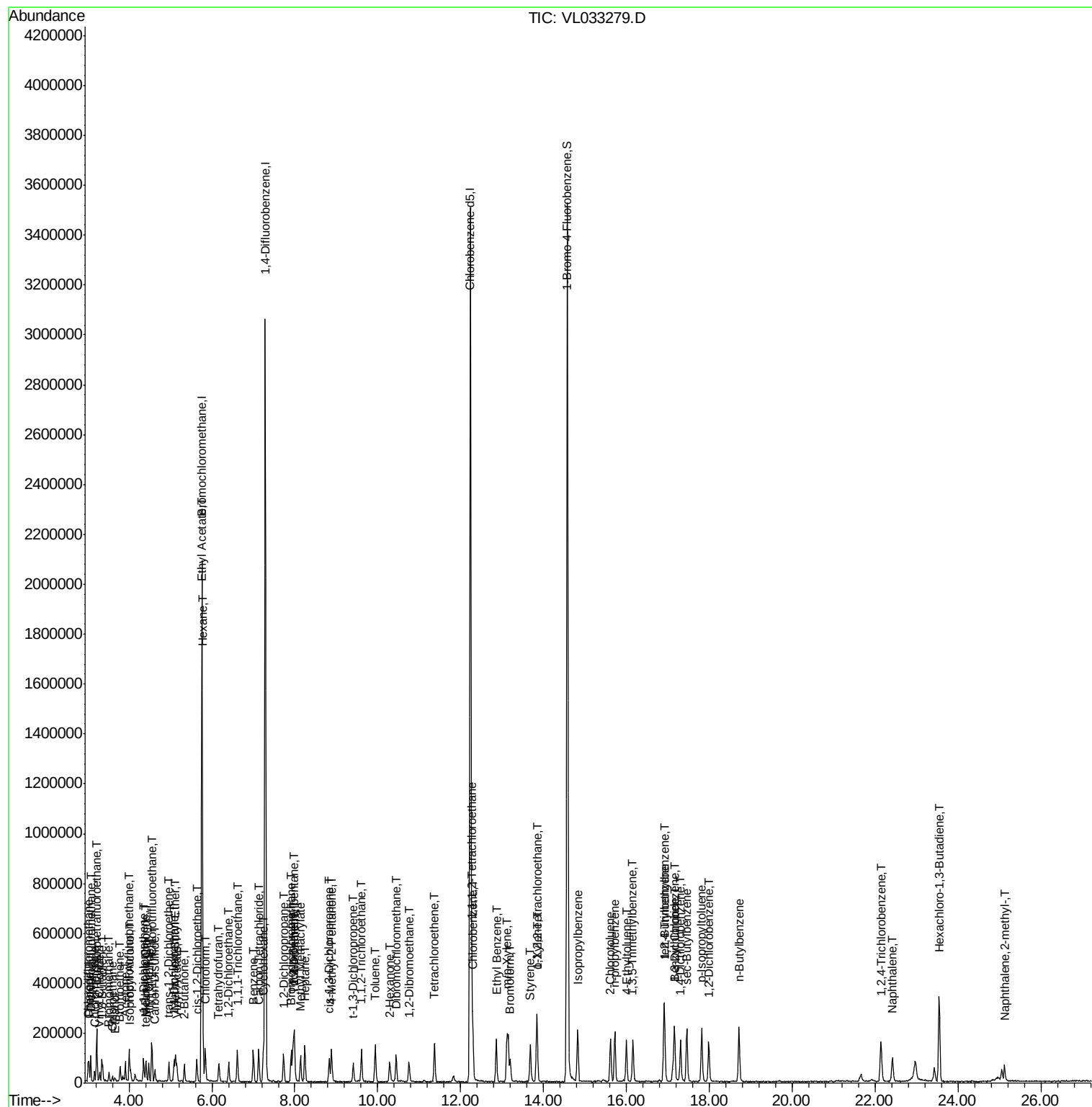
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL031219\
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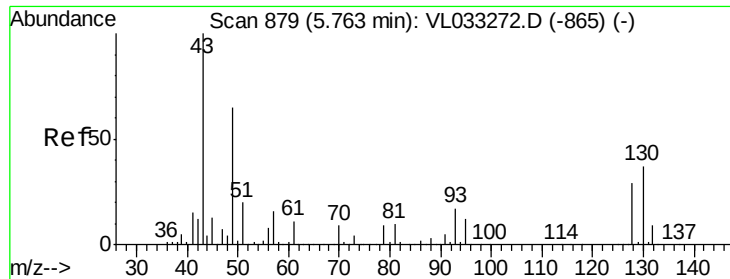
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 12 06:59:17 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

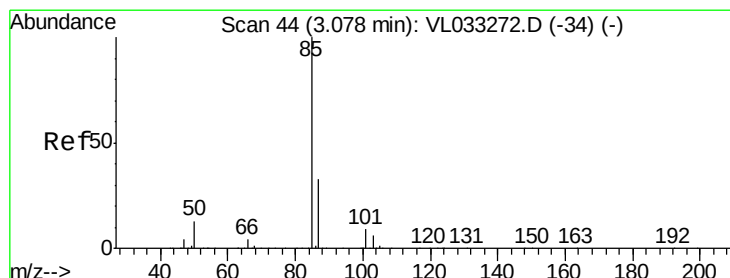
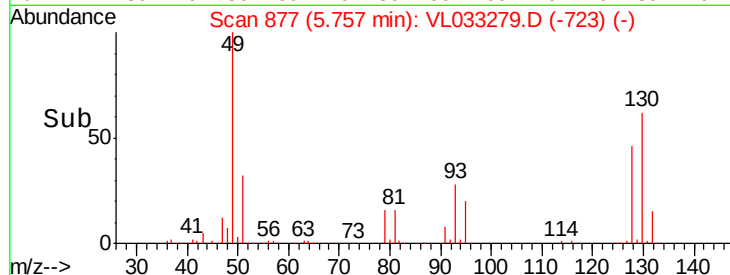
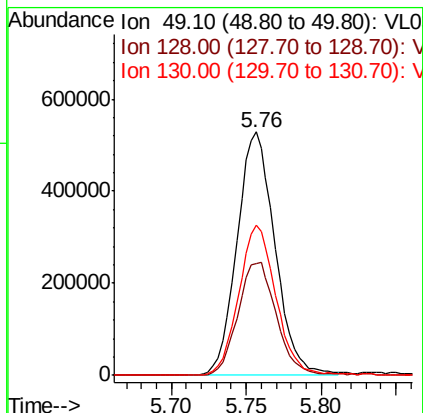
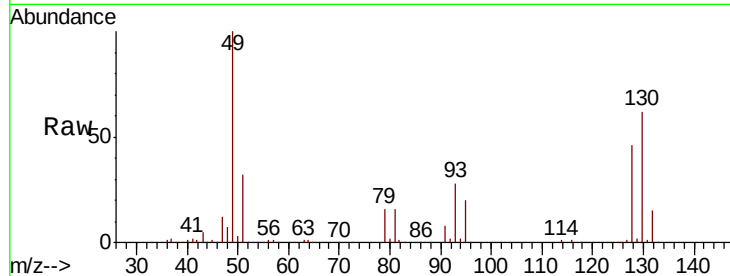
ClientSampleId :

VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
49	100		
128	47.7	23.3	69.9
130	61.0	30.0	90.1

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.349 ppbv

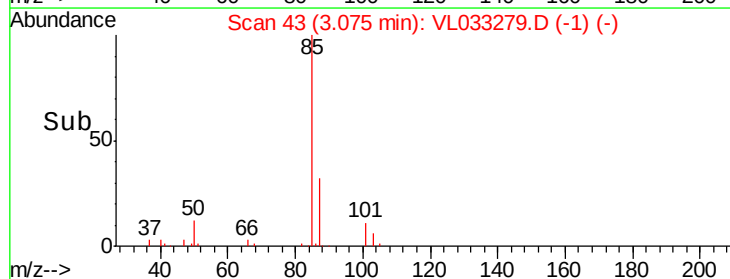
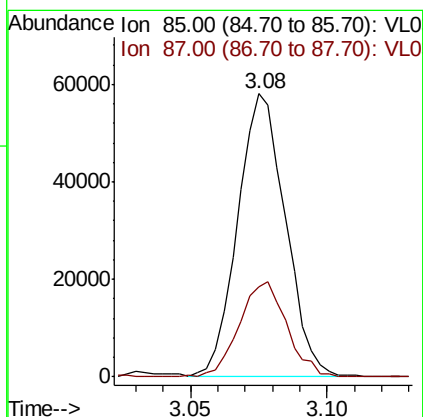
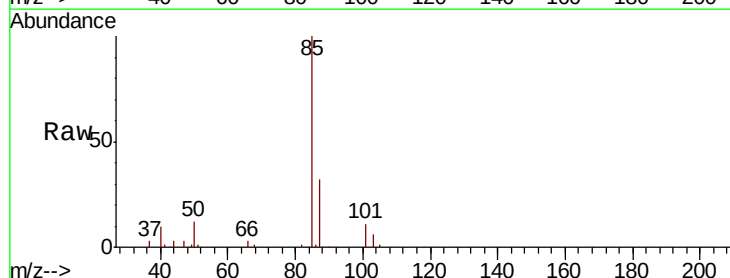
RT: 3.08 min Scan# 43

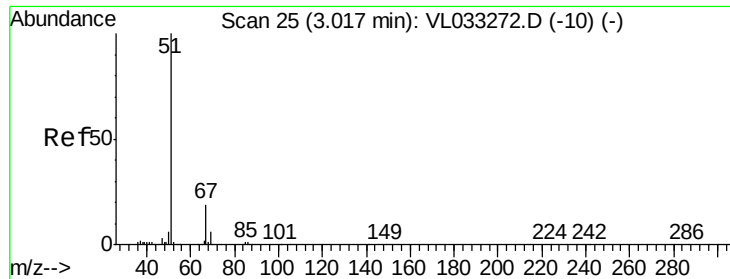
Delta R.T. -0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.4	39.6





#3

Chlorodifluoromethane

Concen: 0.480 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Tgt Ion: 51 Resp: 59768

Ion Ratio Lower Upper

51 100

67 19.2 15.0 22.4

Instrument :

MSVOA_L

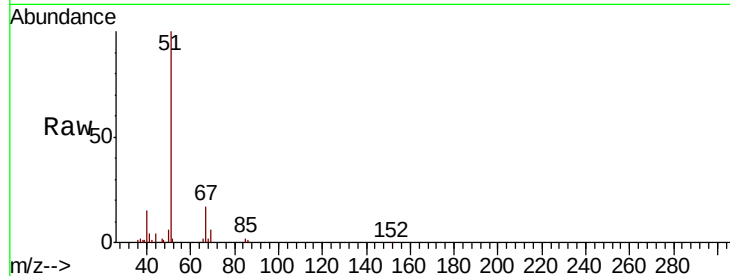
ClientSampleId :

VSTDIC0.5

Manual Integrations
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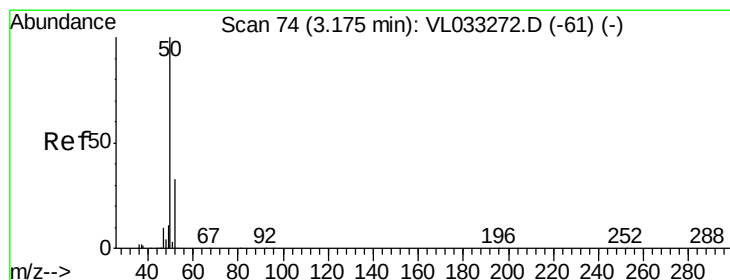
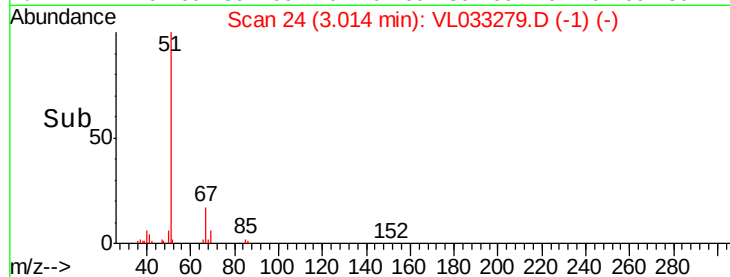
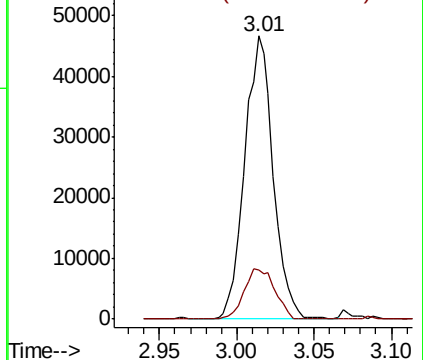
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.501 ppbv

RT: 3.17 min Scan# 73

Delta R.T. -0.00 min

Lab File: VL033279.D

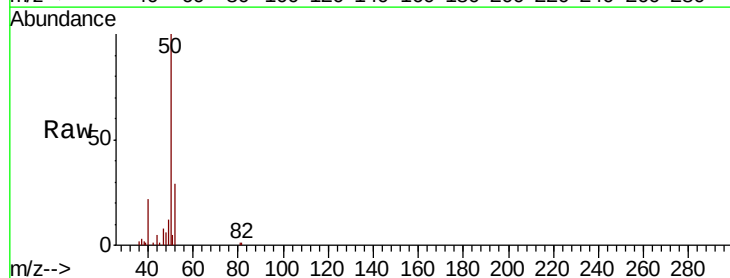
Acq: 12 Mar 2019 9:04

Tgt Ion: 50 Resp: 32608

Ion Ratio Lower Upper

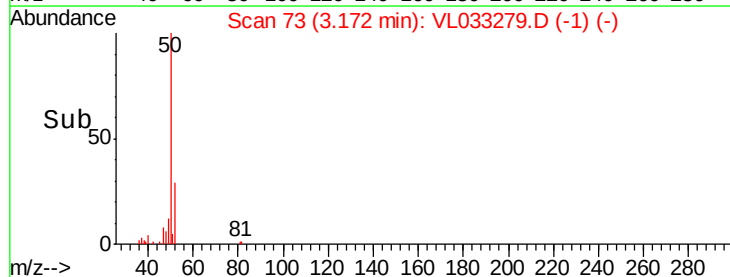
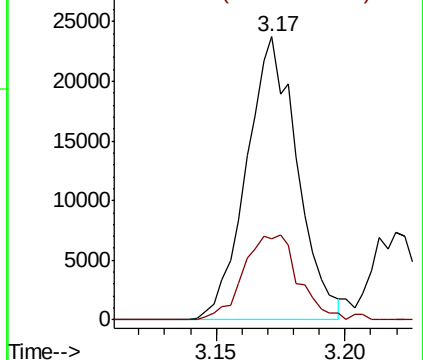
50 100

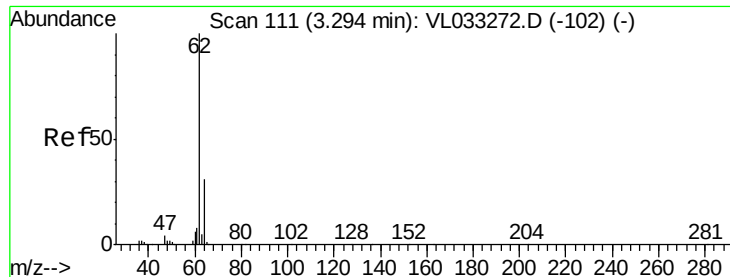
52 28.6 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.453 ppbv

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 62 Resp: 29369

Ion Ratio Lower Upper

62 100

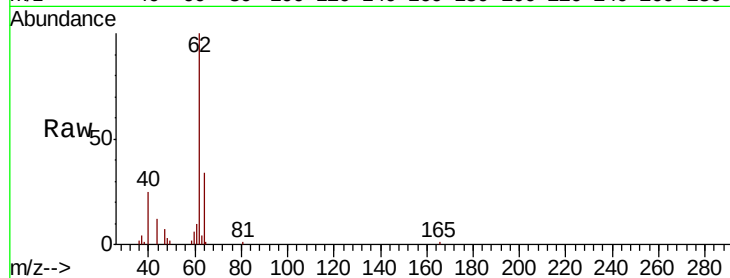
64 34.3 24.5 36.7

Manual Integrations

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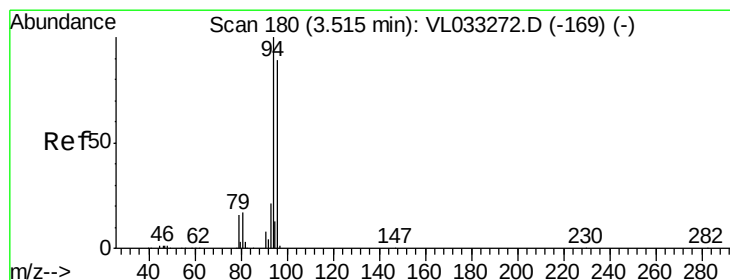
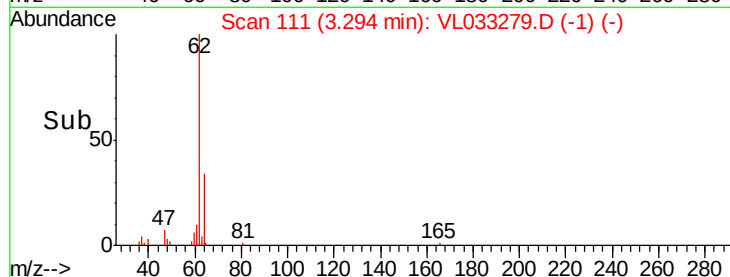
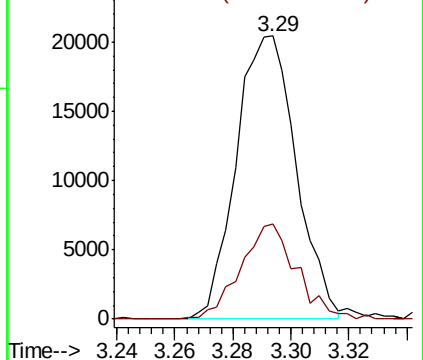
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.466 ppbv m

RT: 3.52 min Scan# 180

Delta R.T. 0.00 min

Lab File: VL033279.D

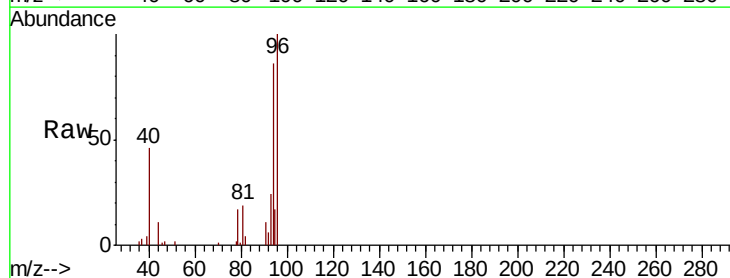
Acq: 12 Mar 2019 9:04

Tgt Ion: 94 Resp: 18451

Ion Ratio Lower Upper

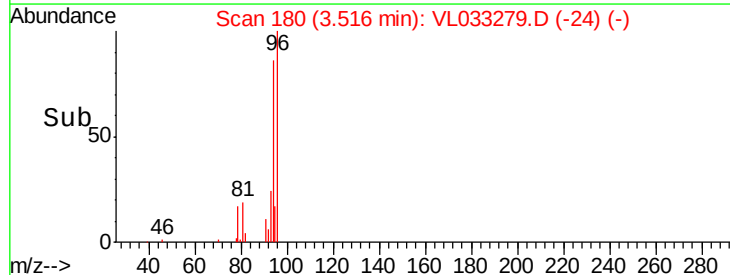
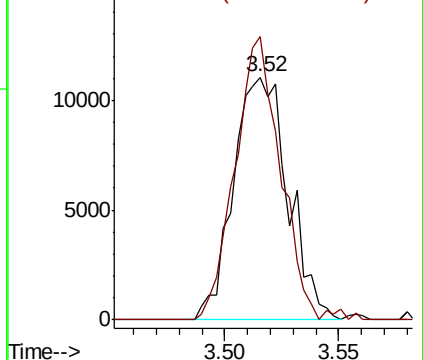
94 100

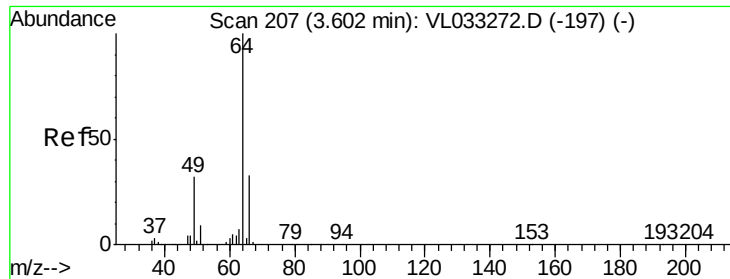
96 116.5 71.3 106.9#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.469 ppbv

RT: 3.60 min Scan# 207

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 64 Resp: 10905

Ion Ratio Lower Upper

64 100

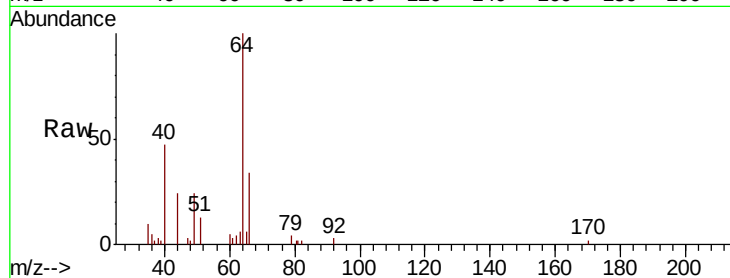
66 34.3 26.2 39.2

Manual Integrations

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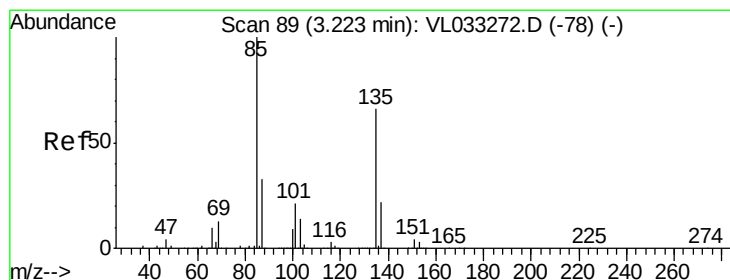
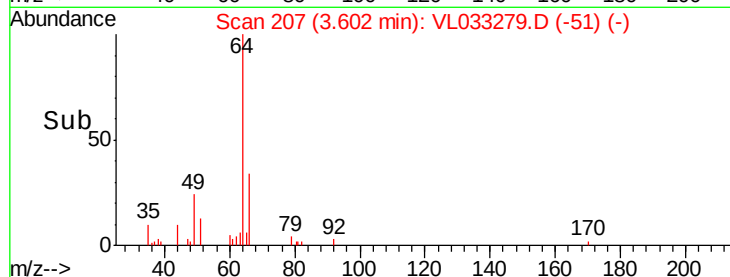
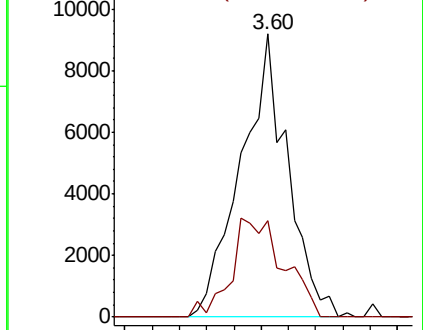
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.483 ppbv

RT: 3.22 min Scan# 88

Delta R.T. -0.00 min

Lab File: VL033279.D

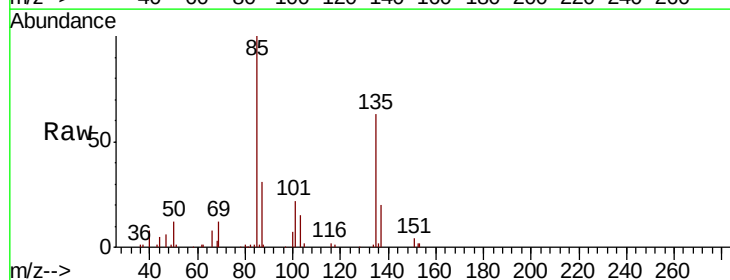
Acq: 12 Mar 2019 9:04

Tgt Ion: 85 Resp: 77168

Ion Ratio Lower Upper

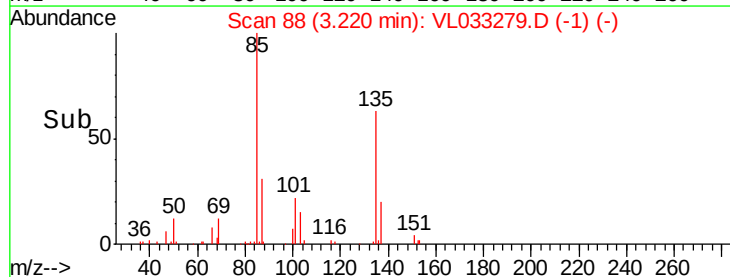
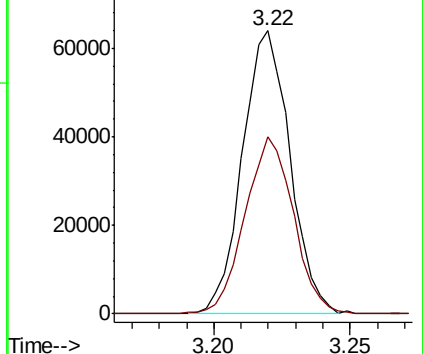
85 100

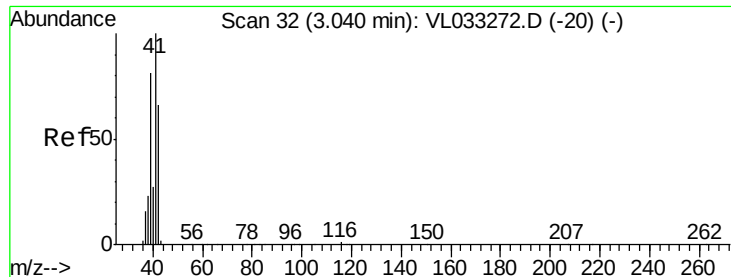
135 63.9 53.4 80.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.523 ppbv

RT: 3.03 min Scan# 30

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 41 Resp: 28729

Ion Ratio Lower Upper

41 100

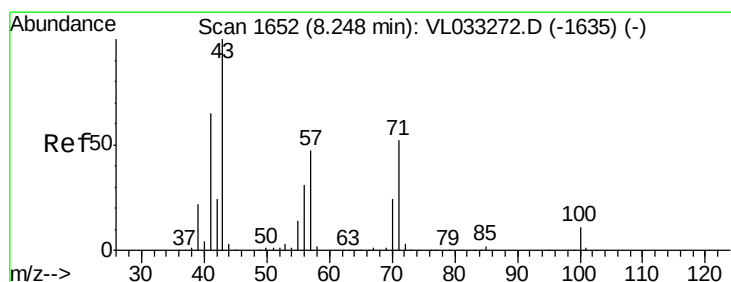
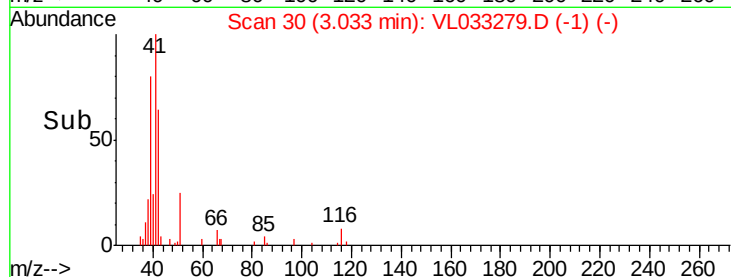
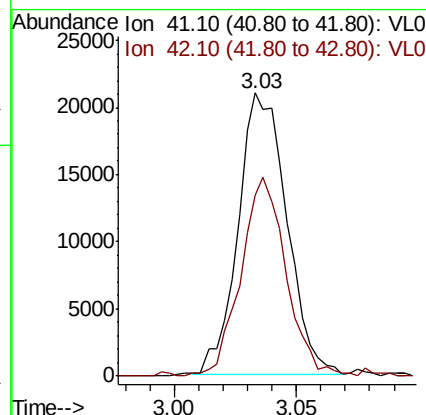
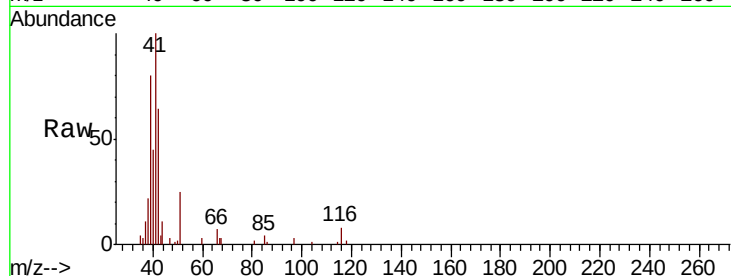
42 67.3 54.6 82.0

Manual Integrations

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#10

Heptane

Concen: 0.516 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.01 min

Lab File: VL033279.D

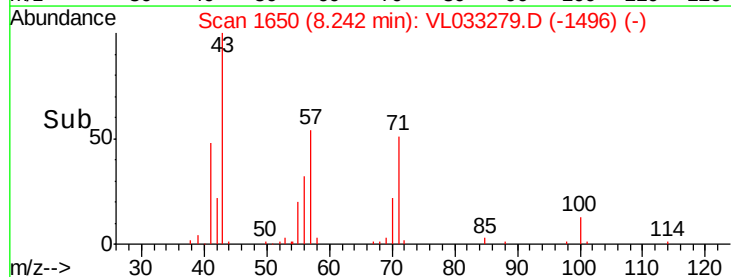
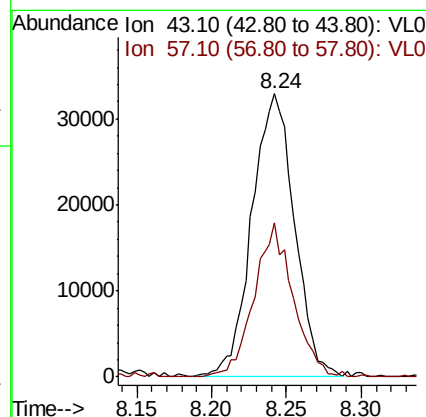
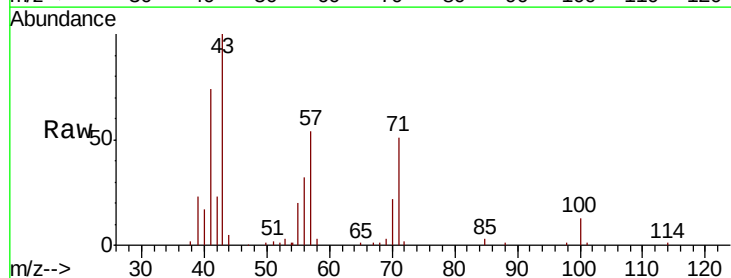
Acq: 12 Mar 2019 9:04

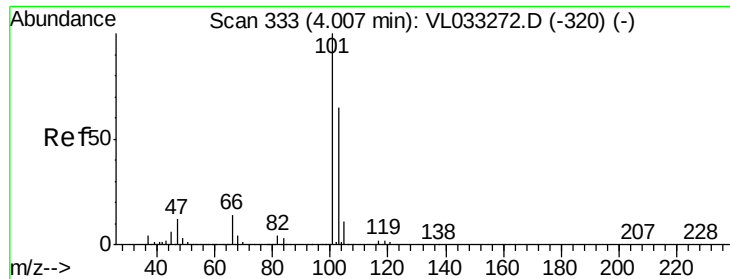
Tgt Ion: 43 Resp: 65263

Ion Ratio Lower Upper

43 100

57 49.7 39.8 59.8





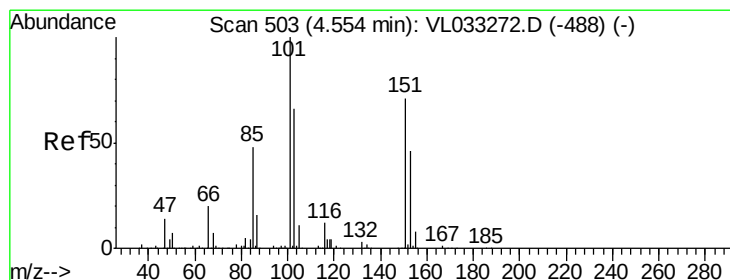
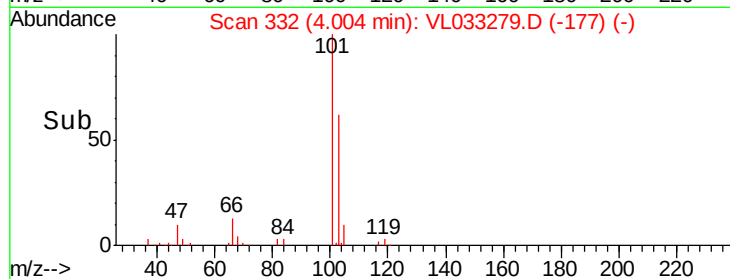
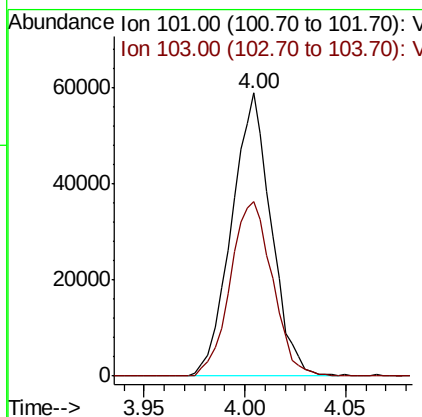
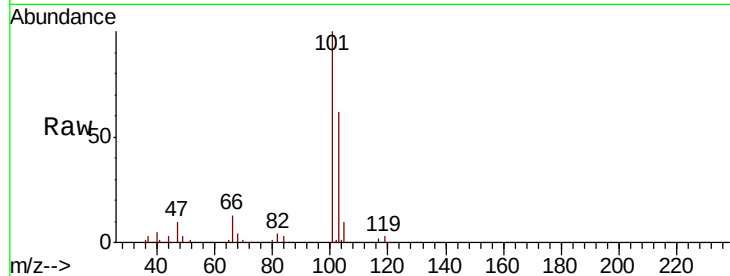
#11
 Trichlorofluoromethane
 Concen: 0.431 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion:101 Resp: 80958
 Ion Ratio Lower Upper
 101 100
 103 61.8 51.8 77.8

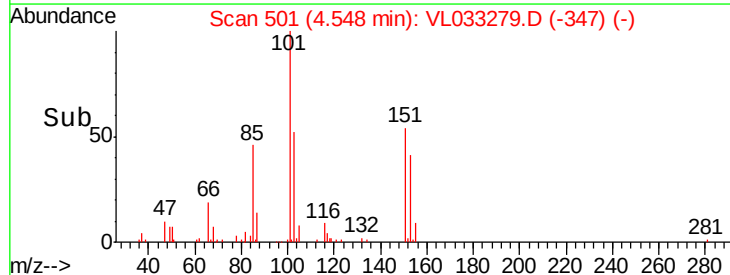
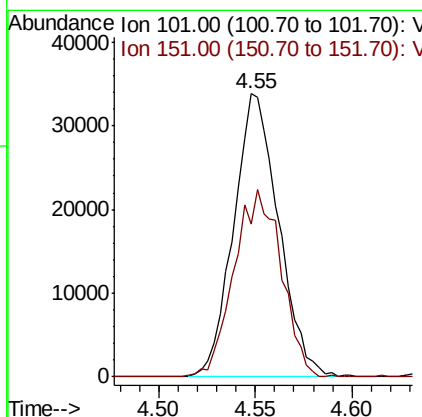
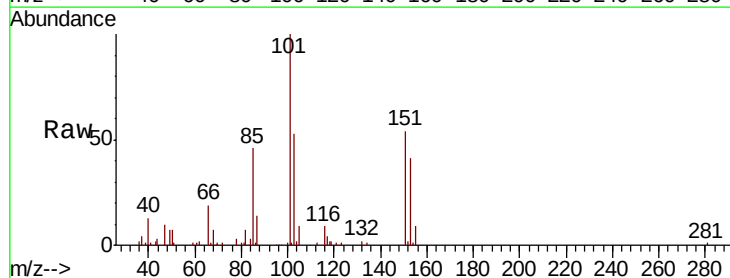
Manual Integrations
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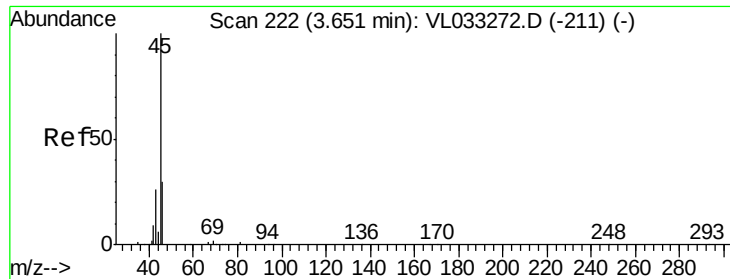
MMDadoda
 3/14/2019 5:05:53 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.508 ppbv
 RT: 4.55 min Scan# 501
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion:101 Resp: 54725
 Ion Ratio Lower Upper
 101 100
 151 69.2 56.9 85.3





#13

Ethanol

Concen: 0.569 ppbv m

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 45 Resp: 10143

Ion Ratio Lower Upper

45 100

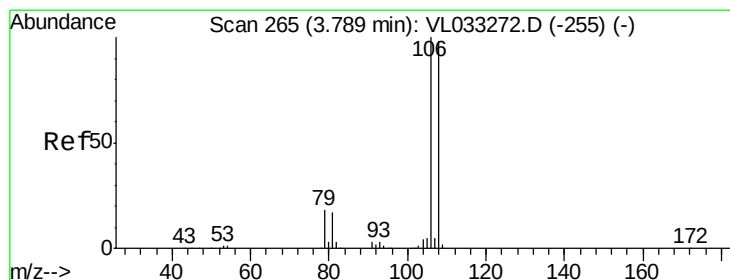
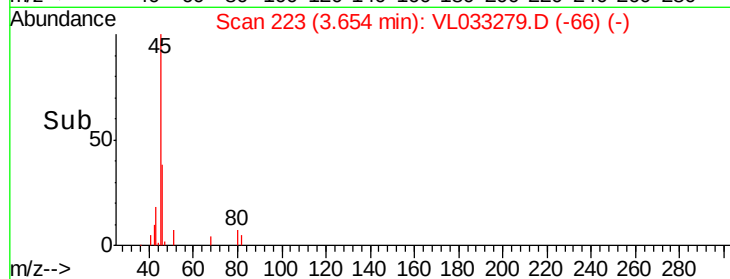
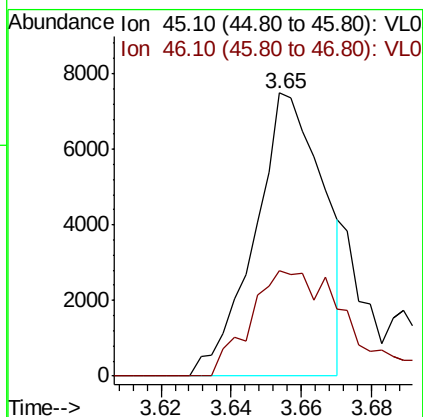
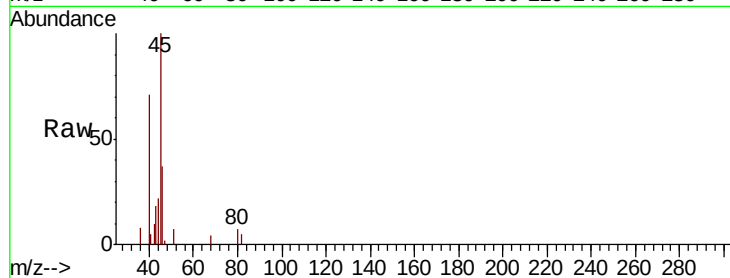
46 52.2 13.9 55.7

Manual Integrations

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MMDadoda

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#14

Bromoethene

Concen: 0.454 ppbv

RT: 3.79 min Scan# 266

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

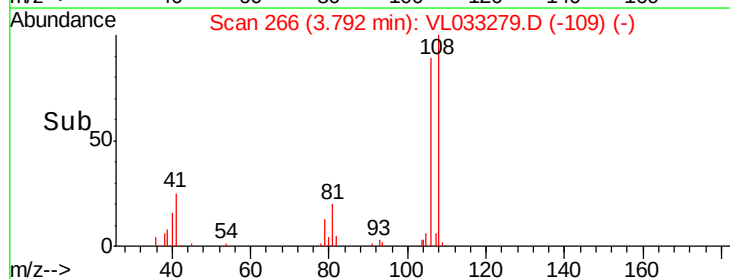
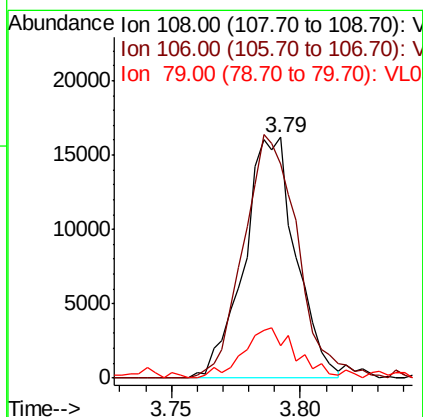
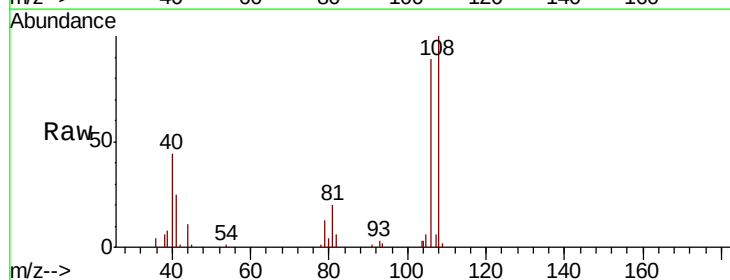
Tgt Ion: 108 Resp: 22619

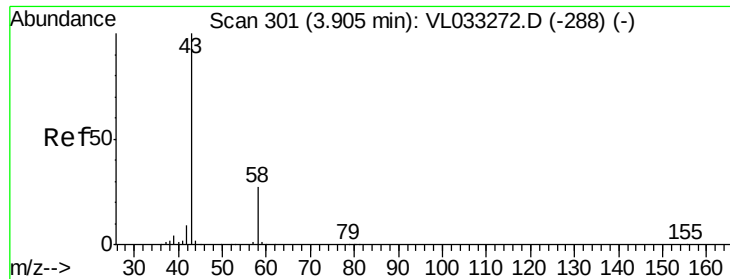
Ion Ratio Lower Upper

108 100

106 106.6 85.9 128.9

79 23.4 14.9 22.3#





#15

Acetone

Concen: 0.524 ppbv m

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 43 Resp: 73810

Ion Ratio Lower Upper

43 100

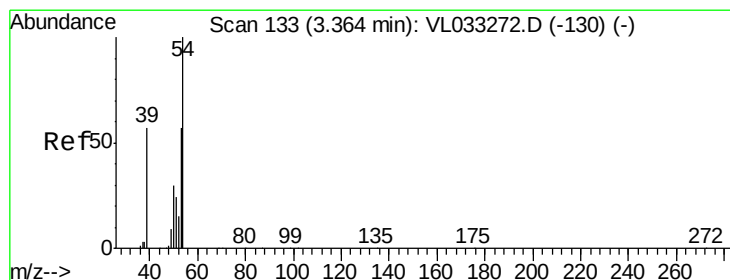
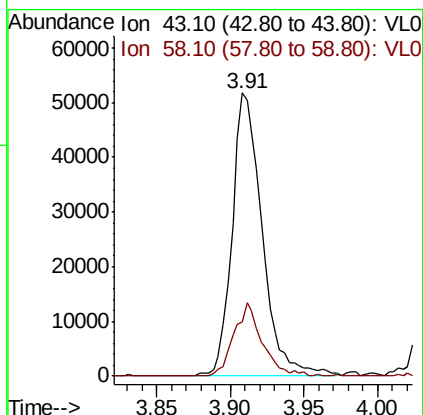
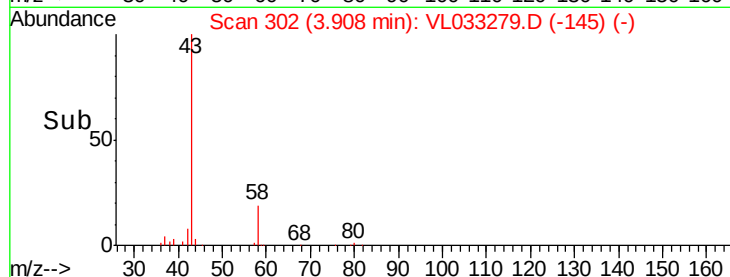
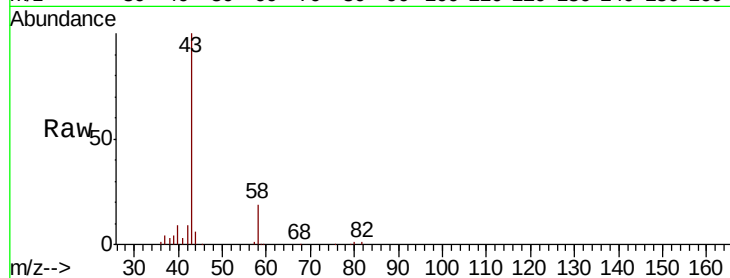
58 24.4 21.1 31.7

Manual Integrations

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MMDadoda

3/14/2019 5:05:53 AM



#16

1,3-Butadiene

Concen: 0.459 ppbv

RT: 3.36 min Scan# 132

Delta R.T. -0.00 min

Lab File: VL033279.D

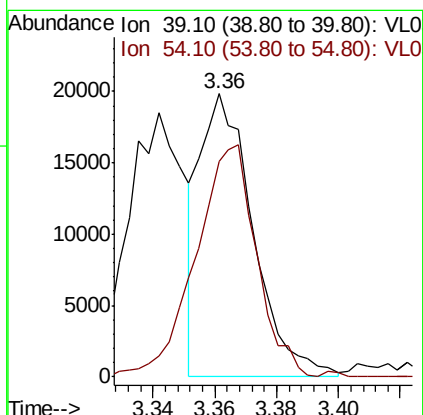
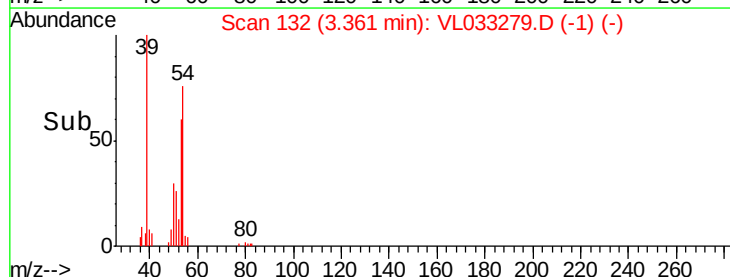
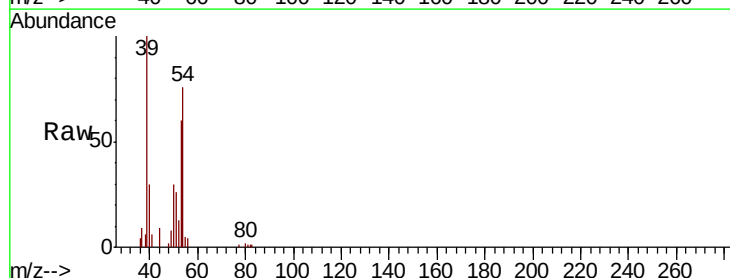
Acq: 12 Mar 2019 9:04

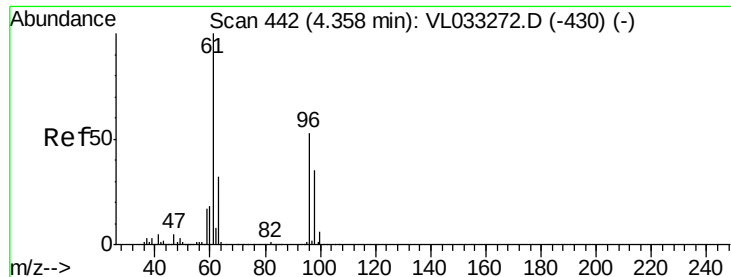
Tgt Ion: 39 Resp: 23626

Ion Ratio Lower Upper

39 100

54 94.9 76.6 114.8





#17

tert-Butyl alcohol

Concen: 0.504 ppbv

RT: 4.38 min Scan# 450

Delta R.T. 0.03 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 59 Resp: 9741

Ion Ratio Lower Upper

59 100

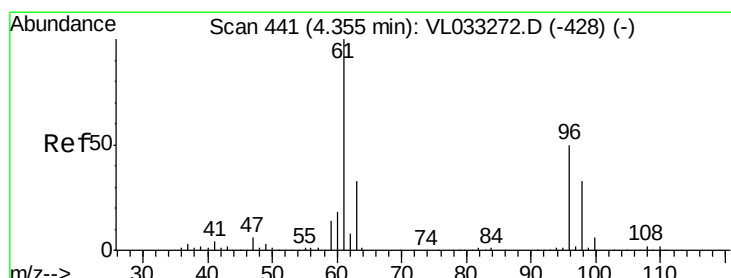
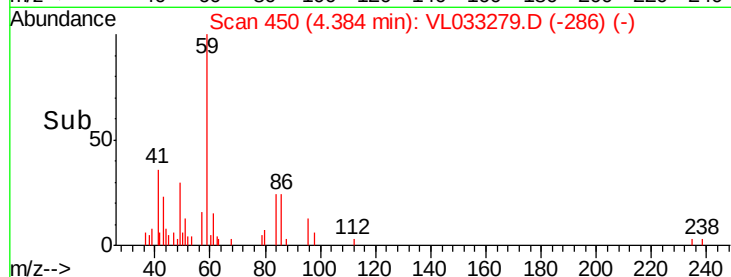
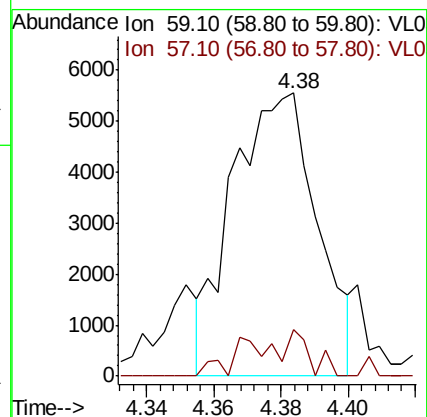
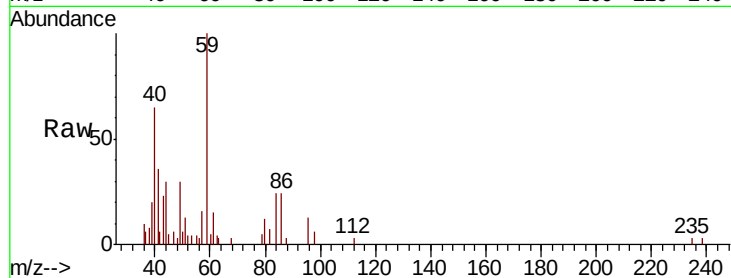
57 0.0 7.5 11.3#

Manual Integrations

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MMDadoda

3/14/2019 5:05:53 AM



#18

1,1-Dichloroethene

Concen: 0.501 ppbv

RT: 4.35 min Scan# 439

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

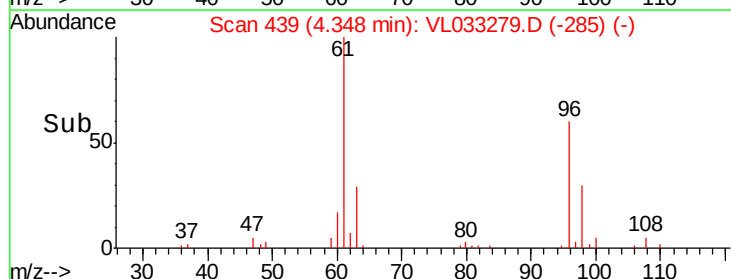
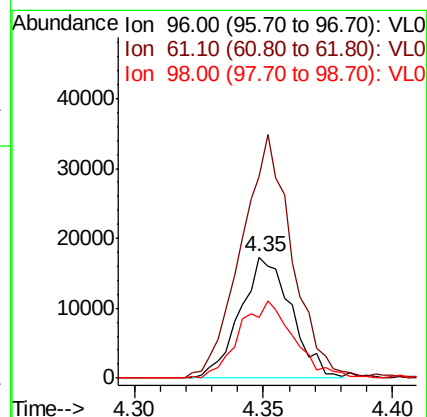
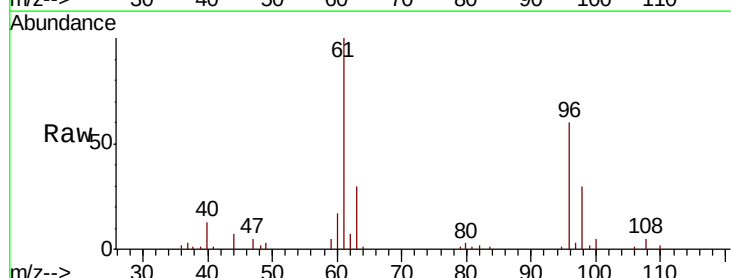
Tgt Ion: 96 Resp: 23841

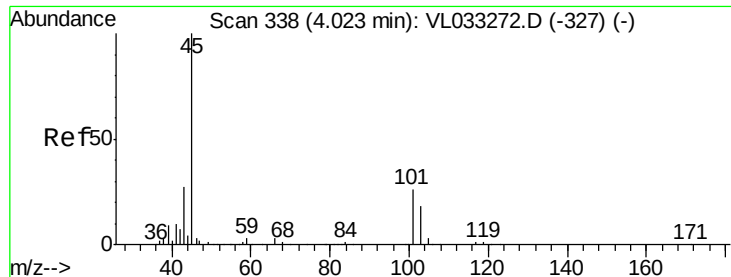
Ion Ratio Lower Upper

96 100

61 162.3 158.9 238.3

98 49.0 52.4 78.6#





#19

Isopropyl Alcohol

Concen: 0.525 ppbv m

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 45 Resp: 44584

Ion Ratio Lower Upper

45 100

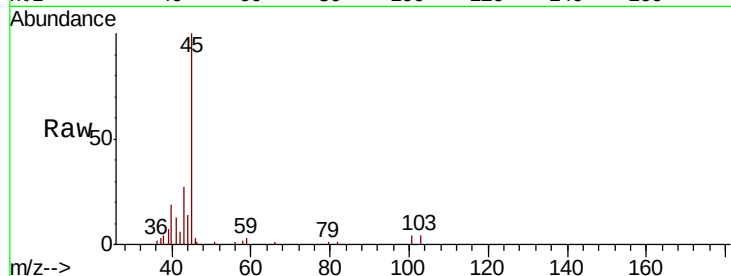
58 3.0 1.4 2.2#

Manual Integrations

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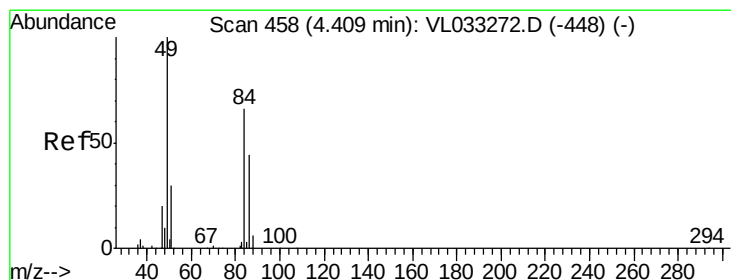
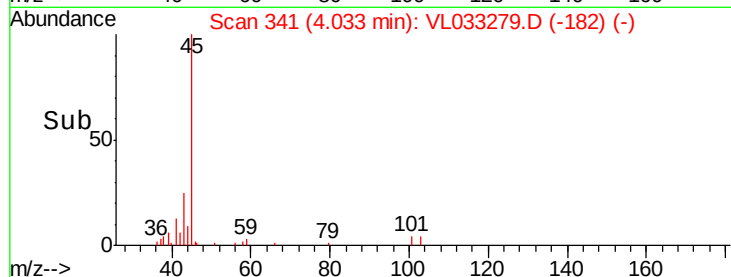
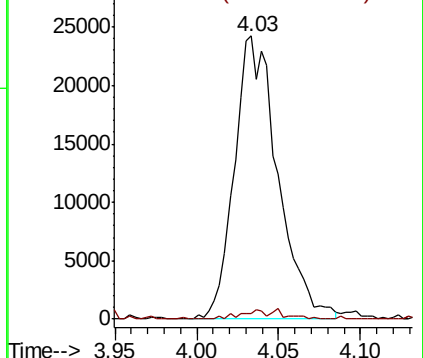
MMDadoda

3/14/2019 5:05:53 AM



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.548 ppbv

RT: 4.40 min Scan# 456

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Tgt Ion: 84 Resp: 26358

Ion Ratio Lower Upper

84 100

49 139.6 120.3 180.5

51 42.5 36.2 54.4

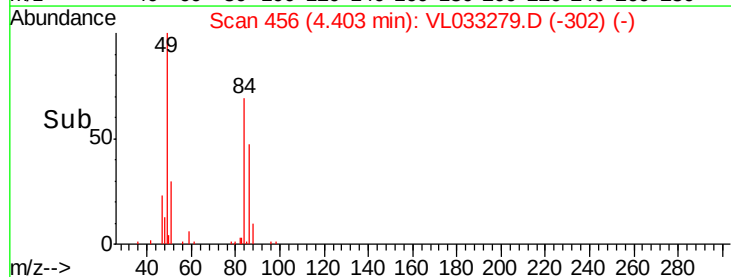
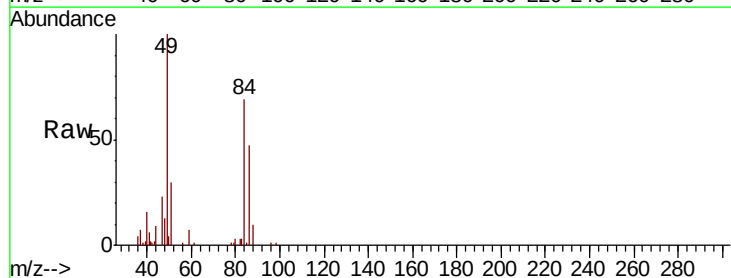
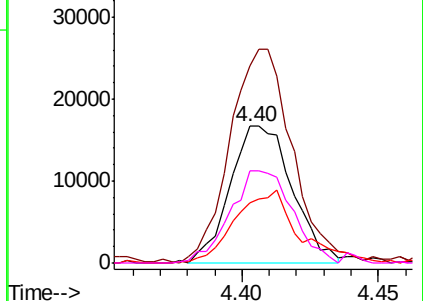
86 67.5 52.5 78.7

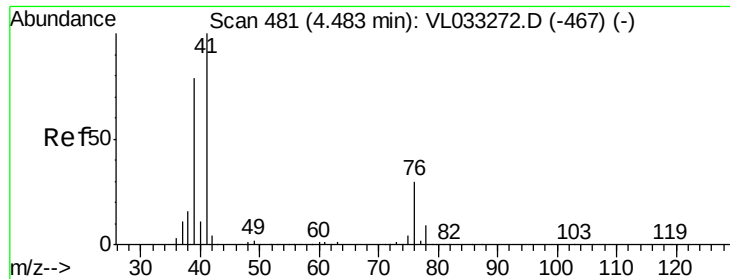
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





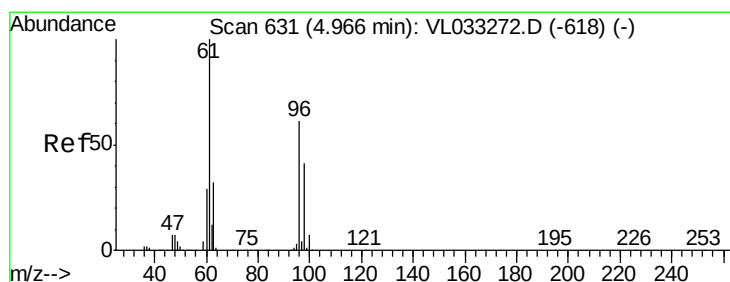
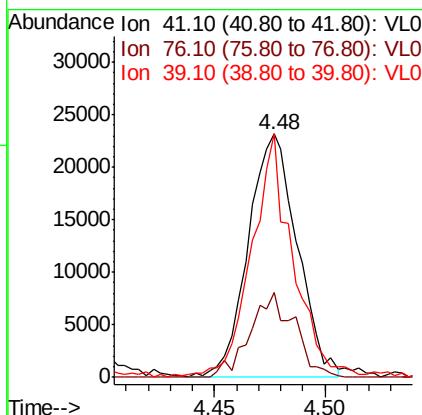
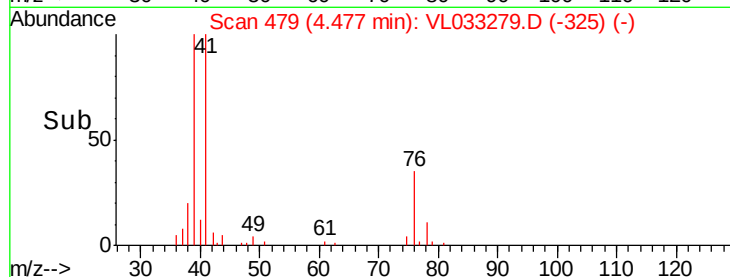
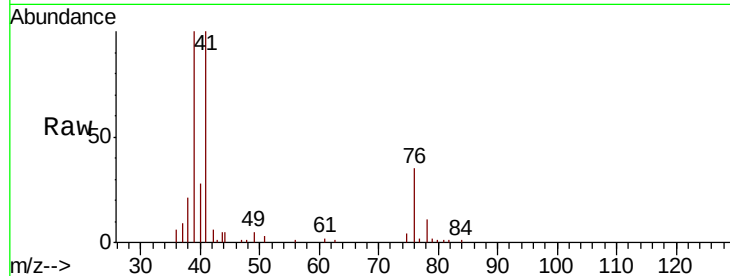
#21
 Allyl Chloride
 Concen: 0.505 ppbv
 RT: 4.48 min Scan# 479
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
41	100		
76	31.6	25.0	37.4
39	85.8	64.2	96.4

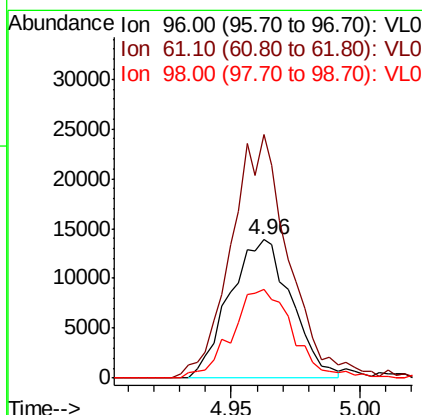
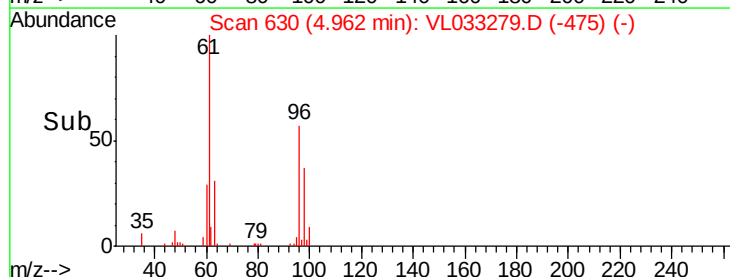
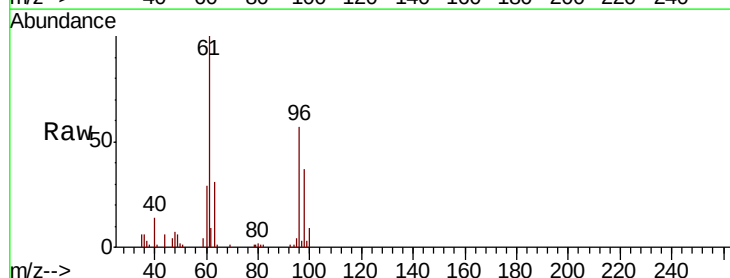
Manual Integrations
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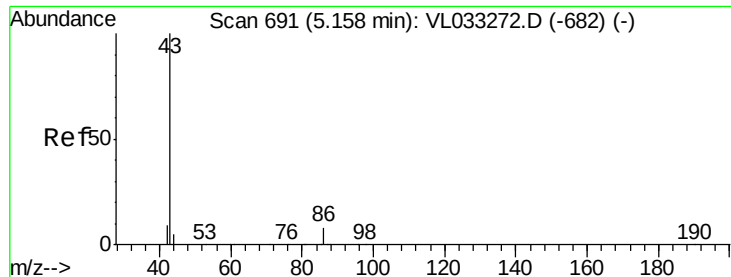
MMDadoda
 3/14/2019 5:05:53 AM



#22
 trans-1,2-Dichloroethene
 Concen: 0.461 ppbv
 RT: 4.96 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	167.0	131.6	197.4
98	60.8	54.1	81.1





#23

Vinyl Acetate

Concen: 0.524 ppbv m

RT: 5.15 min Scan# 689

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

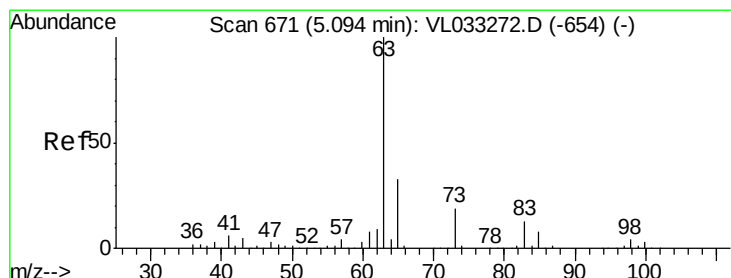
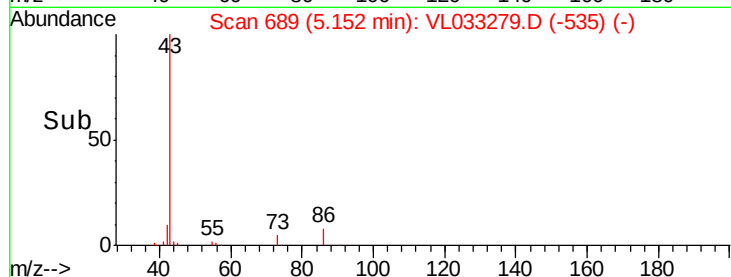
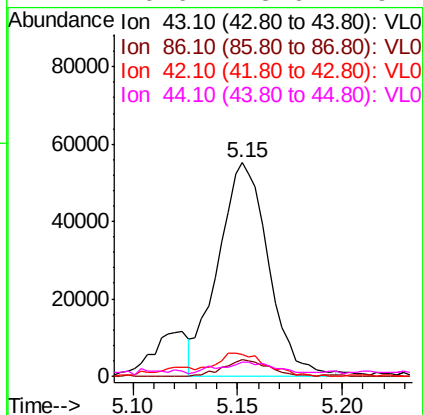
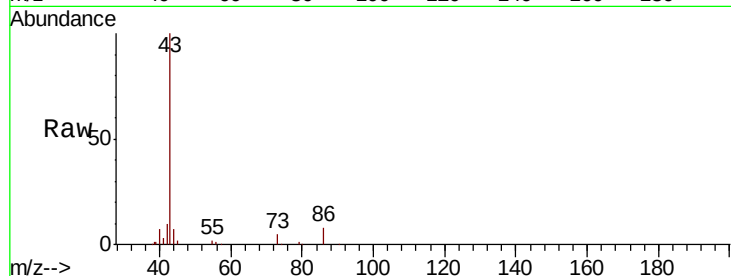
ClientSampleId :

VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.5	8.3
42	10.5	7.8	11.6
44	6.6	3.6	5.4

Manual Integrations
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MMDadoda
3/14/2019 5:05:53 AM



#24

1,1-Dichloroethane

Concen: 0.506 ppbv

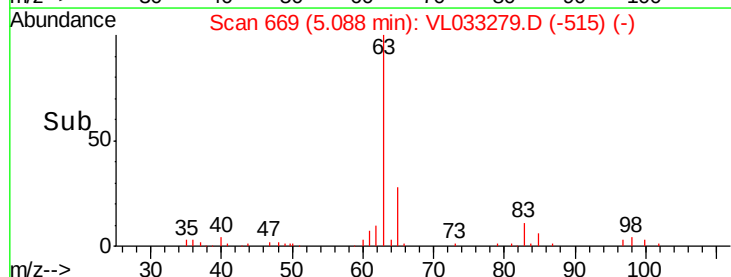
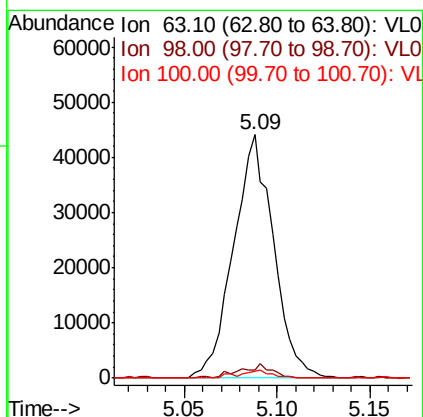
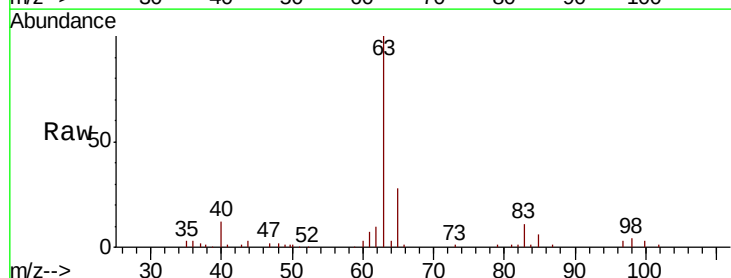
RT: 5.09 min Scan# 669

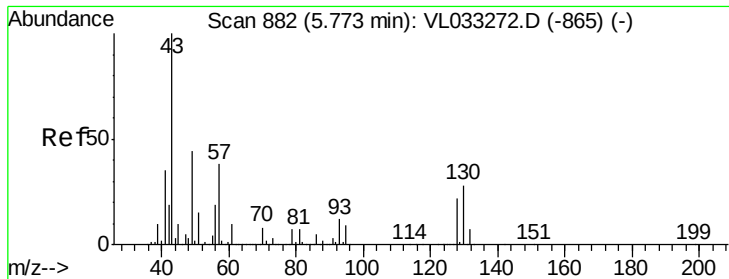
Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.5	2.2	6.6
100	2.9	1.5	4.4





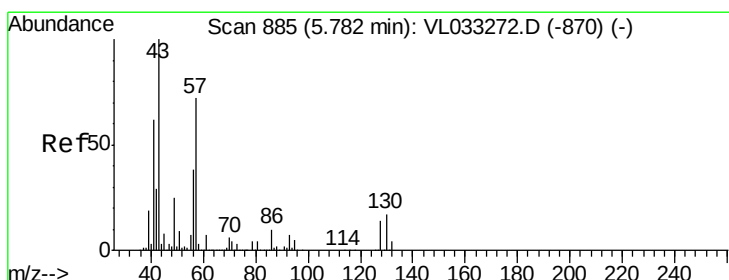
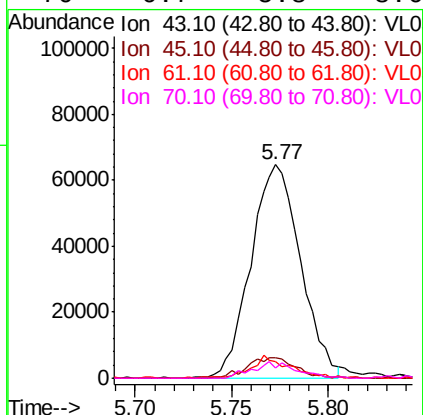
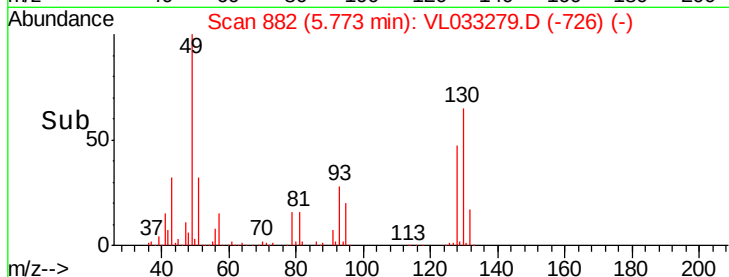
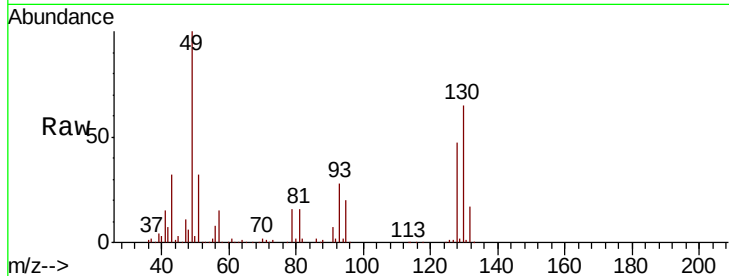
#25
Ethyl Acetate
Concen: 0.525 ppbv
RT: 5.77 min Scan# 882
Delta R.T. 0.00 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	115947		
45	9.7	7.8	11.6	
61	8.8	7.3	10.9	
70	6.7	5.8	8.6	

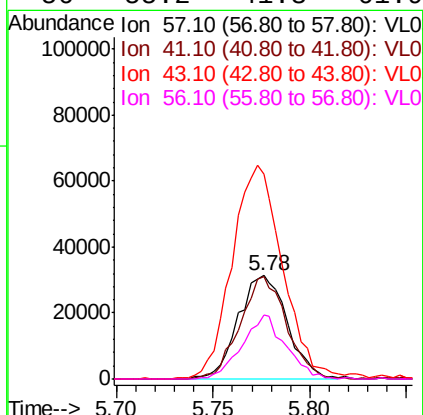
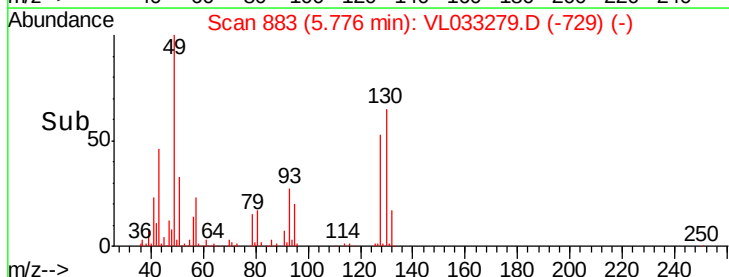
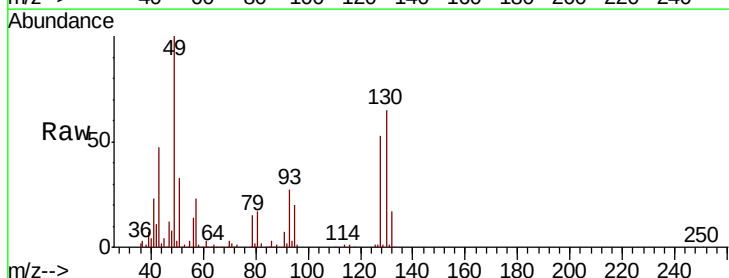
Manual Integrations
APPROVED

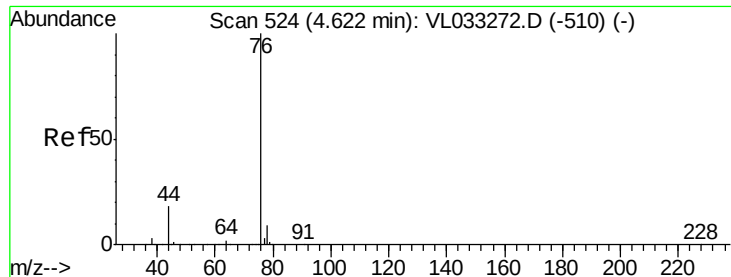
MMDadoda
3/14/2019 5:05:53 AM



#26
Hexane
Concen: 0.535 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Resp	Lower	Upper
57	100	55198		
41	94.0	70.7	106.1	
43	217.2	178.6	267.8	
56	55.2	41.3	61.9	





#27

Carbon Disulfide

Concen: 0.443 ppbv

RT: 4.62 min Scan# 524

Delta R.T. 0.00 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

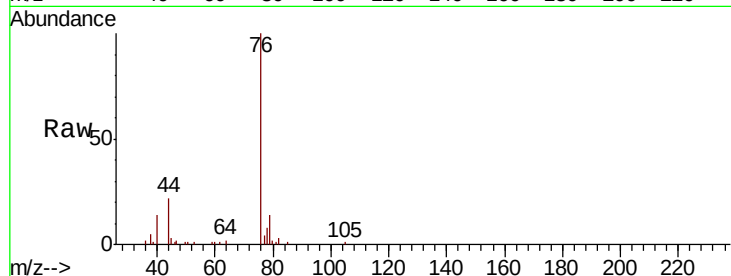
ClientSampleId :

VSTDIC0.5

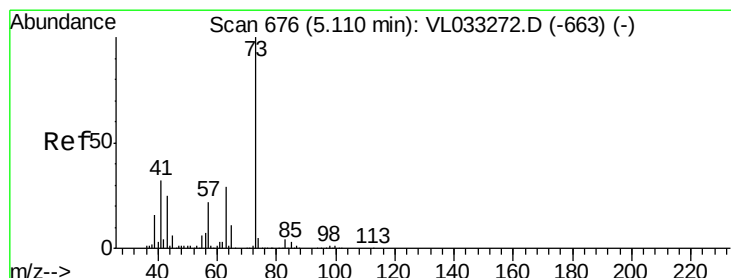
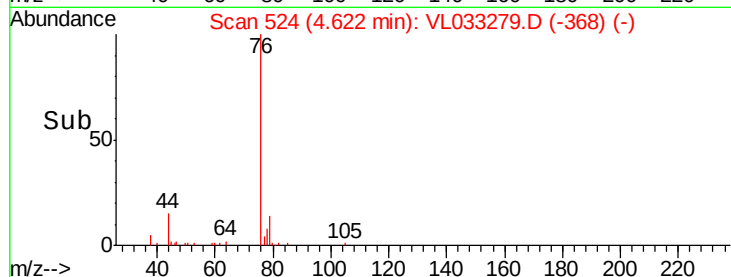
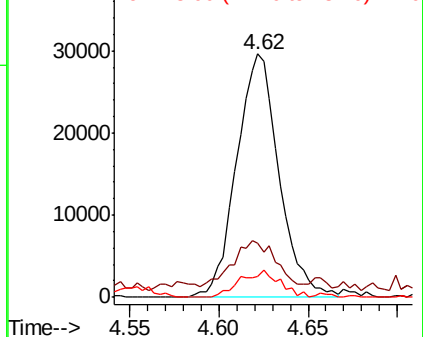
Tgt Ion:	76	Resp:	48973
Ion Ratio	Lower	Upper	
76	100		
44	29.6	15.1	22.7#
78	11.0	7.4	11.0

Manual Integrations
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3/14/2019 5:05:53 AM



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: 0.525 ppbv

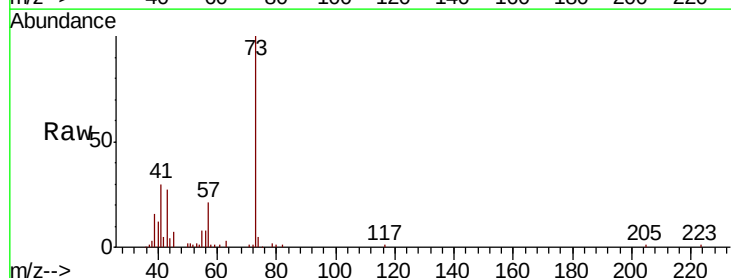
RT: 5.12 min Scan# 679

Delta R.T. 0.01 min

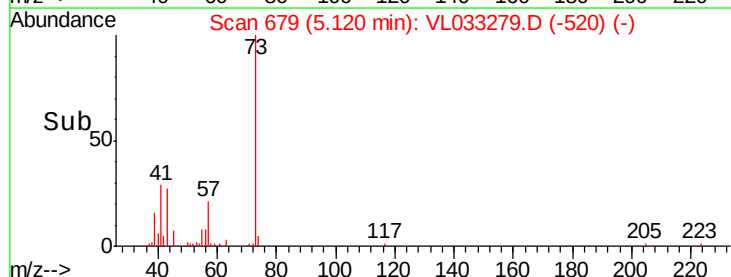
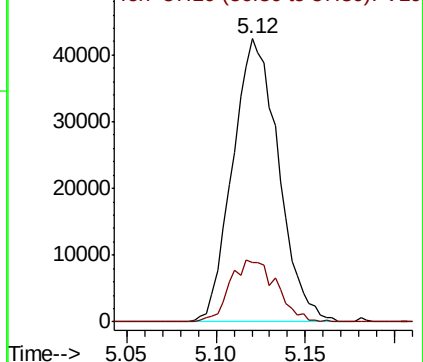
Lab File: VL033279.D

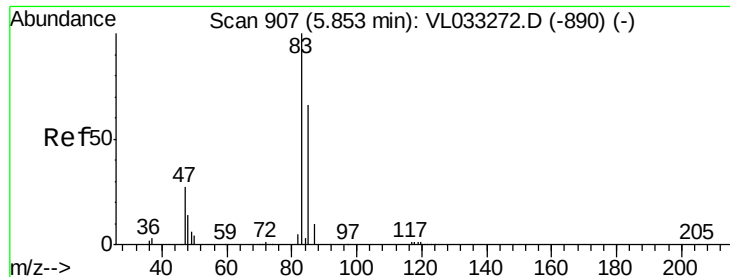
Acq: 12 Mar 2019 9:04

Tgt Ion:	73	Resp:	76002
Ion Ratio	Lower	Upper	
73	100		
57	22.1	17.9	26.9



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





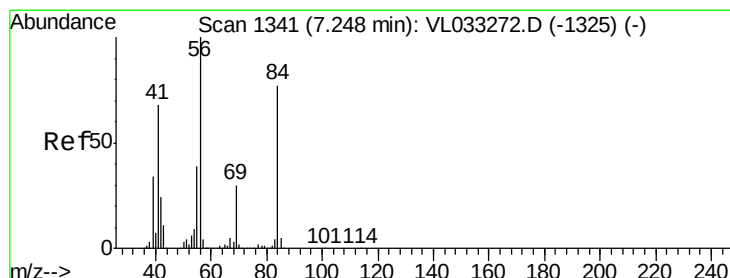
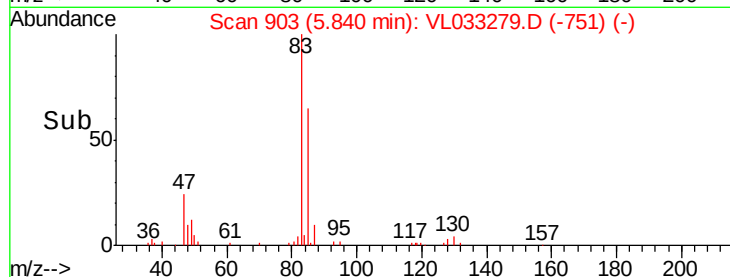
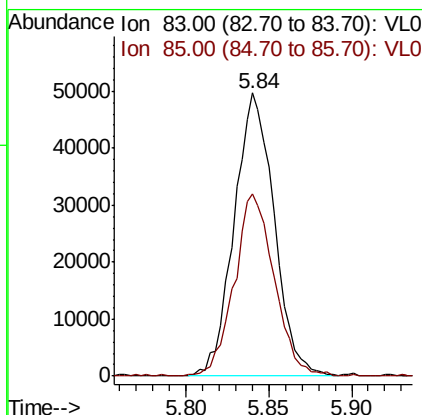
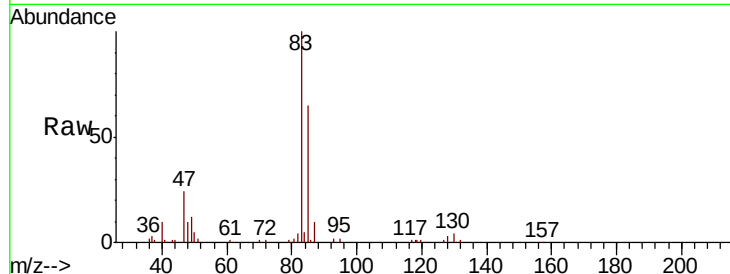
#29
Chloroform
Concen: 0.533 ppbv
RT: 5.84 min Scan# 903
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	83396		
85	65.6	52.5	78.7	

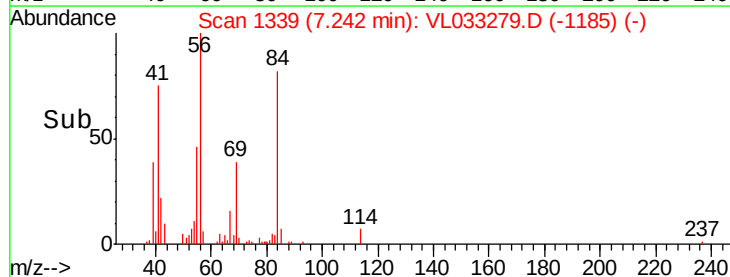
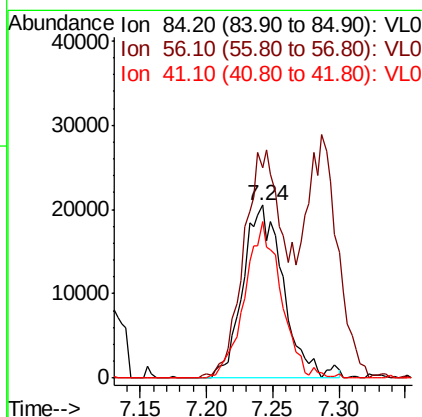
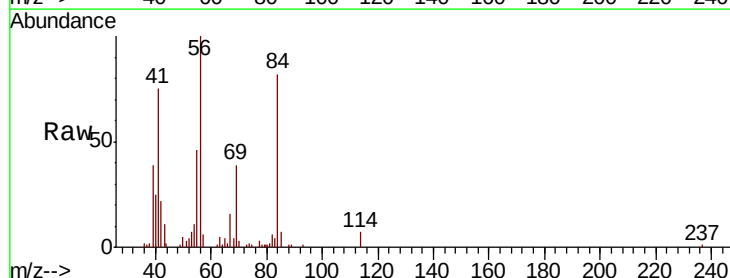
Manual Integrations
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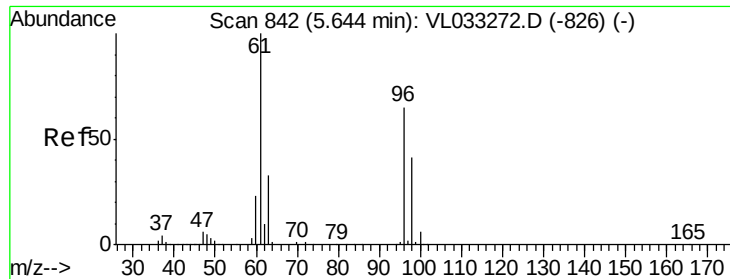
MMDadoda
3/14/2019 5:05:53 AM



#30
Cyclohexane
Concen: 0.552 ppbv m
RT: 7.24 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Resp	Lower	Upper
84	100	43187		
56	0.0	112.0	168.0#	
41	81.8	69.9	104.9	





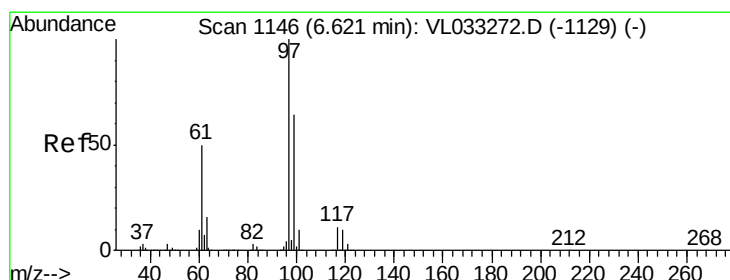
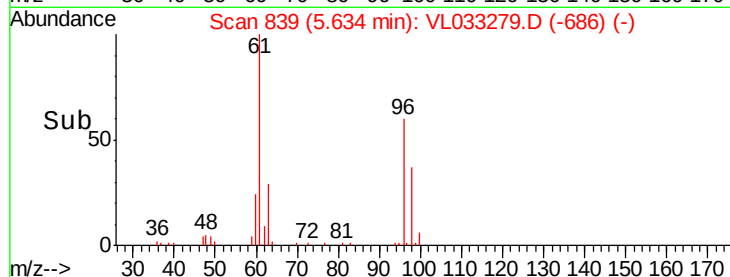
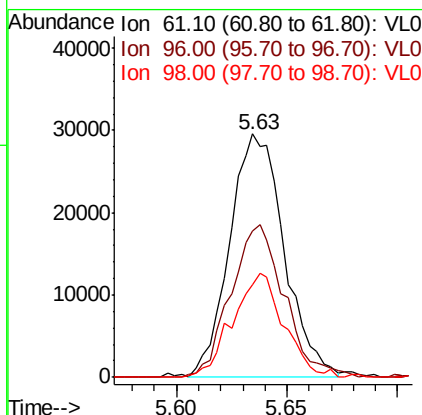
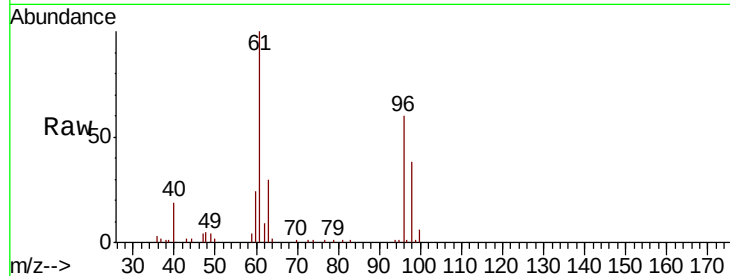
#31
 cis-1,2-Dichloroethene
 Concen: 0.518 ppbv
 RT: 5.63 min Scan# 839
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
61	100	50768		
96	60.0	51.8	77.8	
98	38.1	32.9	49.3	

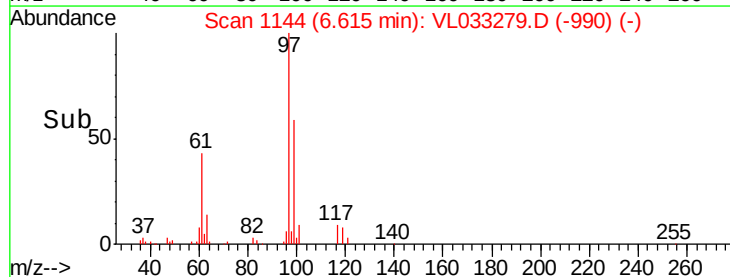
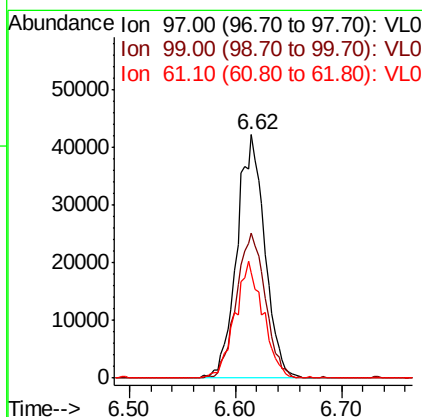
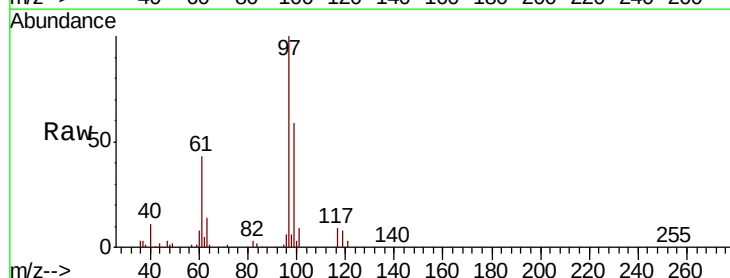
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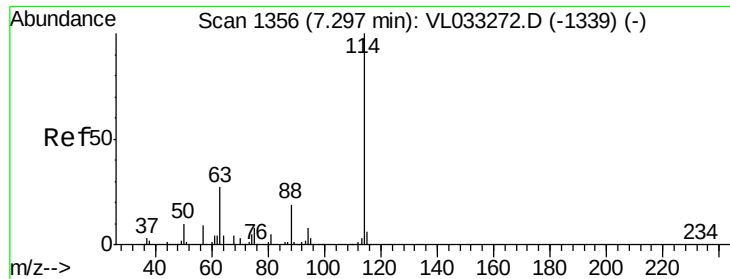
MMDadoda
 3/14/2019 5:05:53 AM



#32
 1,1,1-Trichloroethane
 Concen: 0.503 ppbv m
 RT: 6.62 min Scan# 1144
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	76931		
99	62.2	51.7	77.5	
61	48.3	39.7	59.5	





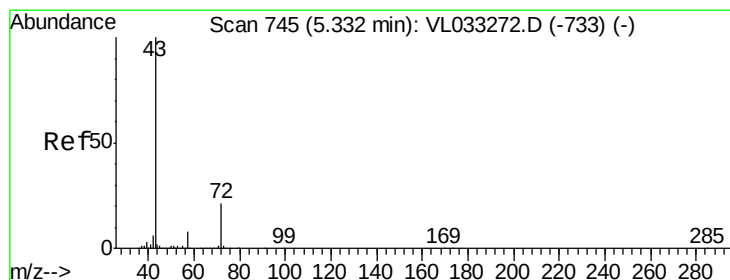
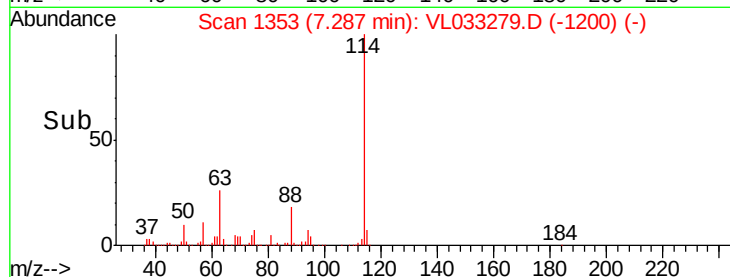
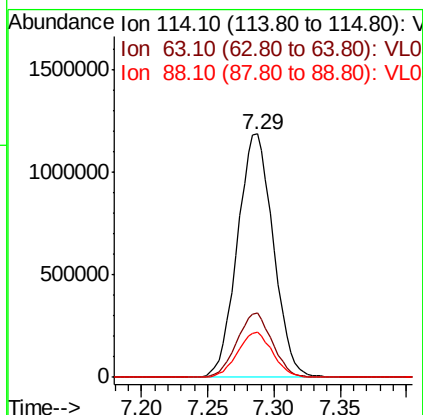
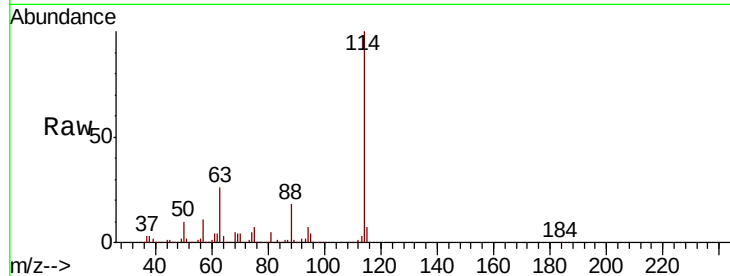
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.0	21.5	32.3
88	18.2	14.6	22.0

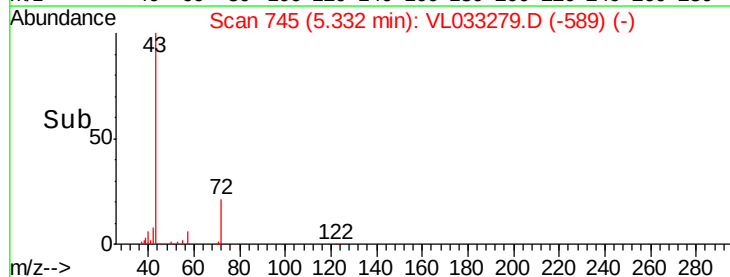
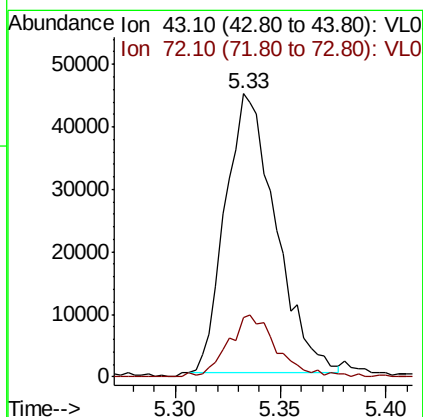
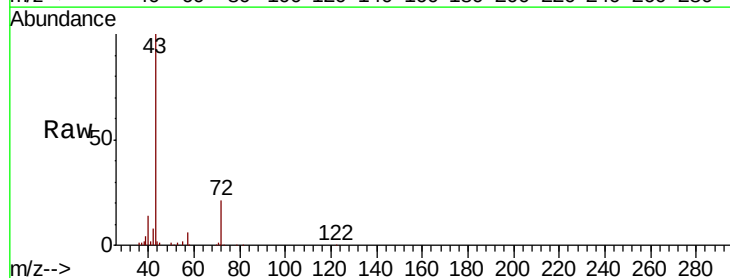
Manual Integrations
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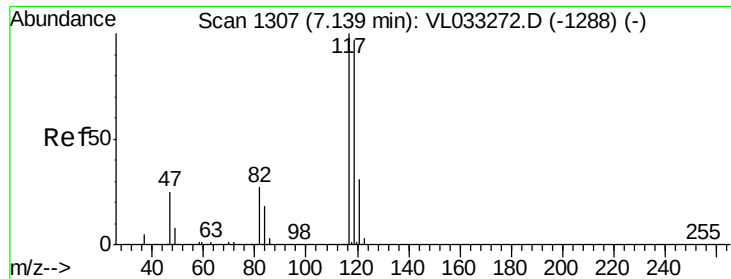
MMDadoda
 3/14/2019 5:05:53 AM



#34
 2-Butanone
 Concen: 0.504 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	17.0	25.6





#35

Carbon Tetrachloride

Concen: 0.460 ppbv

RT: 7.13 min Scan# 1304

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

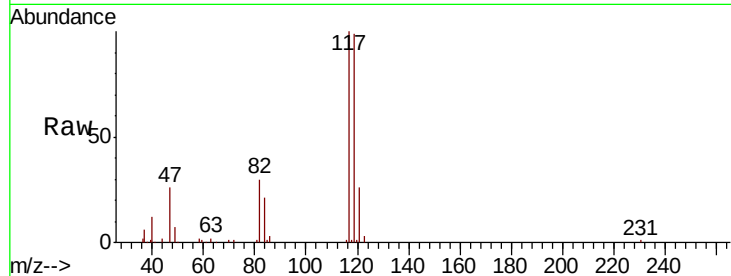
ClientSampleId :

VSTDIC0.5

Tgt Ion:	117	Resp:	75035
Ion Ratio	Lower	Upper	
117	100		
119	99.1	77.4	116.0
121	25.8	24.9	37.3

Manual Integrations
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MMDadoda
3/14/2019 5:05:53 AM

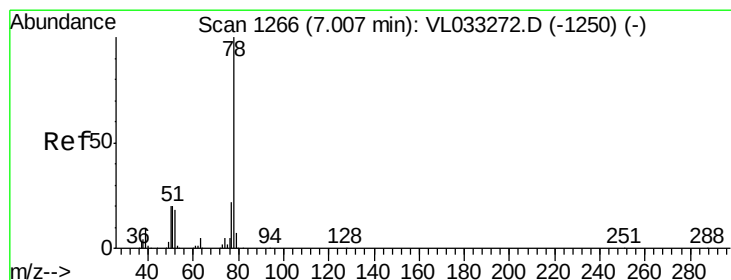
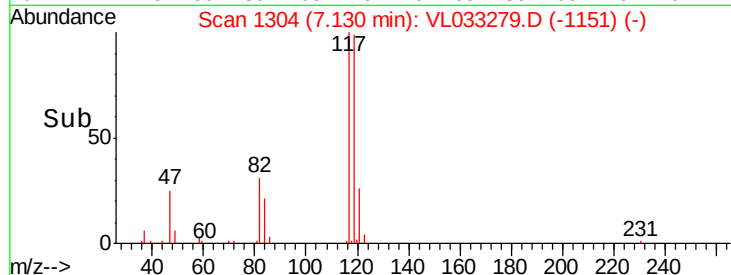
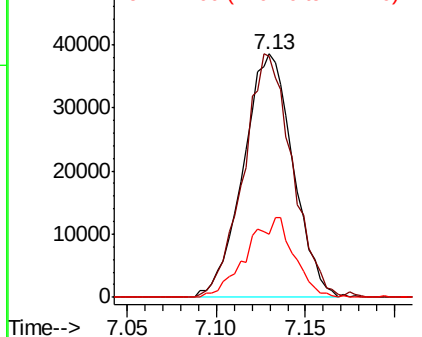


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.514 ppbv

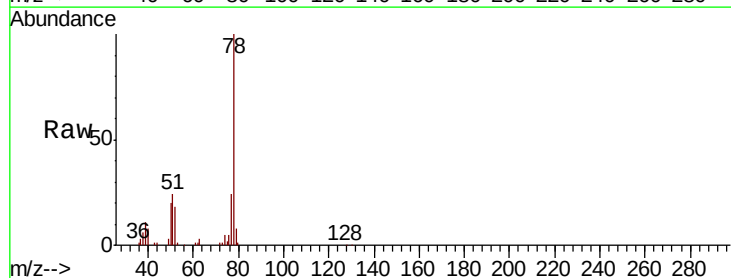
RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Tgt Ion:	78	Resp:	104938
Ion Ratio	Lower	Upper	
78	100		
77	23.9	17.7	26.5
50	20.3	15.7	23.5

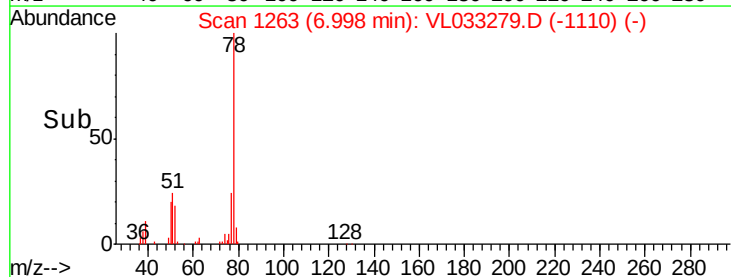
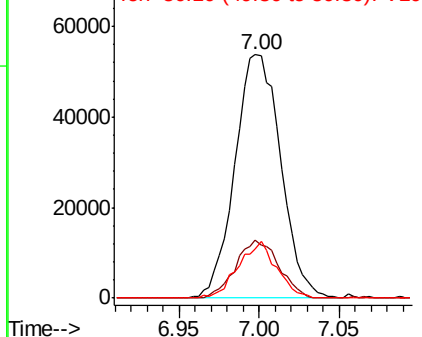


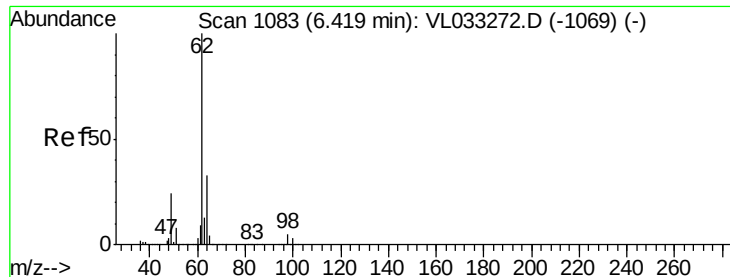
Abundance

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





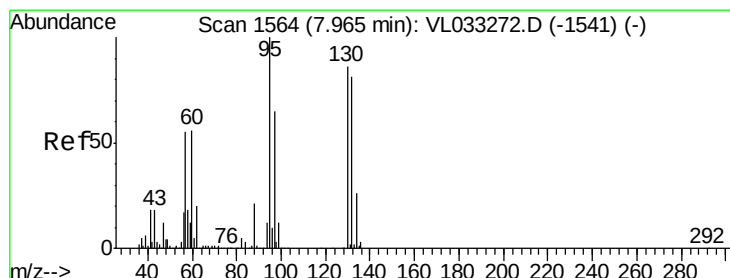
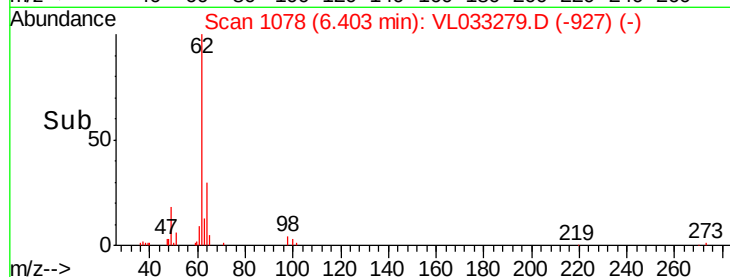
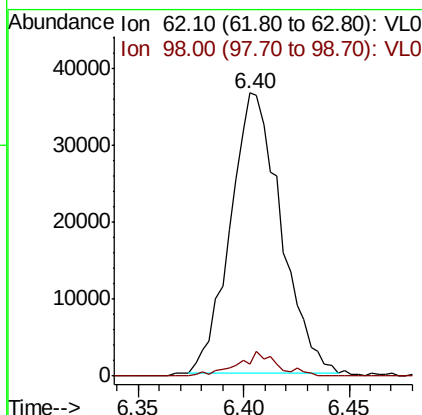
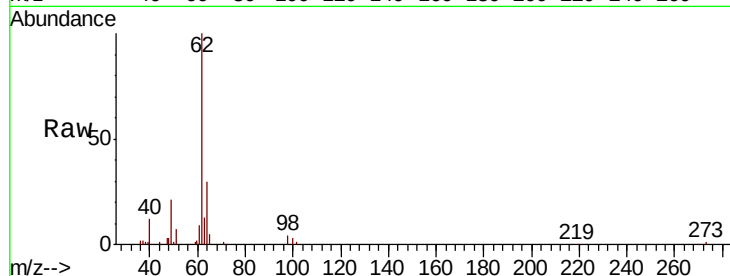
#37
 1,2-Dichloroethane
 Concen: 0.486 ppbv
 RT: 6.40 min Scan# 1078
 Delta R.T. -0.02 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	60830		
98	6.9	4.5	6.7#	

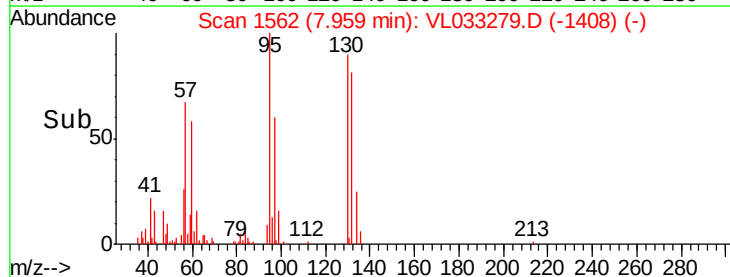
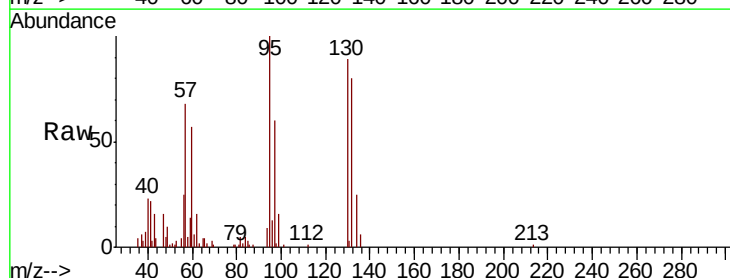
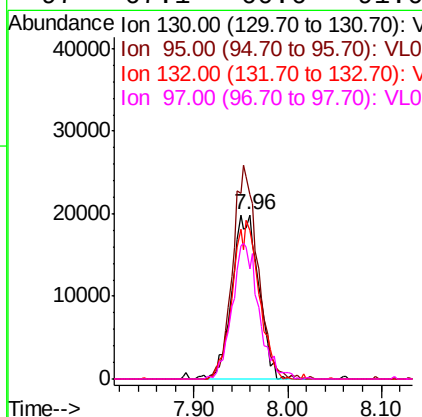
Manual Integrations
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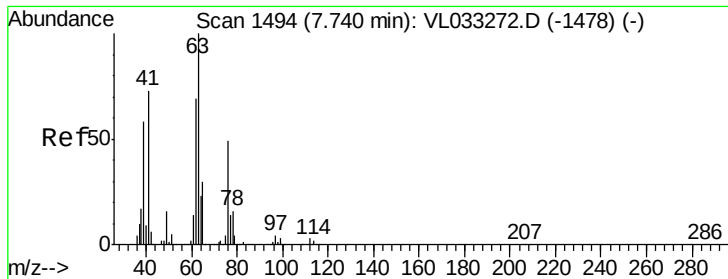
MMDadoda
 3/14/2019 5:05:53 AM



#38
 Trichloroethene
 Concen: 0.496 ppbv m
 RT: 7.96 min Scan# 1562
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	39604		
95	112.5	93.3	139.9	
132	90.1	75.4	113.2	
97	67.1	60.6	91.0	





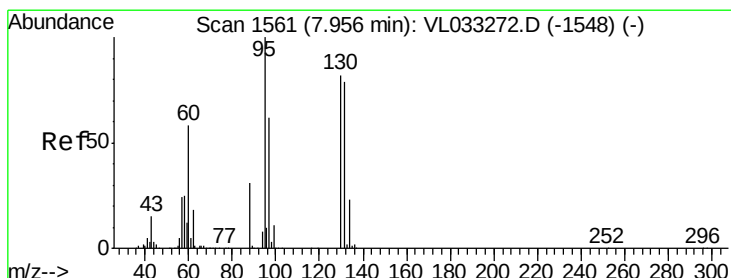
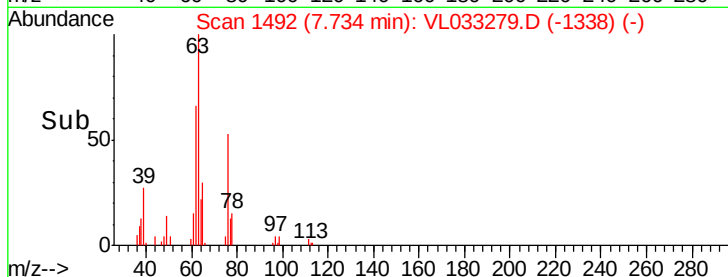
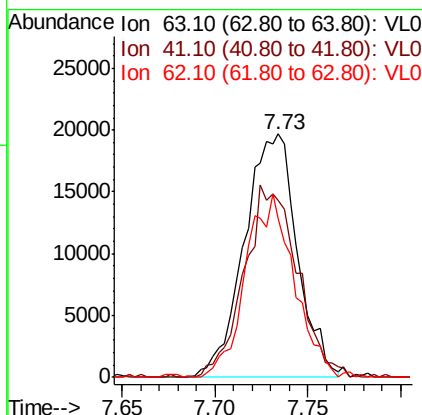
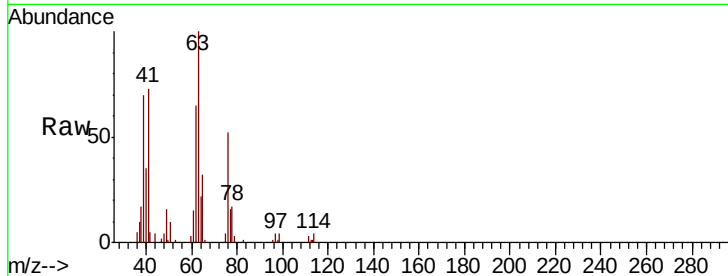
#39
 1,2-Dichloropropane
 Concen: 0.505 ppbv
 RT: 7.73 min Scan# 1492
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
63	100		
41	72.9	58.3	87.5
62	65.3	55.3	82.9

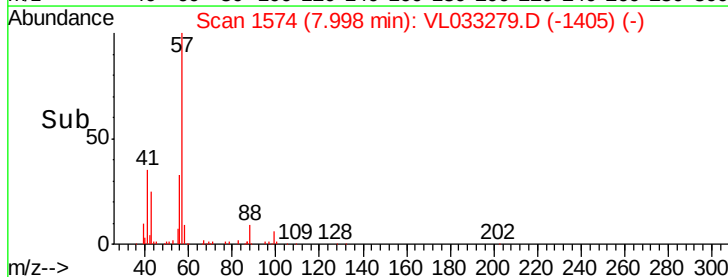
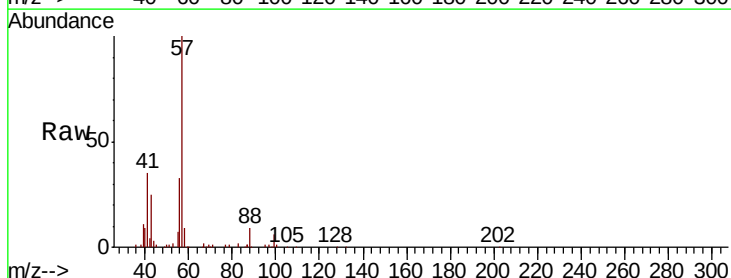
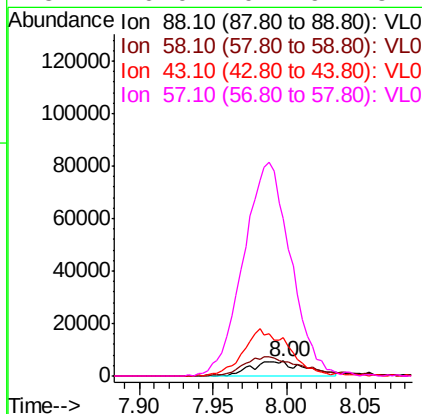
Manual Integrations
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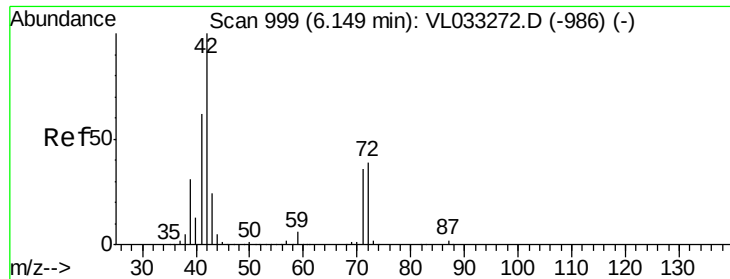
MMDadoda
 3/14/2019 5:05:53 AM



#40
 1,4-Dioxane
 Concen: 0.492 ppbv m
 RT: 8.00 min Scan# 1574
 Delta R.T. 0.04 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	107.0	160.6#
43	0.0	230.2	345.4#
57	0.0	1014.9	1522.3#





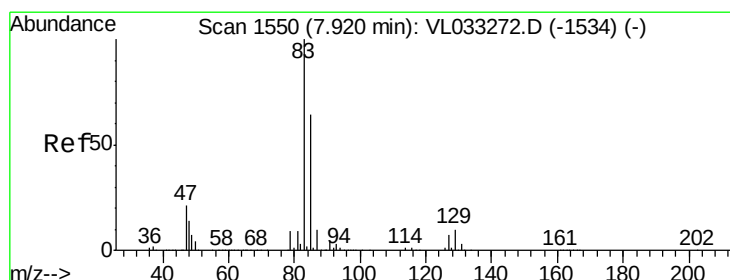
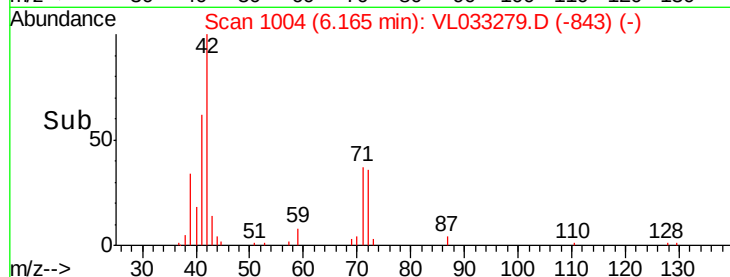
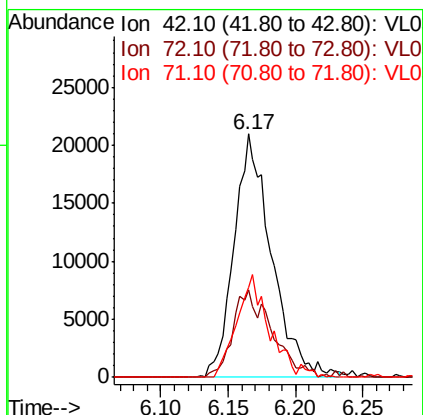
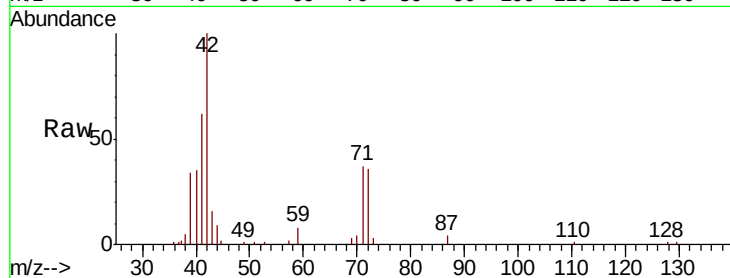
#41
Tetrahydrofuran
Concen: 0.510 ppbv m
RT: 6.17 min Scan# 1004
Delta R.T. 0.02 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
42	100		
72	38.3	30.6	46.0
71	37.2	29.7	44.5

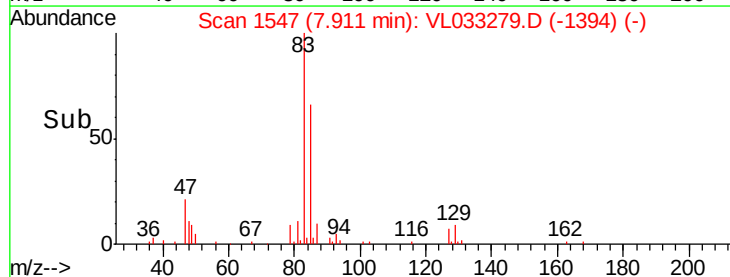
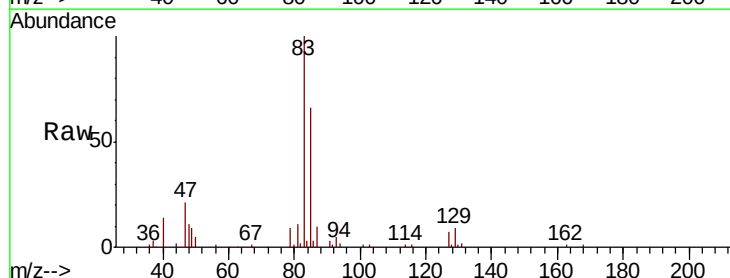
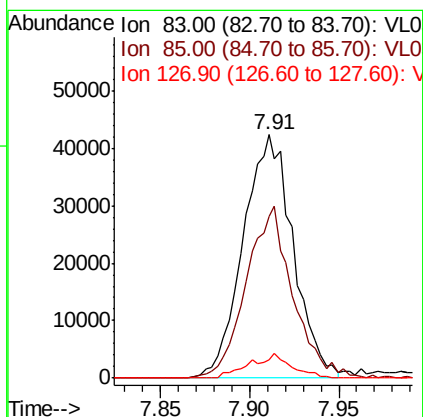
Manual Integrations
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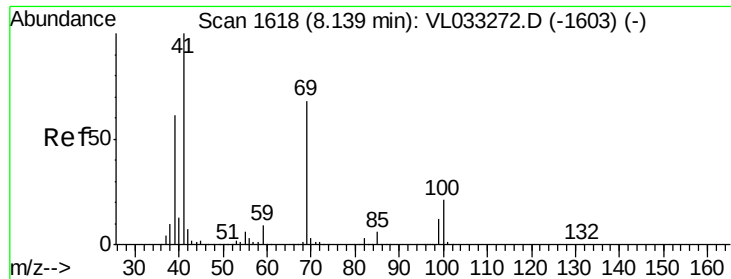
MMDadoda
3/14/2019 5:05:53 AM



#42
Bromodichloromethane
Concen: 0.486 ppbv
RT: 7.91 min Scan# 1547
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.4	51.0	76.4
127	7.5	6.0	9.0





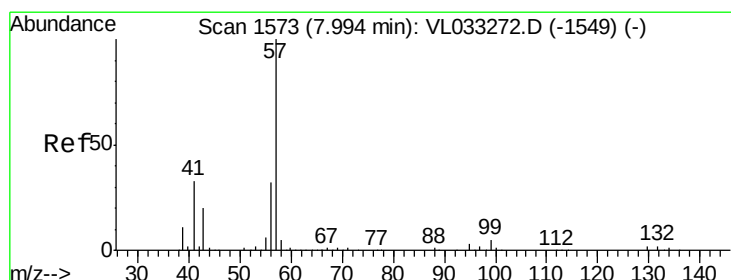
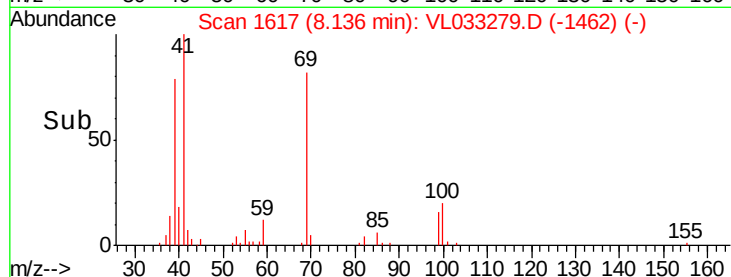
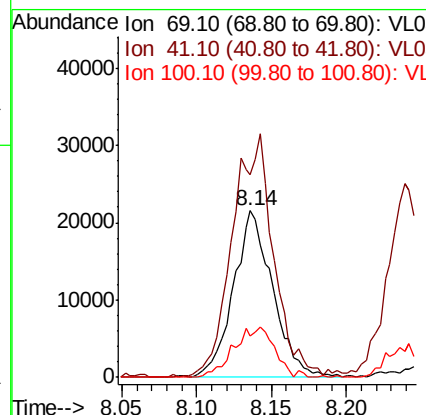
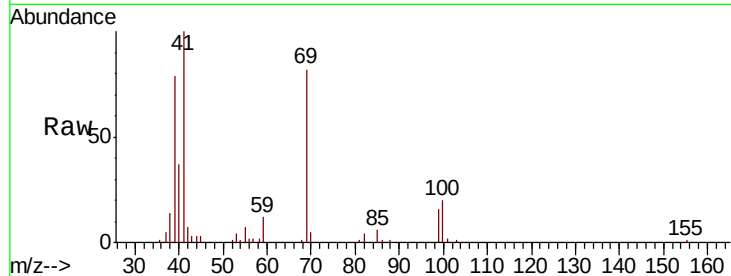
#43
Methyl Methacrylate
Concen: 0.500 ppbv
RT: 8.14 min Scan# 1617
Delta R.T. -0.00 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
69	100		
41	154.2	121.0	181.4
100	31.4	24.4	36.6

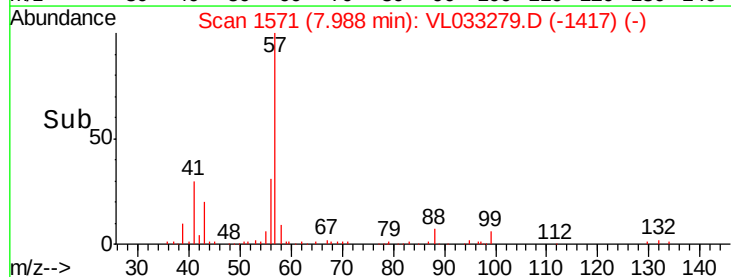
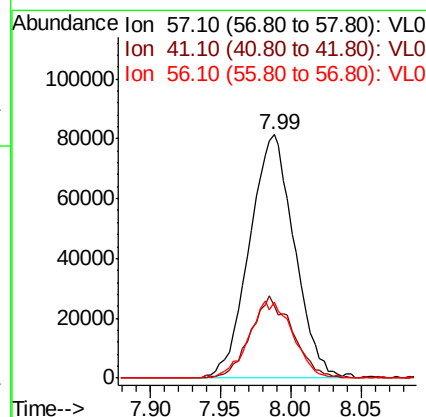
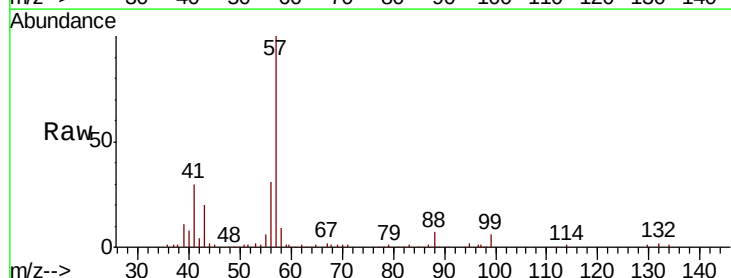
Manual Integrations
APPROVED

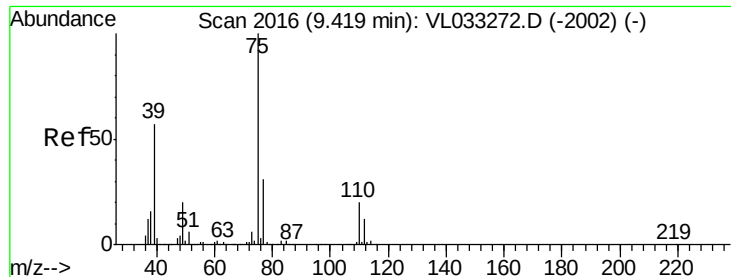
MMDadoda
3/14/2019 5:05:53 AM



#44
2,2,4-Trimethylpentane
Concen: 0.520 ppbv
RT: 7.99 min Scan# 1571
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
57	100		
41	31.8	26.2	39.2
56	31.0	24.8	37.2





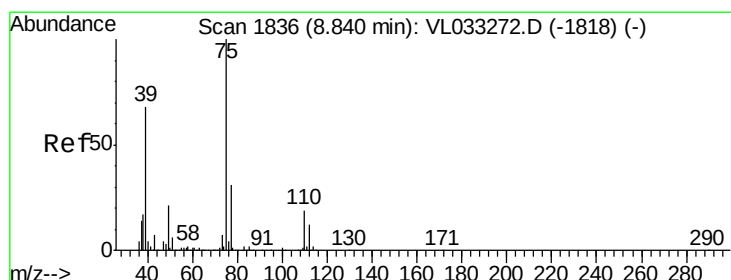
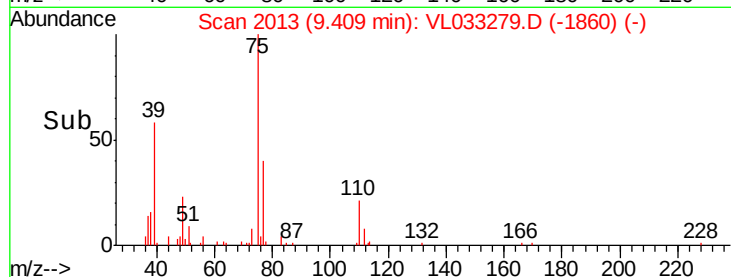
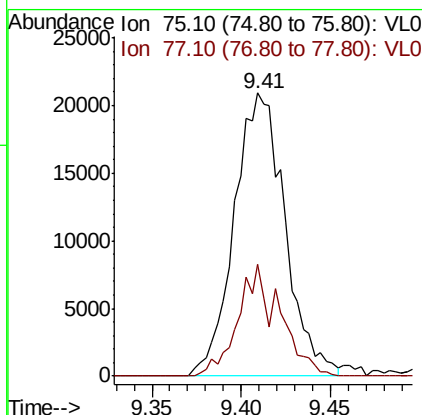
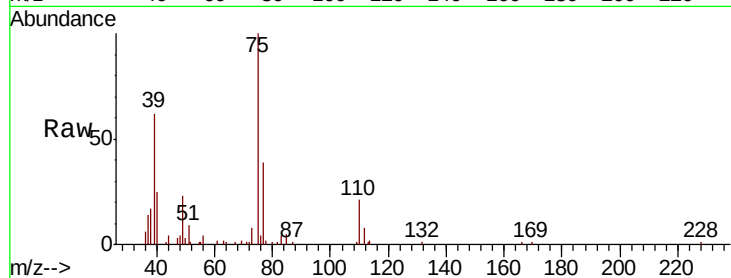
#45
 t-1,3-Dichloropropene
 Concen: 0.427 ppbv
 RT: 9.41 min Scan# 2013
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion: 75 Resp: 41562
 Ion Ratio Lower Upper
 75 100
 77 41.0 24.4 36.6#

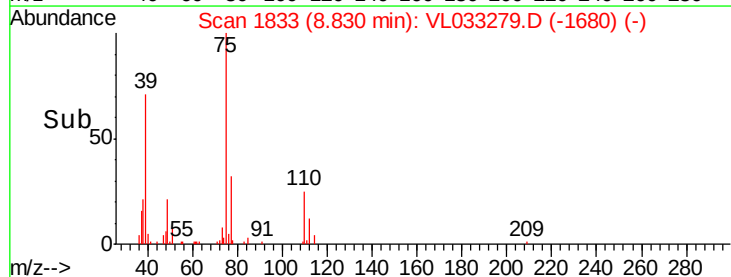
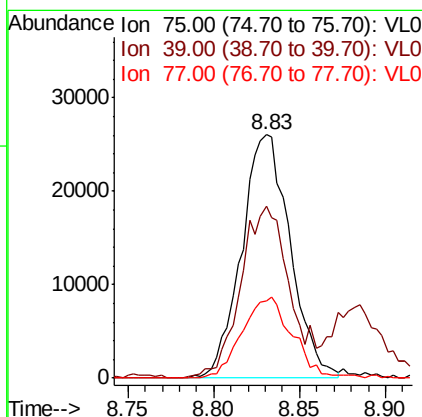
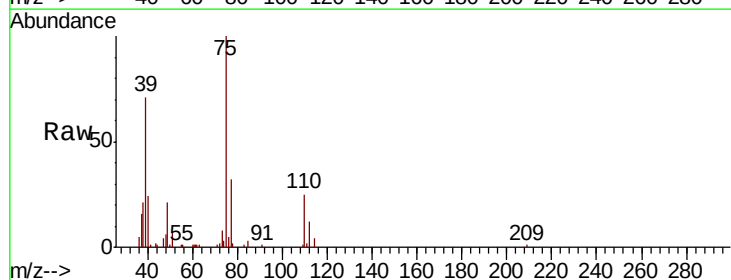
Manual Integrations
 APPROVED

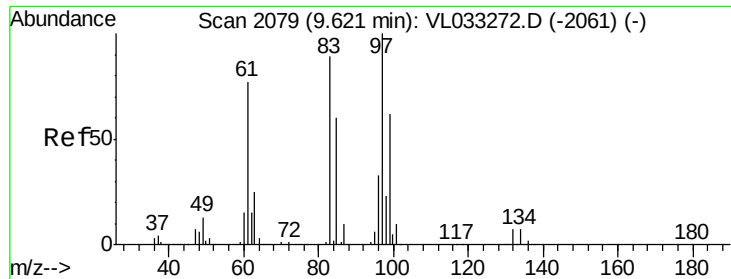
MMDadoda
 3/14/2019 5:05:53 AM



#46
 cis-1,3-Dichloropropene
 Concen: 0.448 ppbv
 RT: 8.83 min Scan# 1833
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion: 75 Resp: 51222
 Ion Ratio Lower Upper
 75 100
 39 69.8 54.2 81.2
 77 31.9 24.5 36.7





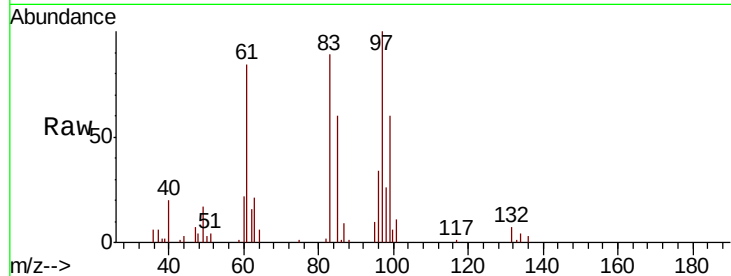
#47
 1,1,2-Trichloroethane
 Concen: 0.494 ppbv m
 RT: 9.61 min Scan# 2075
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.5	71.0	106.4
85	59.8	48.2	72.4
99	59.6	49.3	73.9

Manual Integrations
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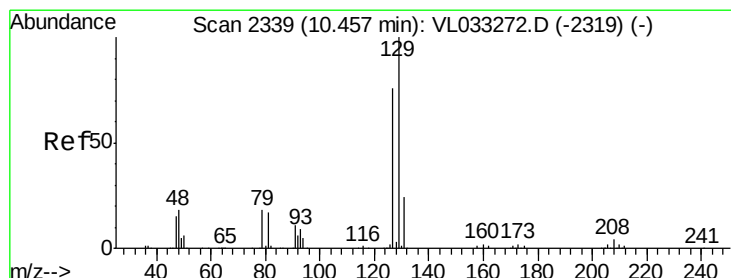
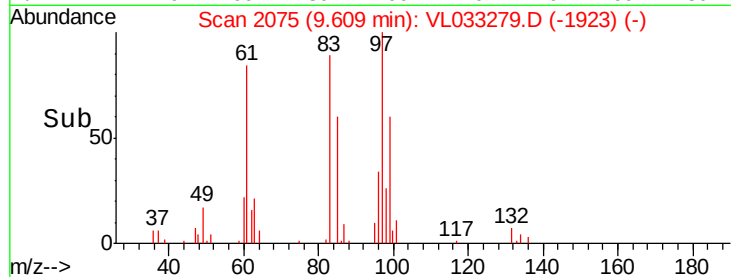
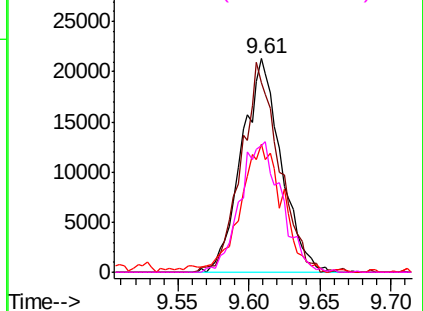
Abundance

Ion 97.00 (96.70 to 97.70): VL0

Ion 83.00 (82.70 to 83.70): VL0

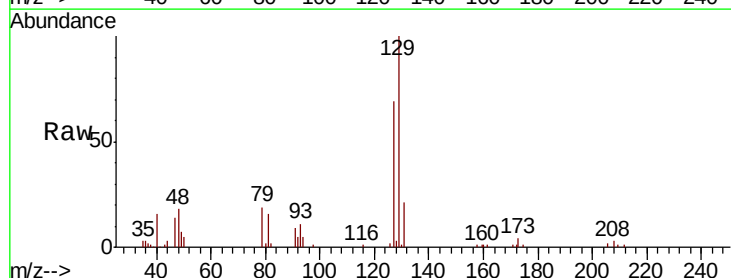
Ion 85.00 (84.70 to 85.70): VL0

Ion 99.00 (98.70 to 99.70): VL0



#48
 Dibromochloromethane
 Concen: 0.458 ppbv m
 RT: 10.44 min Scan# 2334
 Delta R.T. -0.02 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

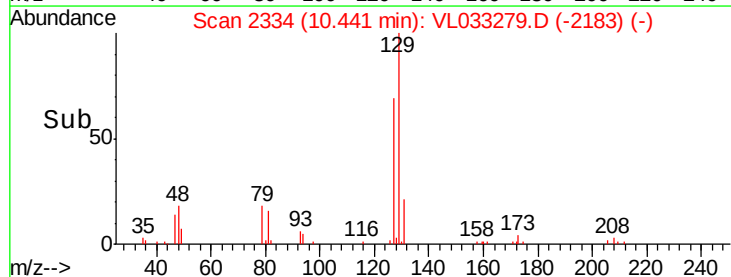
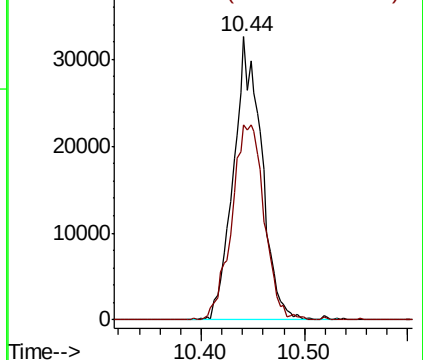
Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.4	38.9	116.6

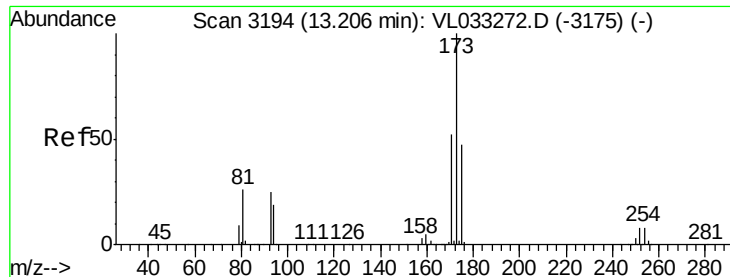


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.442 ppbv m

RT: 13.19 min Scan# 3190

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 173 Resp: 48081

Ion Ratio Lower Upper

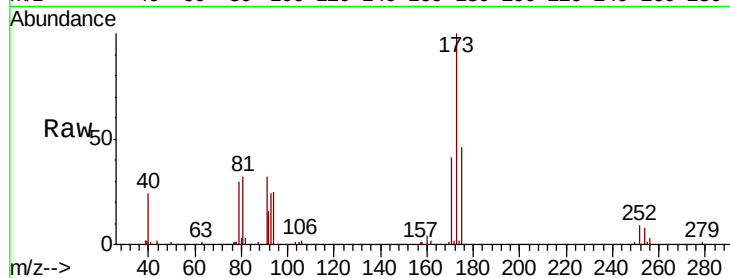
173 100

175 49.2 39.0 58.6

171 0.0 41.2 61.8#

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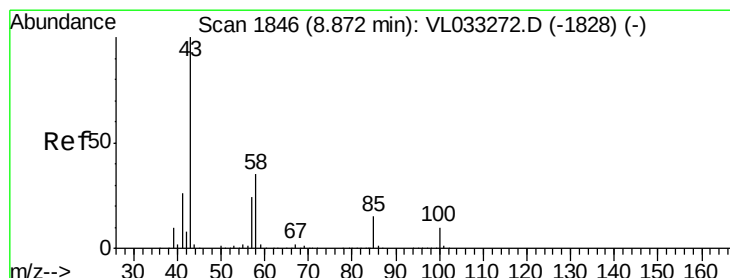
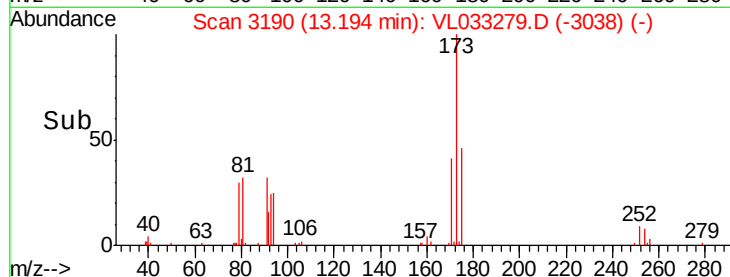
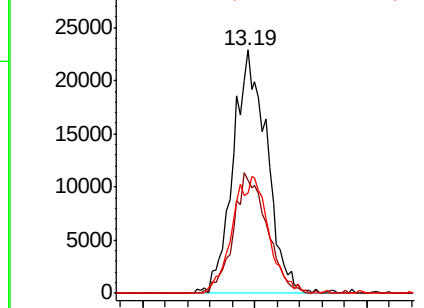
MMDadoda
3/14/2019 5:05:53 AM



Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V



#50

4-Methyl-2-Pentanone

Concen: 0.497 ppbv m

RT: 8.89 min Scan# 1850

Delta R.T. 0.01 min

Lab File: VL033279.D

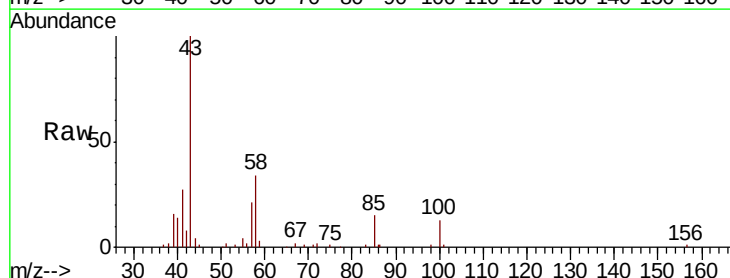
Acq: 12 Mar 2019 9:04

Tgt Ion: 43 Resp: 104107

Ion Ratio Lower Upper

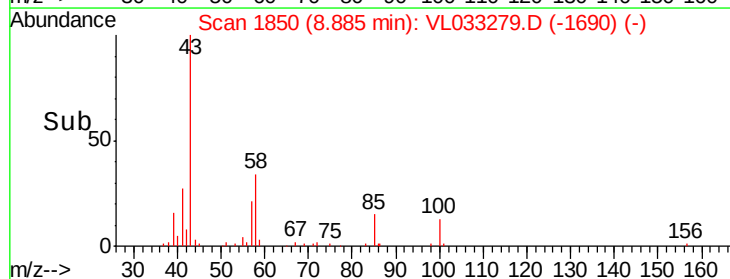
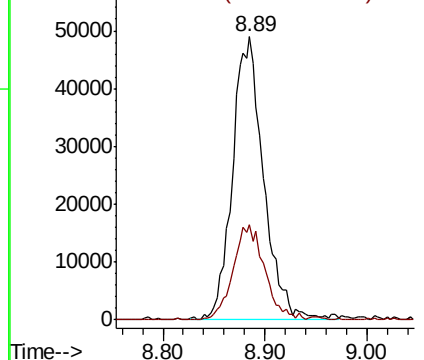
43 100

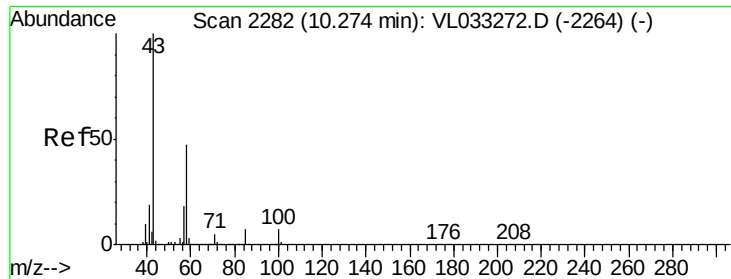
58 0.0 28.0 42.0#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





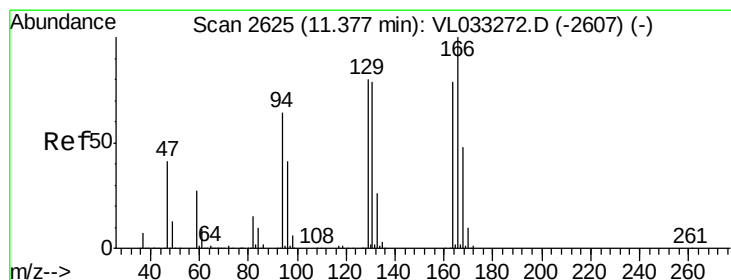
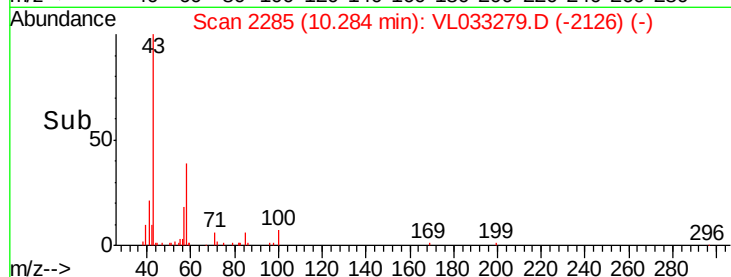
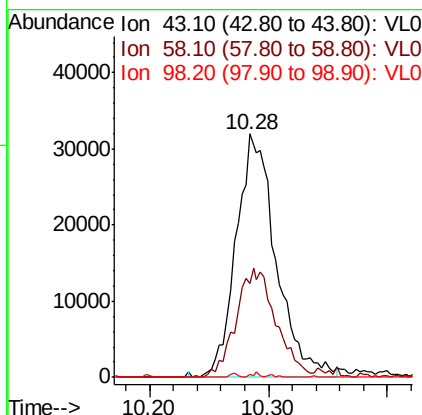
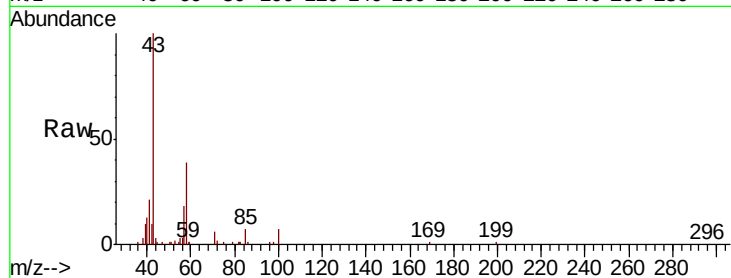
#51
2-Hexanone
Concen: 0.482 ppbv m
RT: 10.28 min Scan# 2285
Delta R.T. 0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
43	100		
58	45.2	38.1	57.1
98	0.6	0.1	0.1#

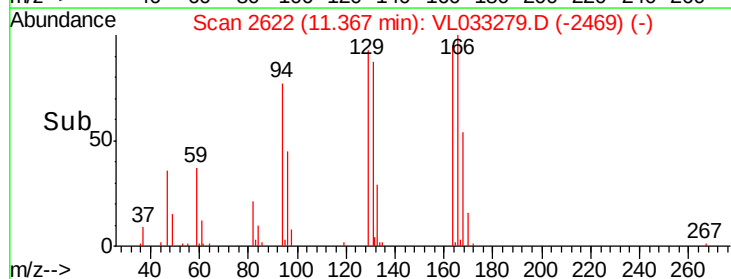
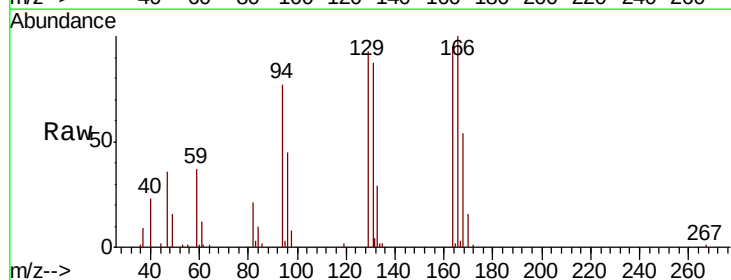
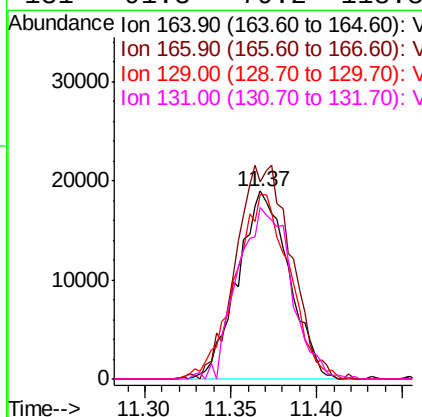
Manual Integrations
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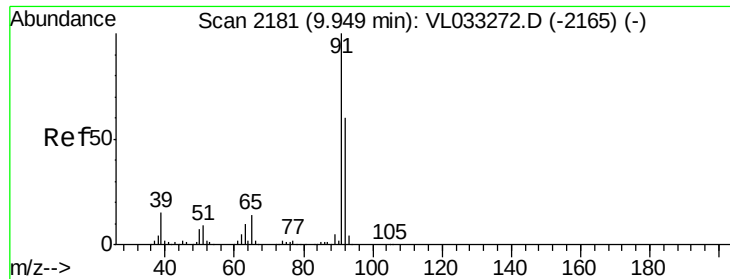
MMDadoda
3/14/2019 5:05:53 AM



#52
Tetrachloroethene
Concen: 0.523 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	105.2	100.8	151.2
129	96.6	80.6	121.0
131	91.3	79.2	118.8





#53

Toluene

Concen: 0.518 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 91 Resp: 119695

Ion Ratio Lower Upper

91 100

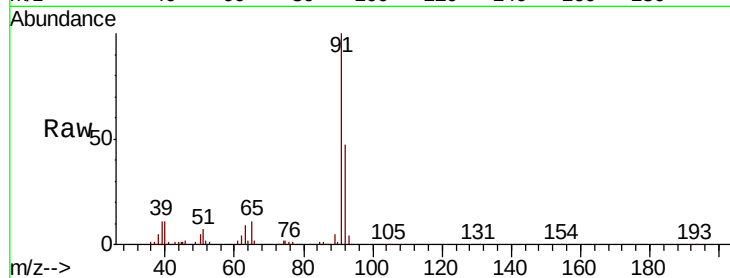
92 55.4 47.8 71.8

Manual Integrations

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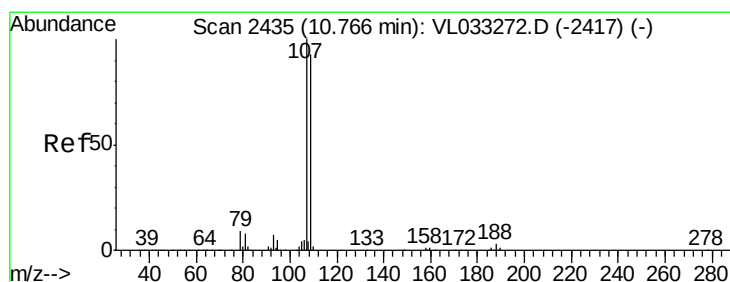
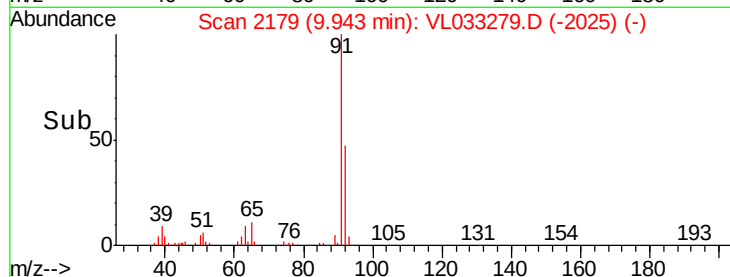
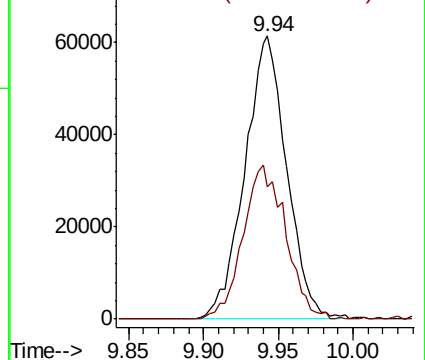
MMDadoda

3/14/2019 5:05:53 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#54

1,2-Dibromoethane

Concen: 0.495 ppbv

RT: 10.76 min Scan# 2432

Delta R.T. -0.01 min

Lab File: VL033279.D

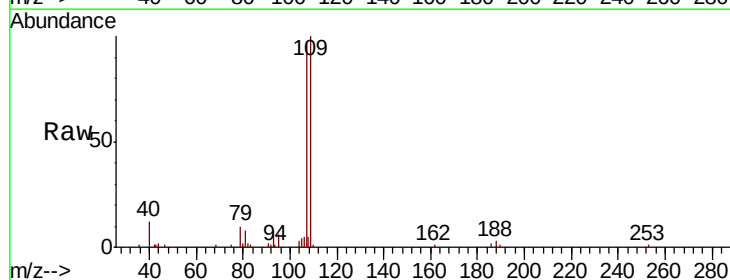
Acq: 12 Mar 2019 9:04

Tgt Ion: 107 Resp: 62486

Ion Ratio Lower Upper

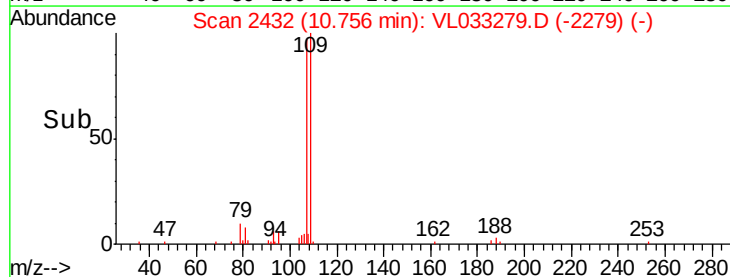
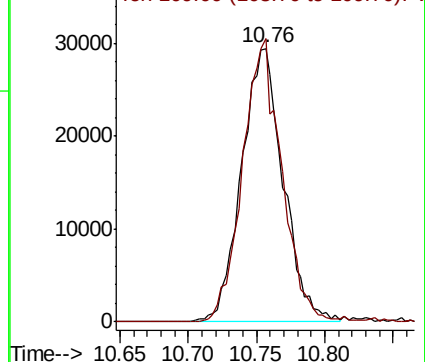
107 100

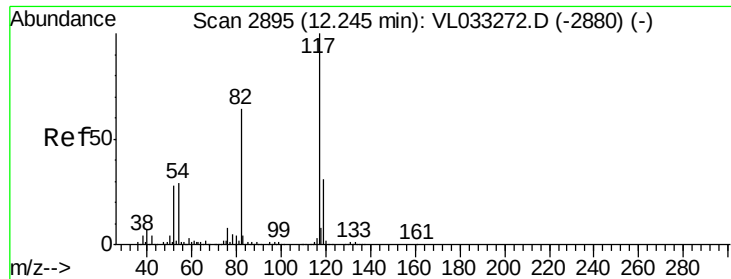
109 103.6 74.2 111.2



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





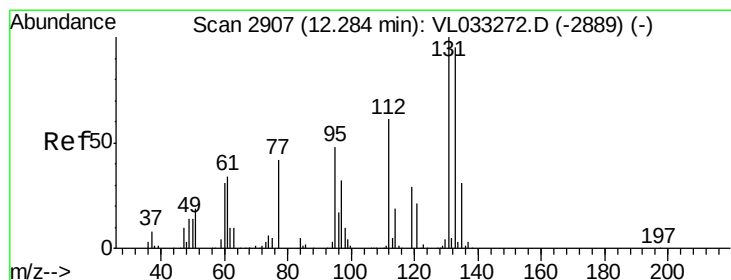
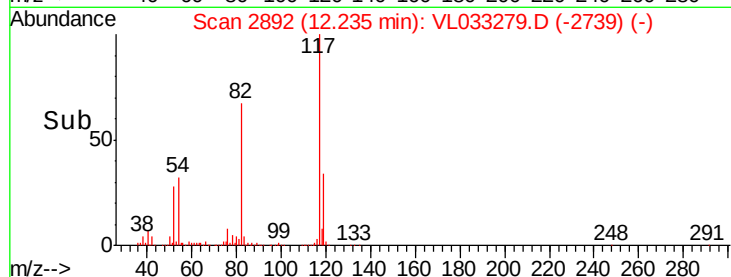
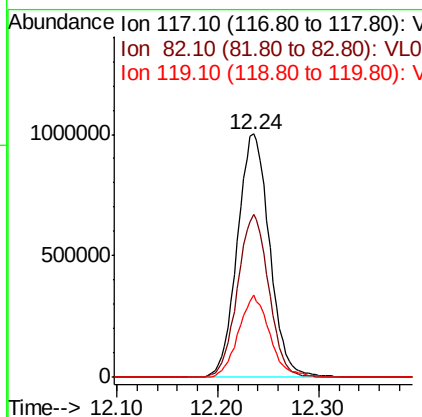
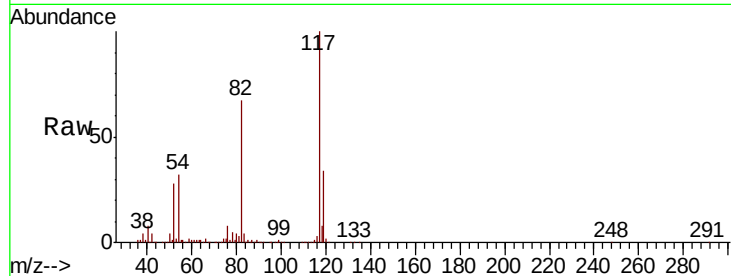
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.4	51.1	76.7
119	33.0	43.6	65.4#

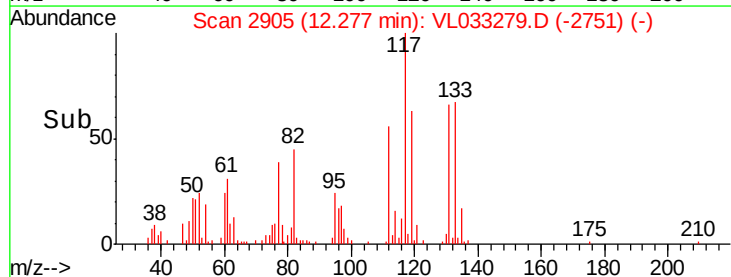
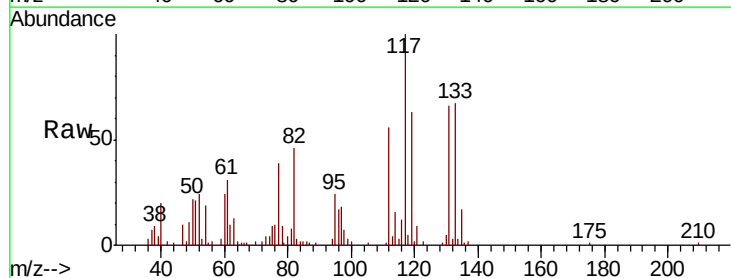
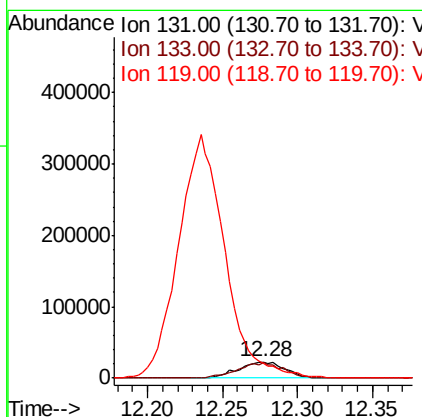
Manual Integrations
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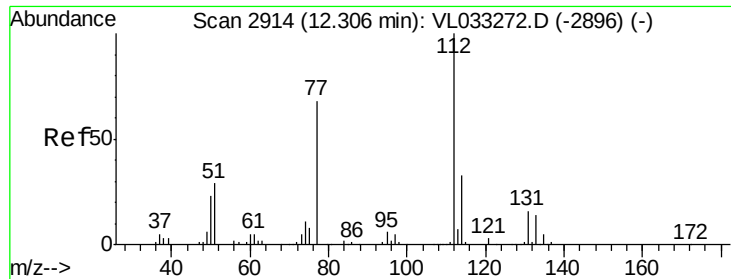
MMDadoda
3/14/2019 5:05:53 AM



#56
1,1,1,2-Tetrachloroethane
Concen: 0.524 ppbv m
RT: 12.28 min Scan# 2905
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.2	76.2	114.4
119	0.0	110.3	165.5#





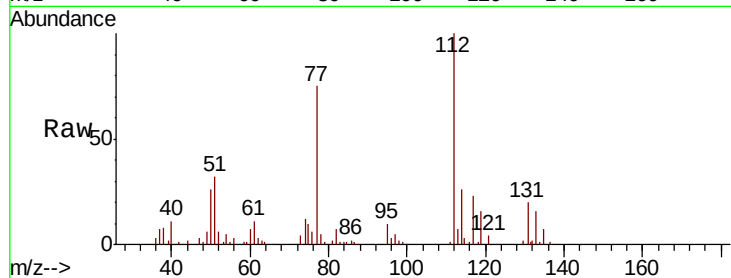
#57
Chlorobenzene
Concen: 0.543 ppbv
RT: 12.30 min Scan# 2911
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
112	100	90673		
77	71.3	55.8	83.8	
114	28.7	29.5	36.1	

Manual Integrations
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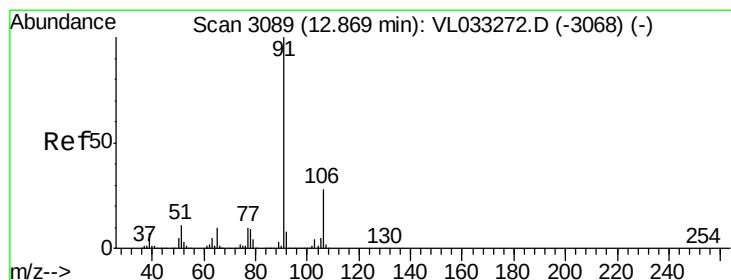
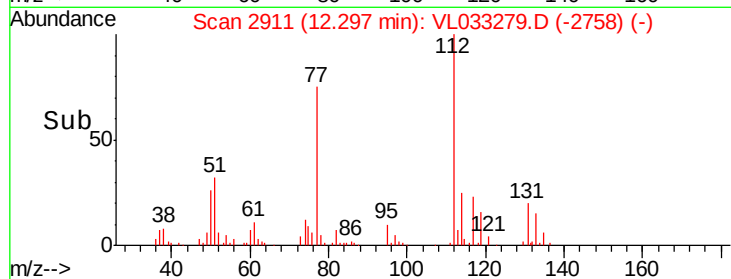
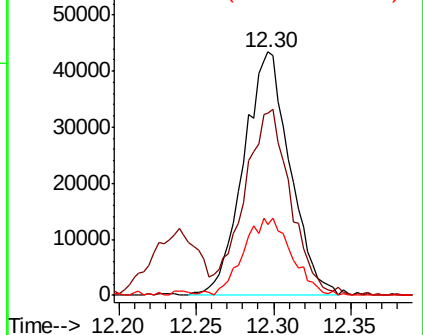


Abundance

Ion 112.10 (111.80 to 112.80): V

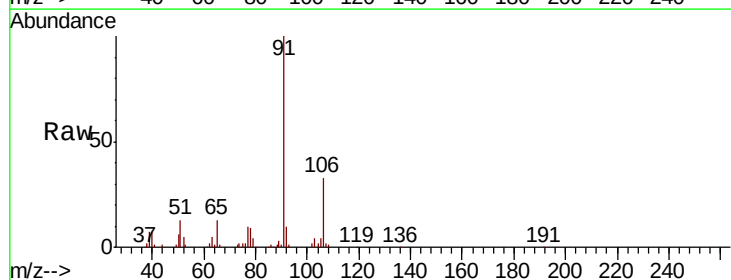
Ion 77.10 (76.80 to 77.80): VL0

Ion 114.10 (113.80 to 114.80): V



#58
Ethyl Benzene
Concen: 0.505 ppbv m
RT: 12.86 min Scan# 3087
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

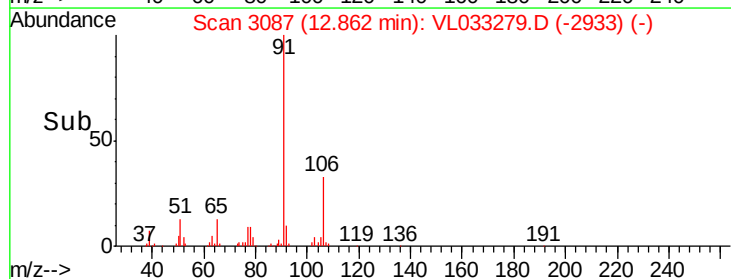
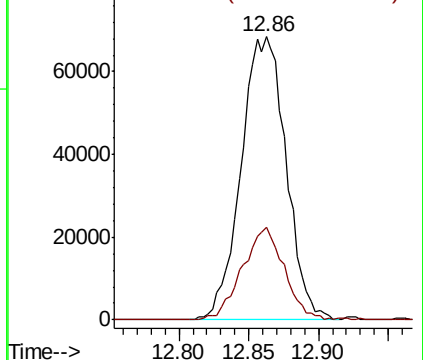
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	153060		
106	32.6	22.5	33.7	

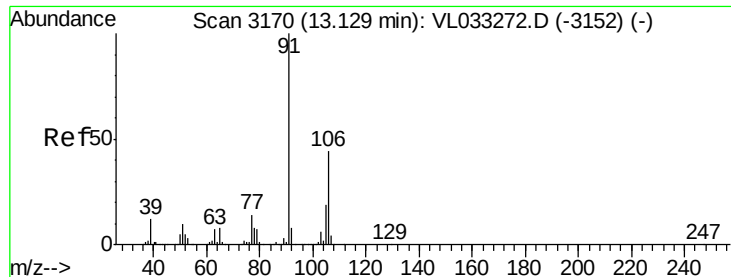


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





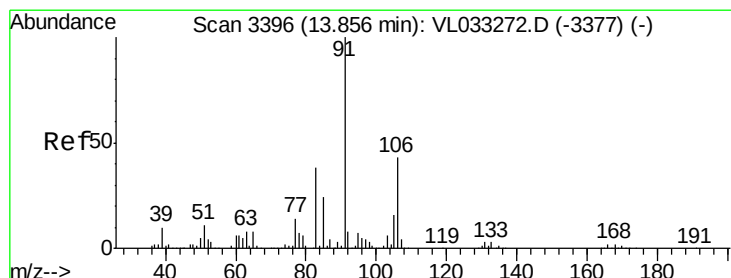
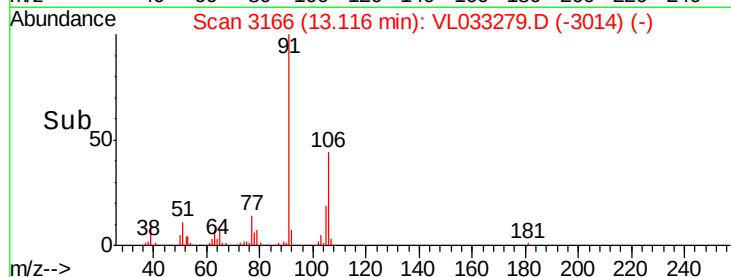
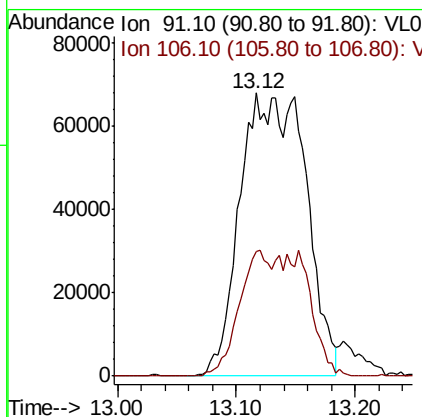
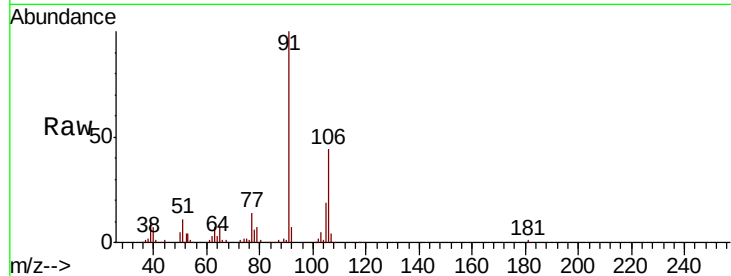
#59
m/p-Xylene
Concen: 1.028 ppbv m
RT: 13.12 min Scan# 3166
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion: 91 Resp: 261285
Ion Ratio Lower Upper
91 100
106 0.0 35.5 53.3#

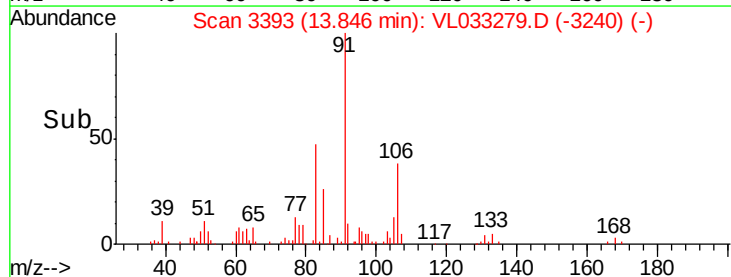
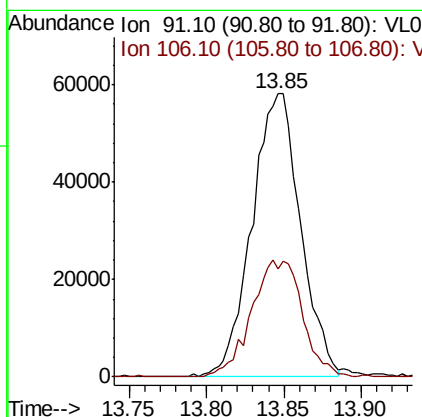
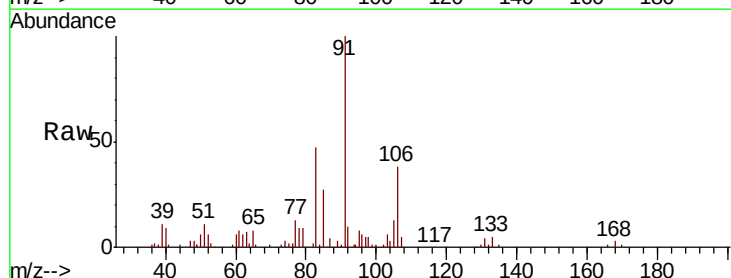
Manual Integrations
APPROVED

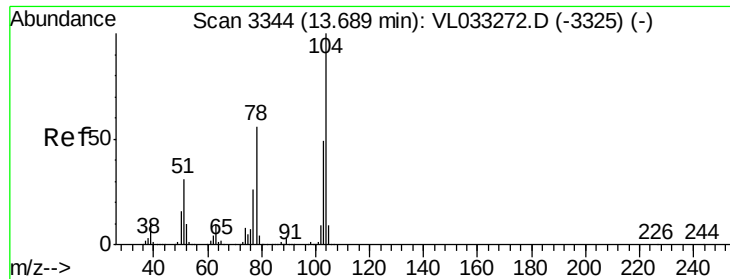
MMDadoda
3/14/2019 5:05:53 AM



#60
o-Xylene
Concen: 0.520 ppbv
RT: 13.85 min Scan# 3393
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion: 91 Resp: 127358
Ion Ratio Lower Upper
91 100
106 43.2 21.3 63.7





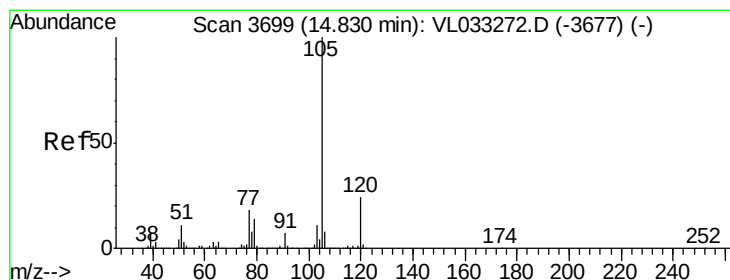
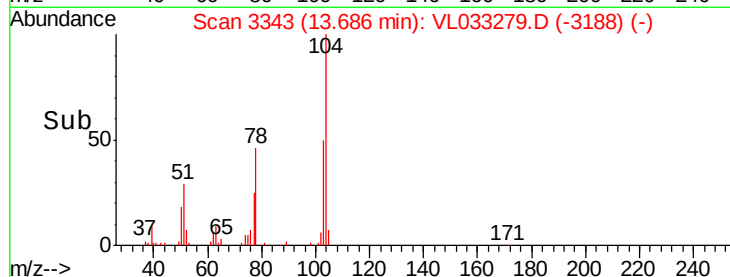
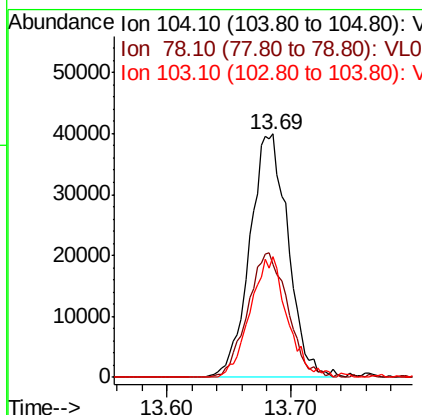
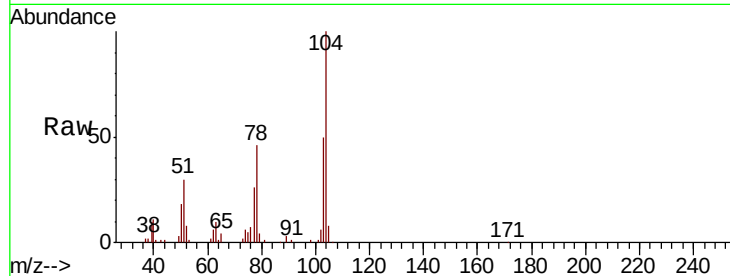
#61
Styrene
 Concen: 0.503 ppbv m
 RT: 13.69 min Scan# 3343
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampled :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
104	100		
78	0.0	43.3	64.9#
103	0.0	38.0	57.0#

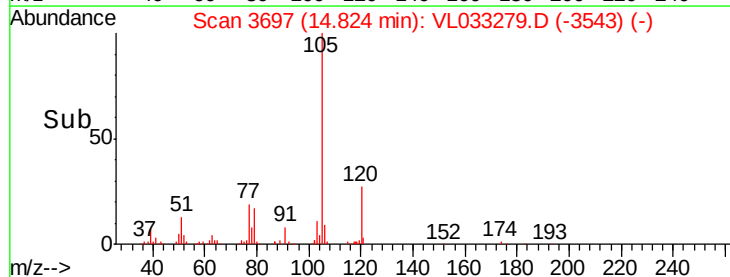
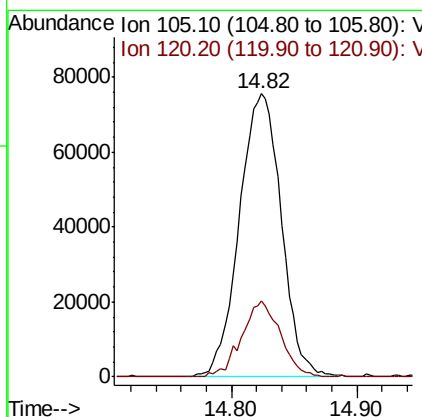
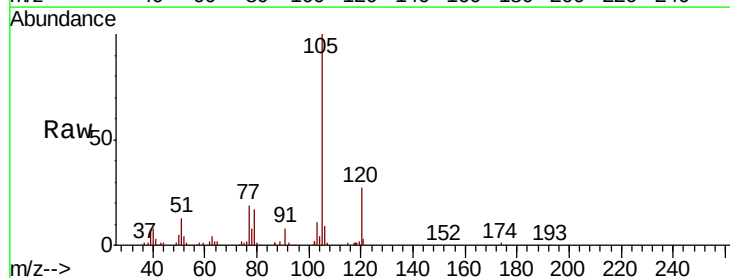
Manual Integrations
 APPROVED

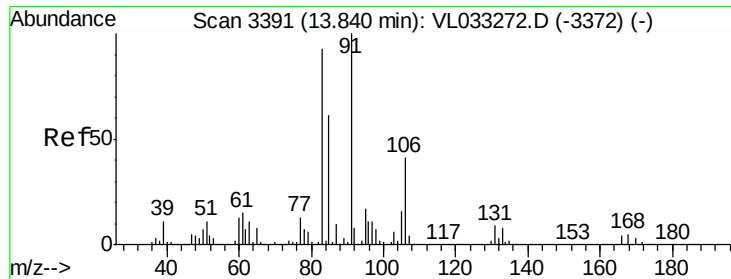
MMDadoda
 3/14/2019 5:05:53 AM



#62
Isopropylbenzene
 Concen: 0.516 ppbv
 RT: 14.82 min Scan# 3697
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	24.9	20.0	30.0





#63

1,1,2,2-Tetrachloroethane

Concen: 0.549 ppbv m

RT: 13.83 min Scan# 3389

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

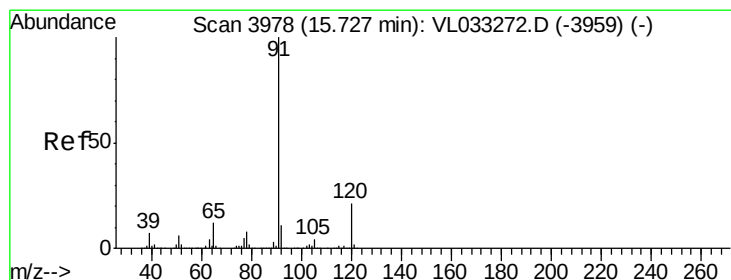
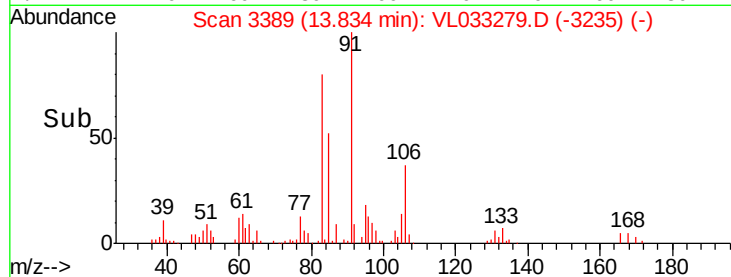
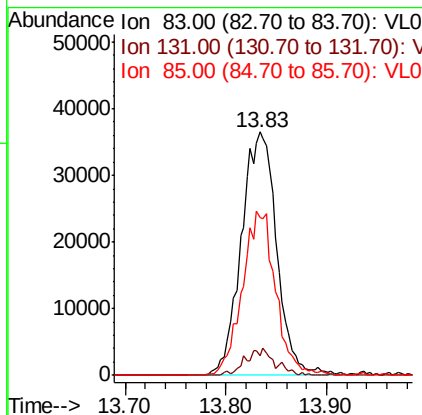
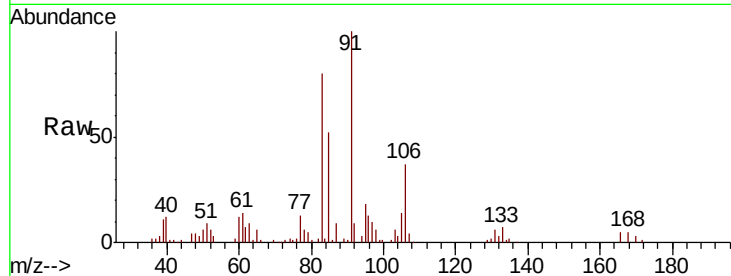
ClientSampleId :

VSTDIC0.5

Tgt Ion:	83	Resp:	89358
Ion Ratio	Lower	Upper	
83	100		
131	9.2	4.5	13.7
85	63.4	32.2	96.6

Manual Integrations
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3/14/2019 5:05:53 AM



#64

n-propylbenzene

Concen: 0.528 ppbv m

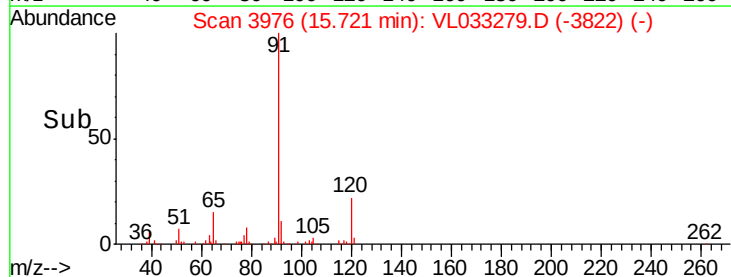
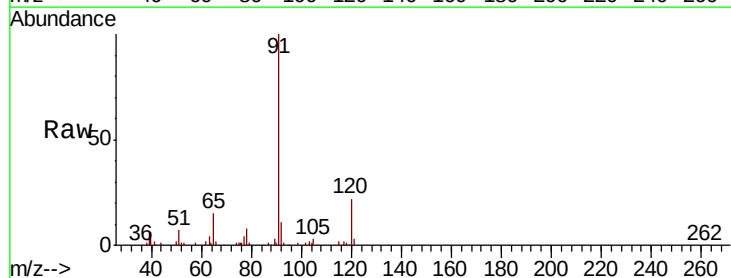
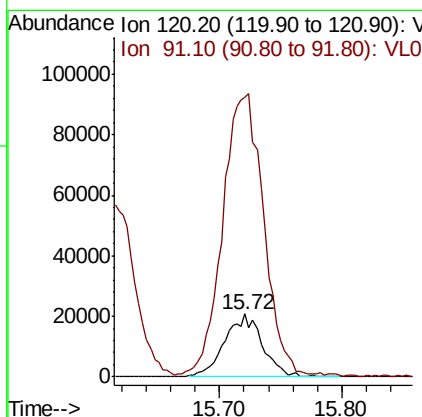
RT: 15.72 min Scan# 3976

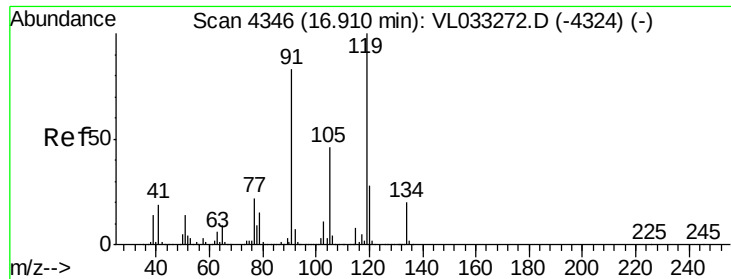
Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Tgt Ion:	120	Resp:	43645
Ion Ratio	Lower	Upper	
120	100		
91	0.0	385.8	578.8#





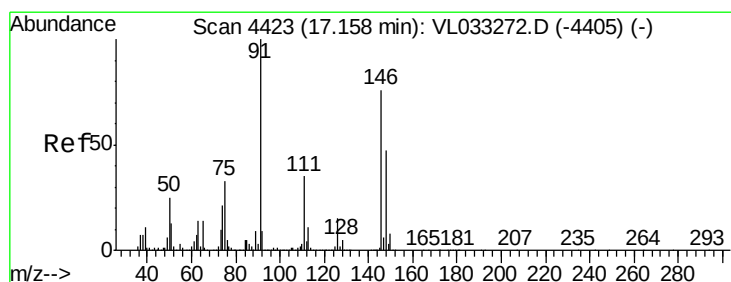
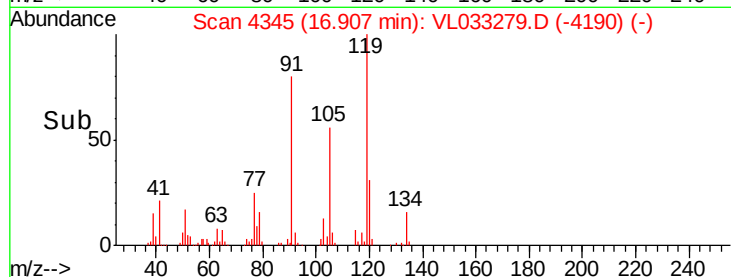
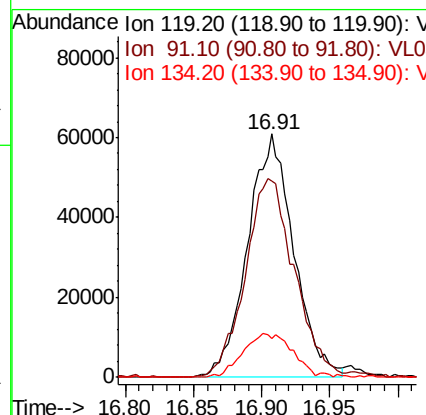
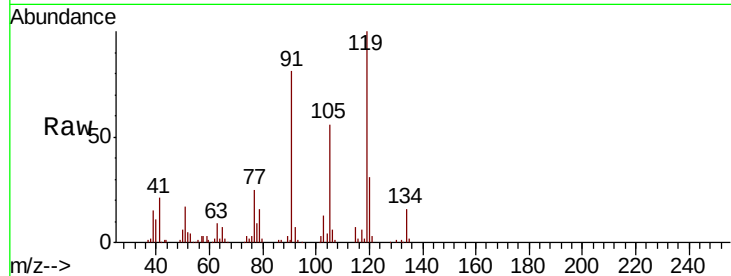
#65
 tert-Butylbenzene
 Concen: 0.496 ppbv
 RT: 16.91 min Scan# 4345
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	142690		
91	88.0	67.3	100.9	
134	20.0	15.4	23.2	

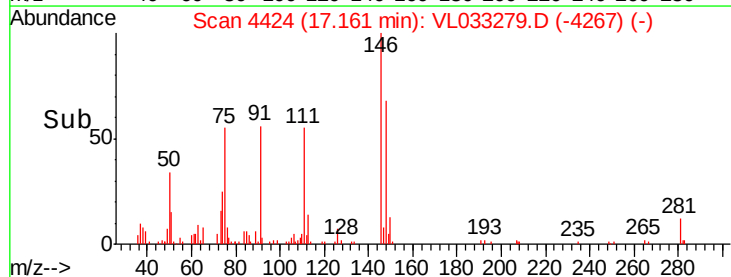
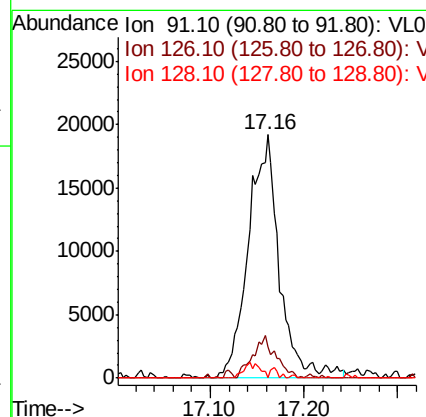
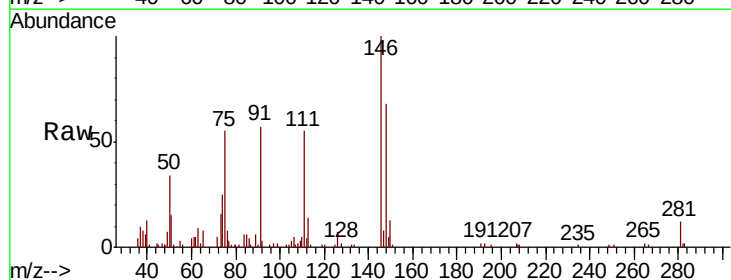
Manual Integrations
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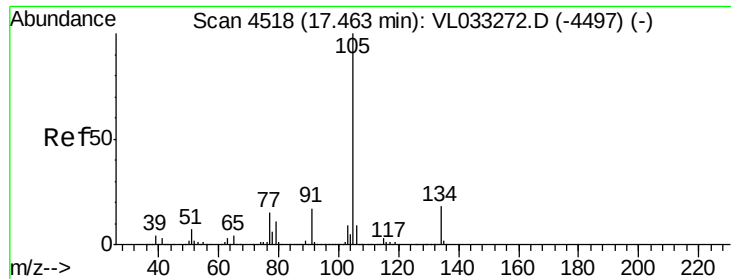
MMDadoda
 3/14/2019 5:05:53 AM



#66
 Benzyl Chloride
 Concen: 0.404 ppbv m
 RT: 17.16 min Scan# 4424
 Delta R.T. 0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	44127		
126	0.0	13.0	19.6#	
128	4.3	4.3	6.5#	





#67

sec-Butylbenzene

Concen: 0.502 ppbv

RT: 17.45 min Scan# 4515

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 105 Resp: 204762

Ion Ratio Lower Upper

105 100

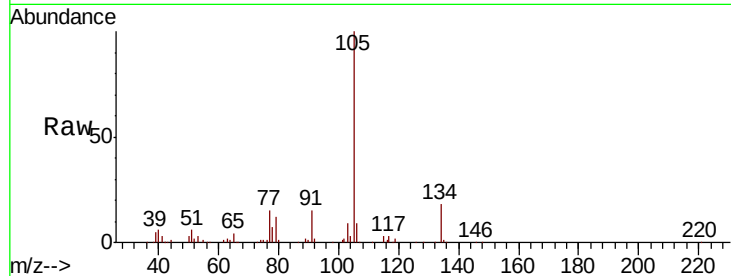
134 17.9 14.2 21.2

Manual Integrations

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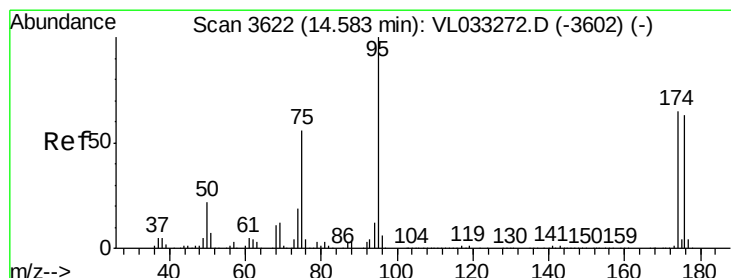
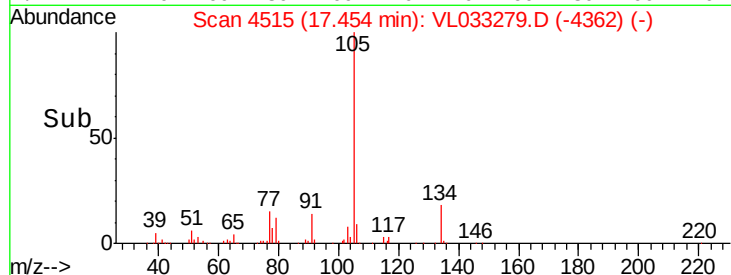
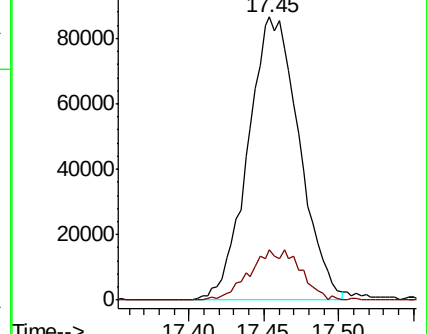
MMDadoda

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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: 9.995 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

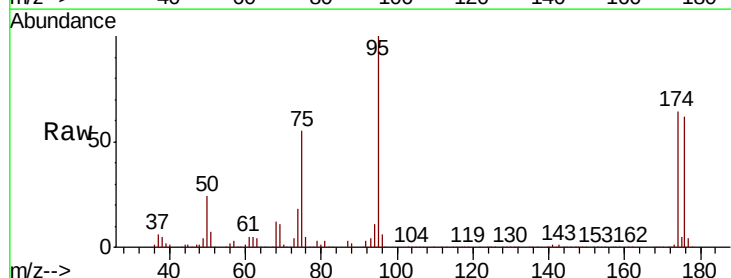
Tgt Ion: 95 Resp: 1714709

Ion Ratio Lower Upper

95 100

174 64.9 51.7 77.5

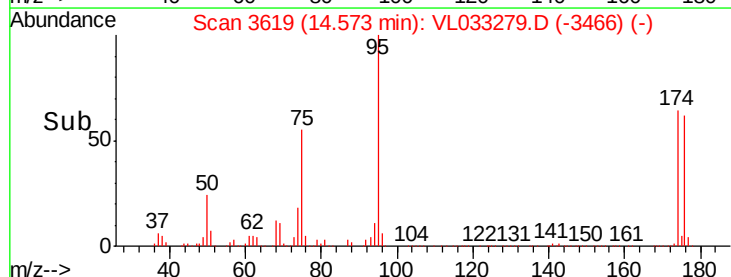
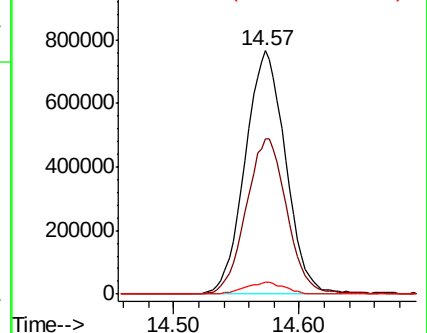
175 4.8 3.7 5.5

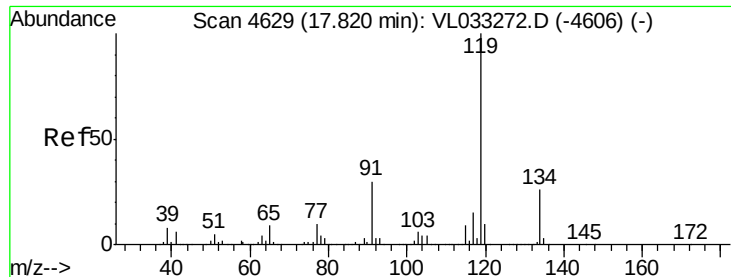


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





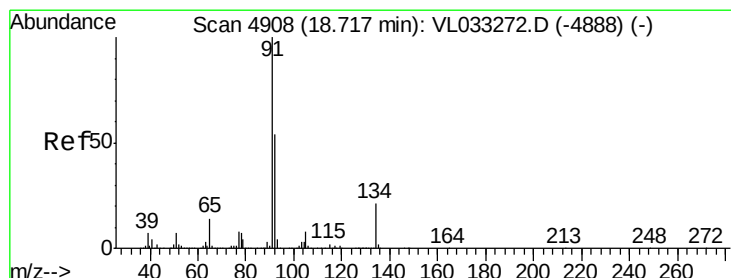
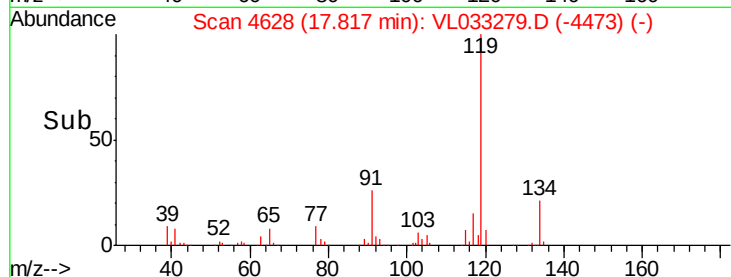
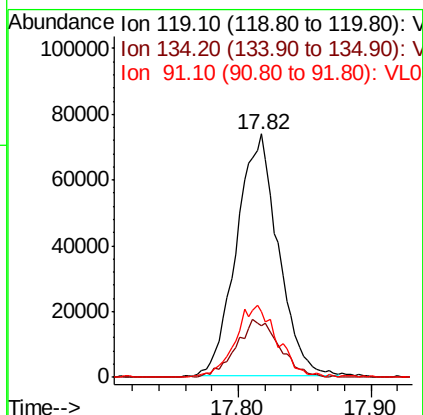
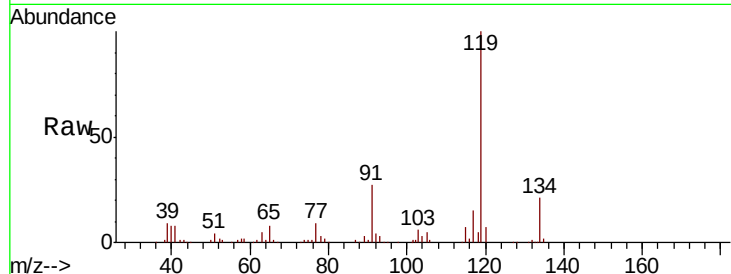
#69
p-Isopropyltoluene
Concen: 0.492 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.00 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
119	100		
134	24.9	19.7	29.5
91	30.0	23.5	35.3

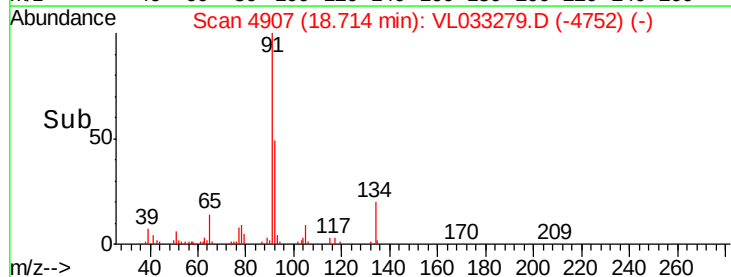
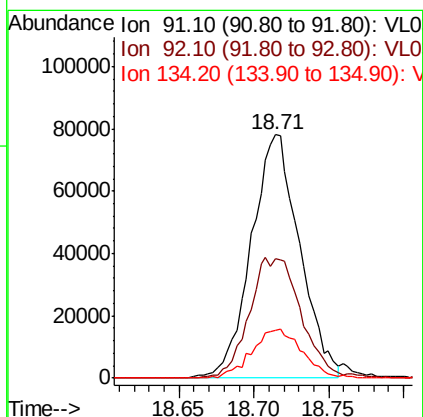
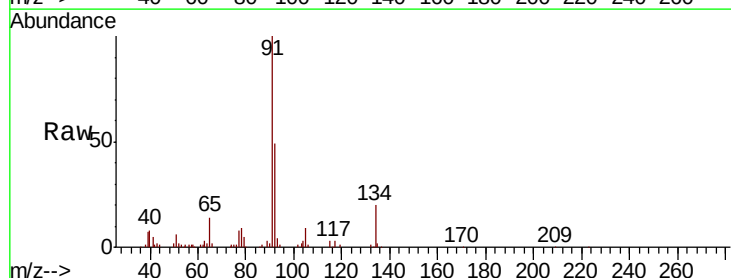
Manual Integrations
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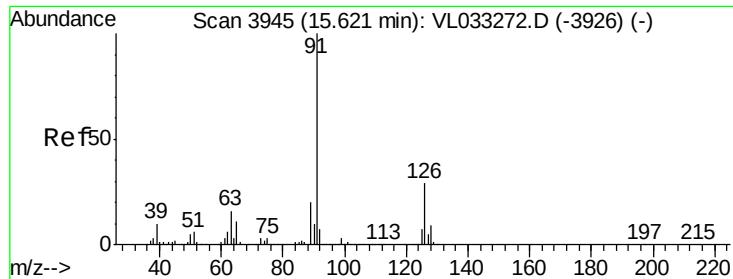
MMDadoda
3/14/2019 5:05:53 AM



#70
n-Butylbenzene
Concen: 0.499 ppbv
RT: 18.71 min Scan# 4907
Delta R.T. -0.00 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.7	42.4	63.6
134	20.9	17.1	25.7





#71

2-Chlorotoluene

Concen: 0.527 ppbv

RT: 15.61 min Scan# 3942

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 91 Resp: 134250

Ion Ratio Lower Upper

91 100

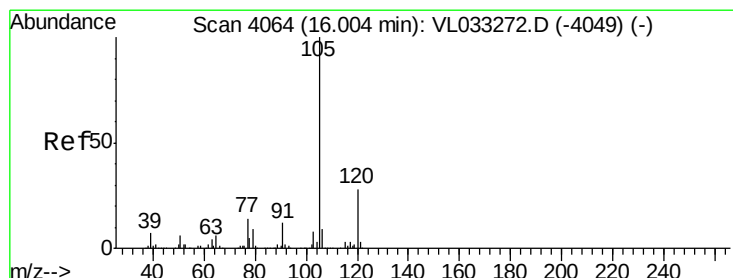
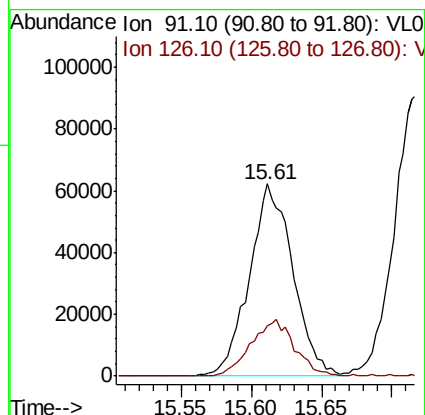
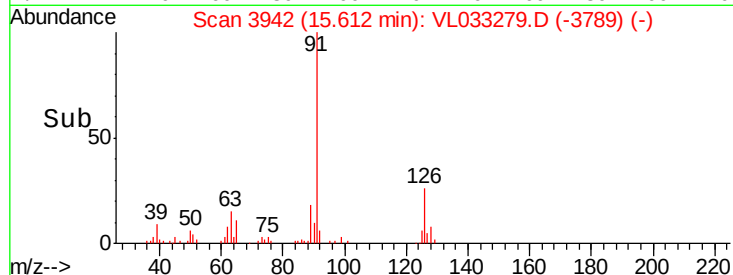
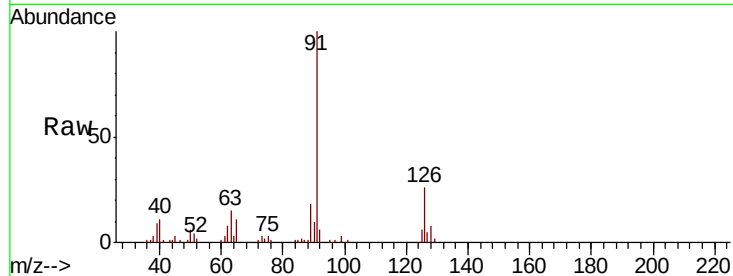
126 29.5 11.7 46.7

Manual Integrations

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#72

4-Ethyltoluene

Concen: 0.484 ppbv

RT: 16.00 min Scan# 4062

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Tgt Ion: 105 Resp: 127312

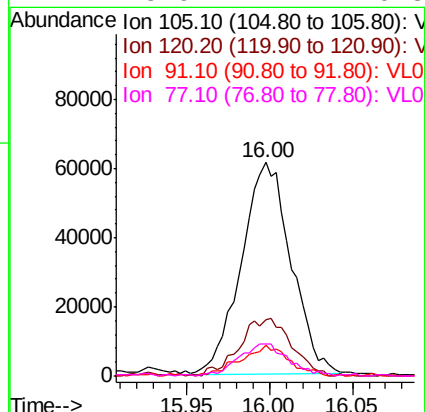
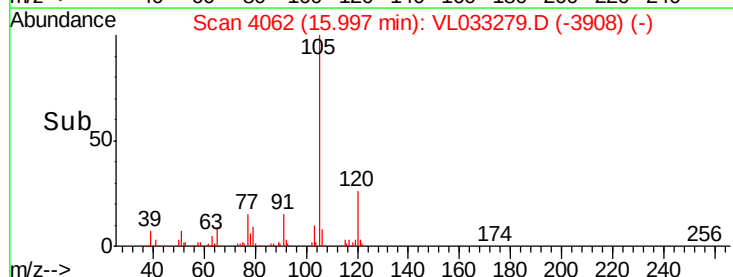
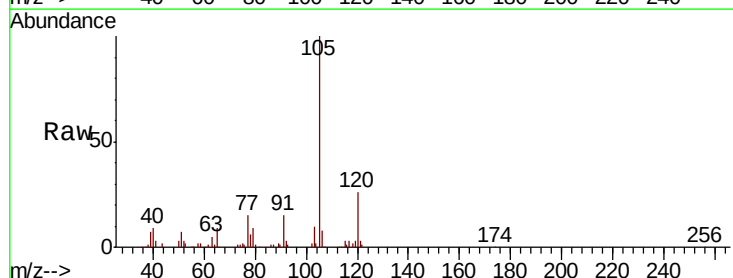
Ion Ratio Lower Upper

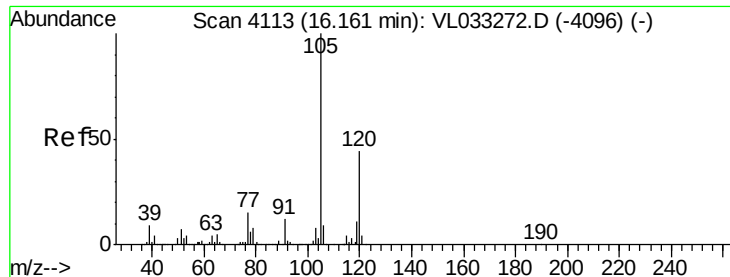
105 100

120 29.0 22.9 34.3

91 13.4 10.2 15.2

77 15.9 11.2 16.8





#73

1,3,5-Trimethylbenzene

Concen: 0.508 ppbv

RT: 16.15 min Scan# 4110

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tgt Ion:105 Resp: 125118

Ion Ratio Lower Upper

105 100

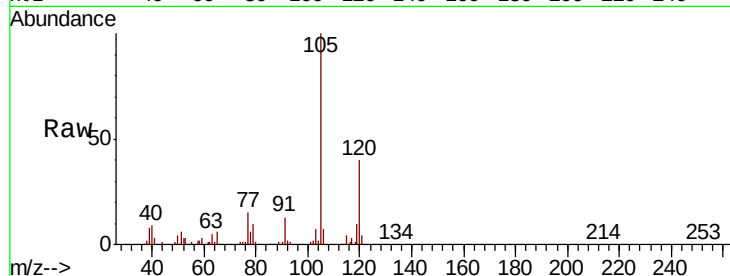
120 40.0 35.1 52.7

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

16.15

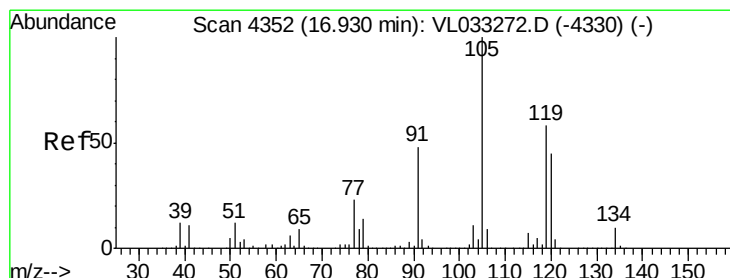
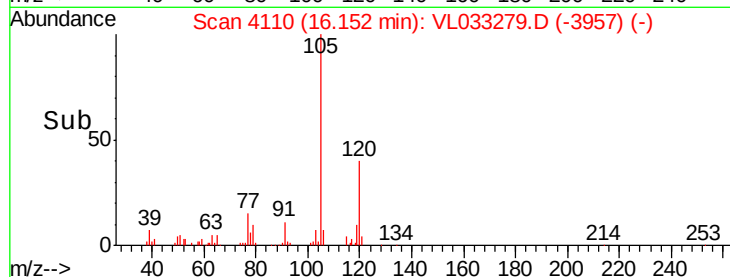
60000

40000

20000

0

Time-->



#74

1,2,4-Trimethylbenzene

Concen: 0.482 ppbv

RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL033279.D

Acq: 12 Mar 2019 9:04

Tgt Ion:105 Resp: 122695

Ion Ratio Lower Upper

105 100

120 51.6 36.1 54.1

91 49.3 38.6 58.0

77 20.2 18.2 27.4

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

80000

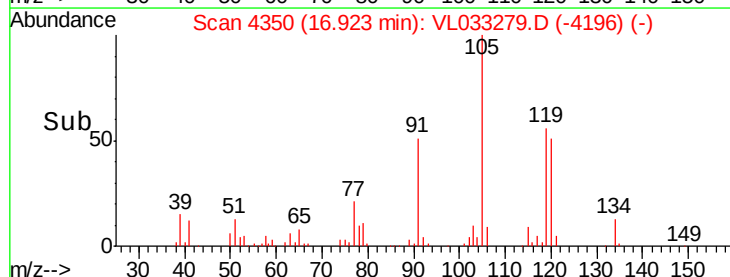
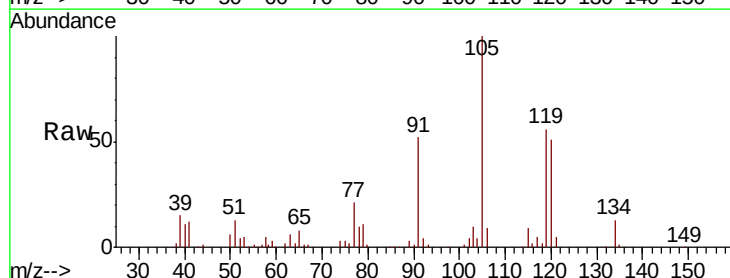
60000

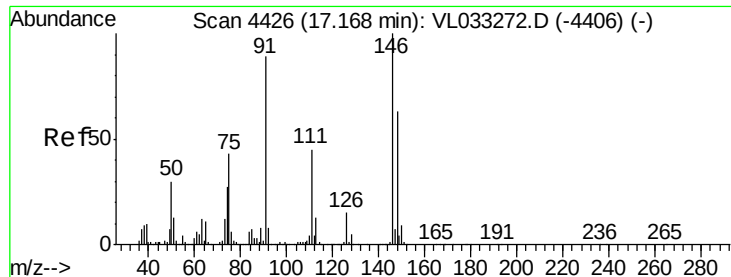
40000

20000

0

Time-->





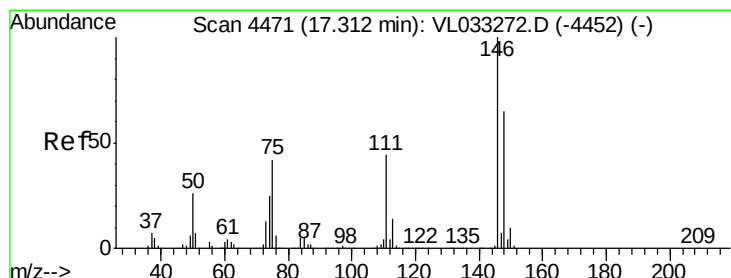
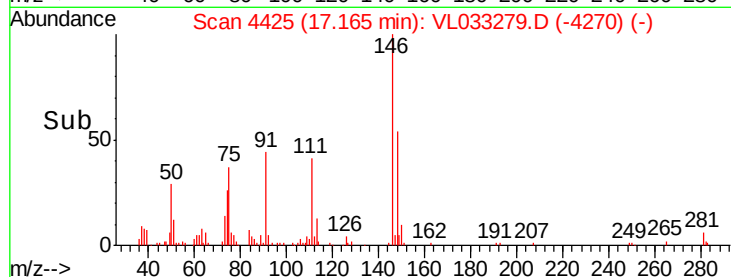
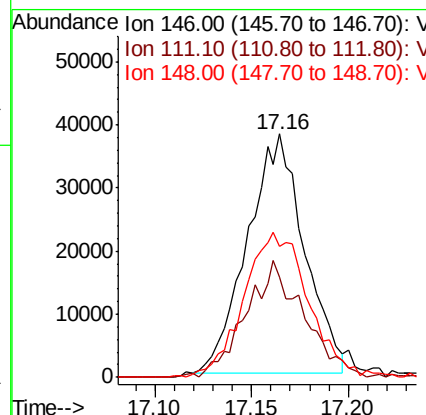
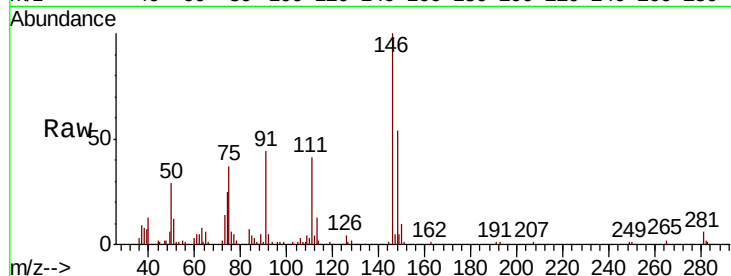
#75
 1,3-Dichlorobenzene
 Concen: 0.512 ppbv
 RT: 17.16 min Scan# 4425
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.2	22.8	68.4
148	69.3	31.8	95.3

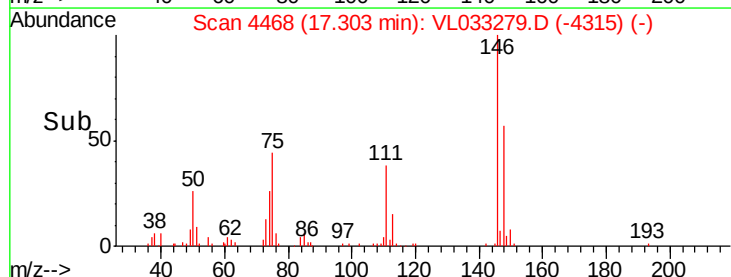
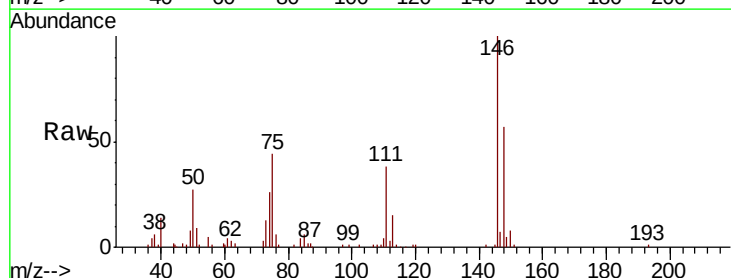
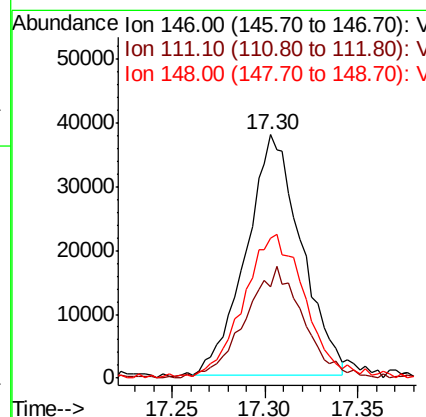
Manual Integrations
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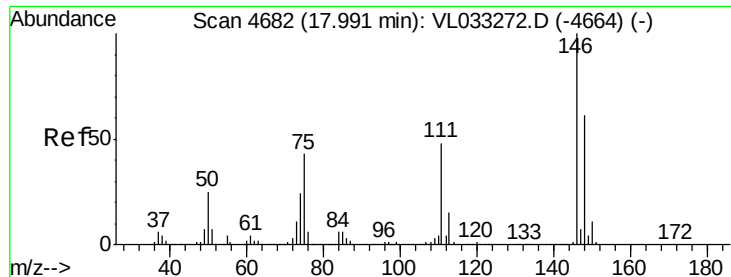
MMDadoda
 3/14/2019 5:05:53 AM



#76
 1,4-Dichlorobenzene
 Concen: 0.526 ppbv
 RT: 17.30 min Scan# 4468
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Lower	Upper
146	100		
111	48.9	22.1	66.1
148	68.0	31.8	95.3





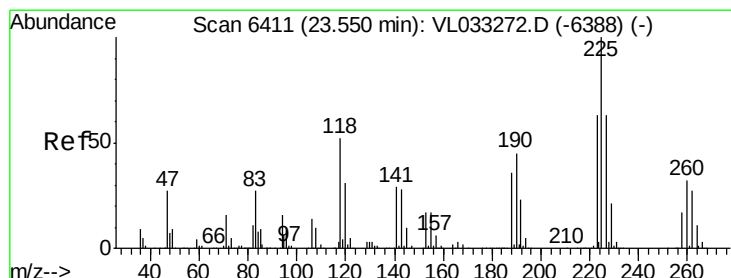
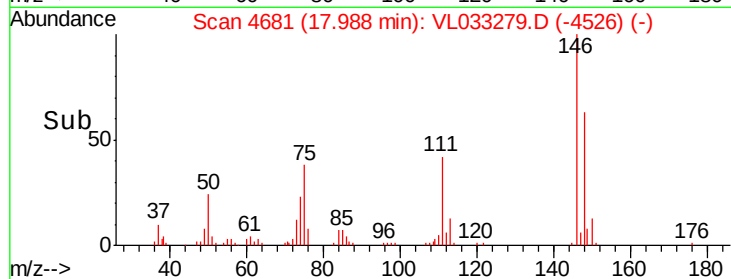
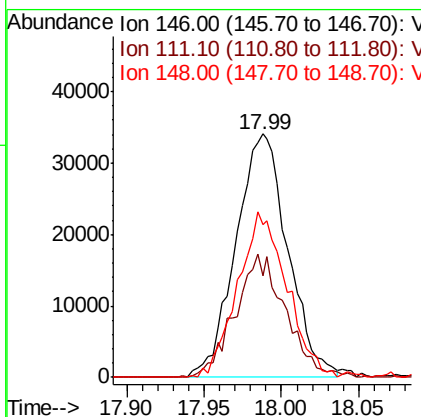
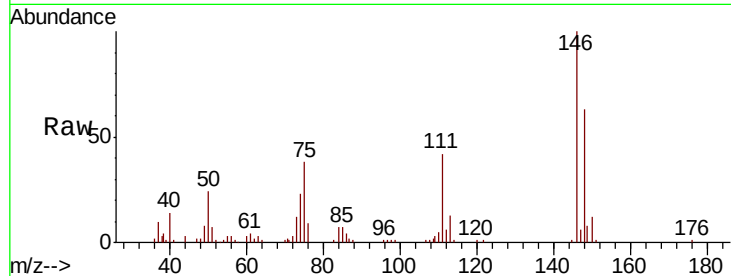
#77
 1,2-Dichlorobenzene
 Concen: 0.534 ppbv
 RT: 17.99 min Scan# 4681
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	79617		
111	49.0	23.5	70.5	
148	65.2	31.7	95.1	

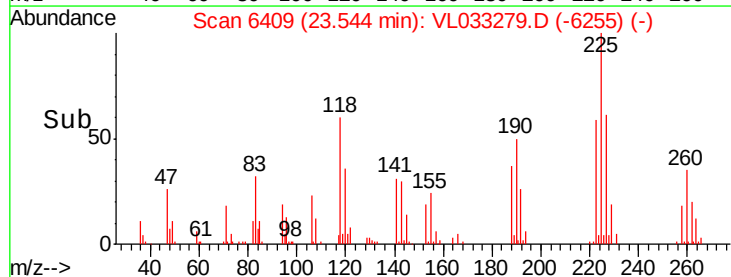
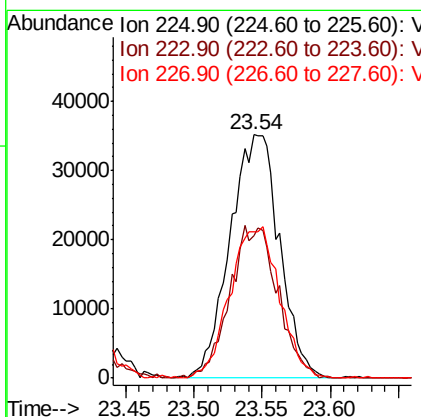
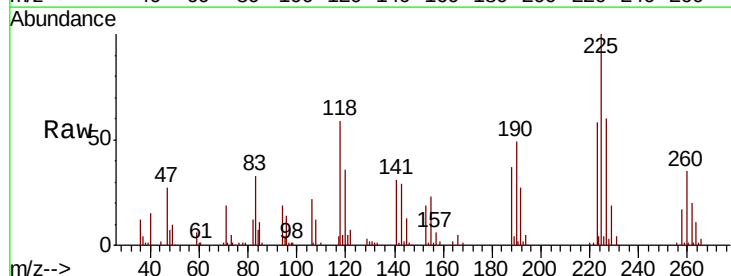
Manual Integrations
 APPROVED

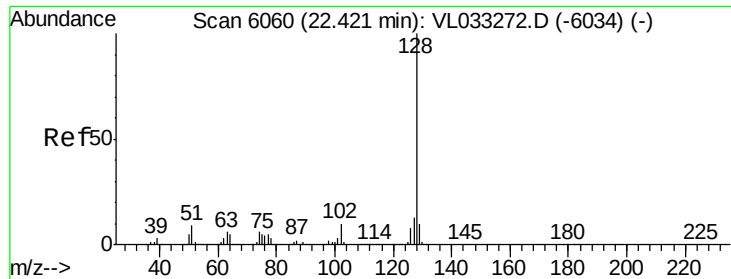
MMDadoda
 3/14/2019 5:05:53 AM



#78
 Hexachloro-1,3-Butadiene
 Concen: 0.772 ppbv
 RT: 23.54 min Scan# 6409
 Delta R.T. -0.01 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	88984		
223	60.0	50.3	75.5	
227	62.2	51.1	76.7	





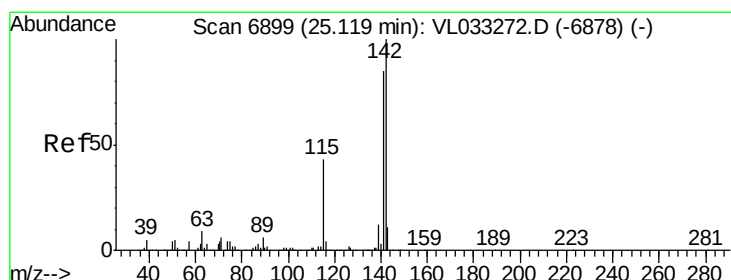
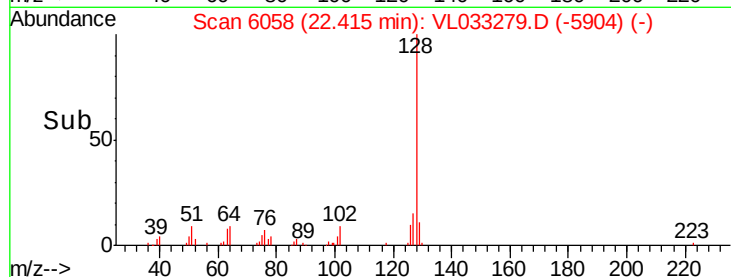
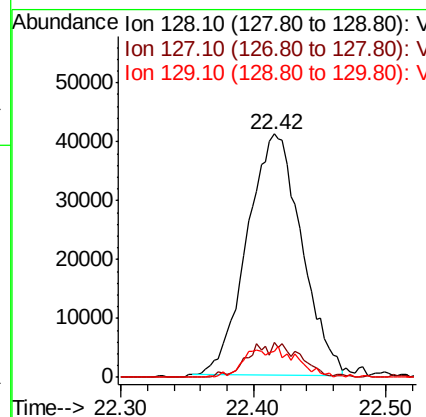
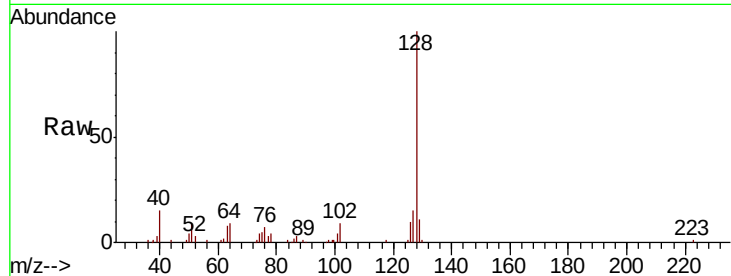
#79
Naphthalene
Concen: 0.449 ppbv
RT: 22.42 min Scan# 6058
Delta R.T. -0.01 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	116511		
127	13.7	10.5	15.7	
129	12.4	8.4	12.6	

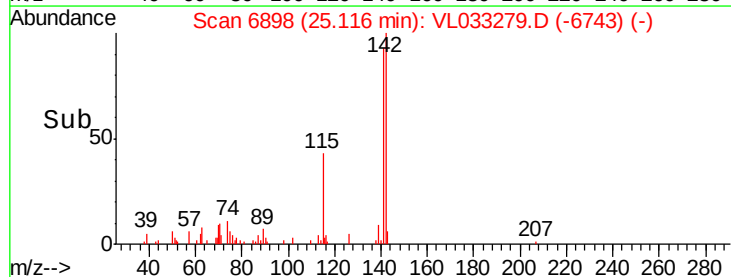
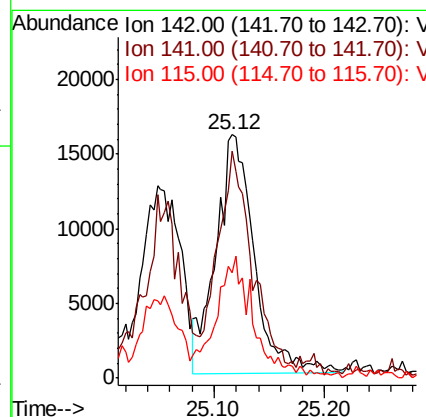
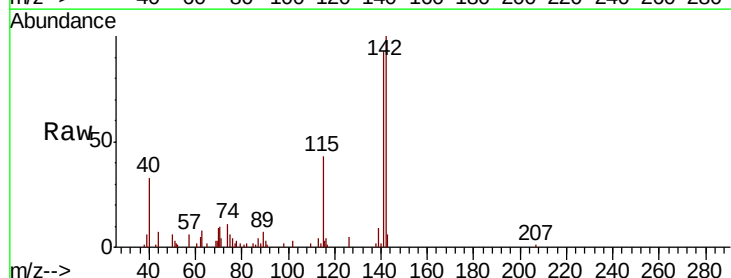
Manual Integrations
APPROVED

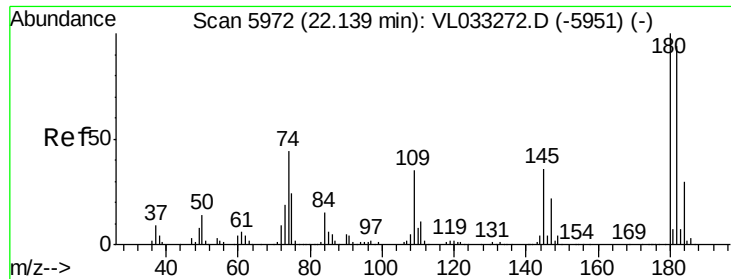
MMDadoda
3/14/2019 5:05:53 AM



#80
Naphthalene, 2-methyl-
Concen: 0.644 ppbv
RT: 25.12 min Scan# 6898
Delta R.T. -0.00 min
Lab File: VL033279.D
Acq: 12 Mar 2019 9:04

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	38872		
141	96.0	68.0	102.0	
115	50.4	33.8	50.6	





#81
 1,2,4-Trichlorobenzene
 Concen: 0.513 ppbv
 RT: 22.14 min Scan# 5971
 Delta R.T. -0.00 min
 Lab File: VL033279.D
 Acq: 12 Mar 2019 9:04

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.5	76.6	114.8
184	31.1	24.2	36.4

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 5:05:53 AM

