

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101818\
 Data File : VL032656.D
 Acq On : 18 Oct 2018 18:02
 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
 10/24/2018 12:04:35 PM

Quant Time: Oct 19 01:23:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 11:41:40 2018
 QLast Update : Thu Oct 18 11:41:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.78	49	1711194	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.31	114	4097222	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.26	117	3926748	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2957475	10.00	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.00%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.08	85	124367	0.737 ppbv	97
3) Chlorodifluoromethane	3.03	51	71012	0.496 ppbv	99
4) Chloromethane	3.18	50	39019	0.499 ppbv	92
5) Vinyl Chloride	3.31	62	38508	0.489 ppbv	95
6) Bromomethane	3.53	94	25622	0.515 ppbv	91
7) Chloroethane	3.61	64	14265	0.463 ppbv	89
8) Dichlorotetrafluoroethane	3.23	85	99555	0.516 ppbv	92
9) Propene	3.05	41	27096	0.516 ppbv	94
10) Heptane	8.26	43	96635m	0.492 ppbv	
11) Trichlorofluoromethane	4.02	101	127990	0.582 ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.56	101	94890	0.590 ppbv	96
13) Ethanol	3.68	45	8505m	0.524 ppbv	
14) Bromoethene	3.80	108	33652	0.571 ppbv	97
15) Acetone	3.93	43	90477	0.594 ppbv	98
16) 1,3-Butadiene	3.38	39	29178	0.517 ppbv	83
17) tert-Butyl alcohol	4.40	59	17722m	1.275 ppbv	
18) 1,1-Dichloroethene	4.37	96	40913	0.564 ppbv	98
19) Isopropyl Alcohol	4.06	45	58451	0.544 ppbv #	93
20) Methylene Chloride	4.42	84	41873	0.614 ppbv	90
21) Allyl Chloride	4.49	41	59024	0.516 ppbv	97
22) trans-1,2-Dichloroethene	4.98	96	45559	0.543 ppbv	87
23) Vinyl Acetate	5.17	43	124489	0.514 ppbv #	95
24) 1,1-Dichloroethane	5.10	63	112057	0.499 ppbv	99
25) Ethyl Acetate	5.79	43	191892	0.533 ppbv	99
26) Hexane	5.80	57	88444	0.545 ppbv	95
27) Carbon Disulfide	4.64	76	99349	0.507 ppbv #	88
28) Methyl tert-Butyl Ether	5.14	73	104718	0.513 ppbv	100
29) Chloroform	5.86	83	140880	0.495 ppbv	97
30) Cyclohexane	7.26	84	59733	0.467 ppbv	93
31) cis-1,2-Dichloroethene	5.65	61	68959	0.442 ppbv	92
32) 1,1,1-Trichloroethane	6.63	97	142075	0.501 ppbv	98
34) 2-Butanone	5.36	43	104455	0.459 ppbv	99
35) Carbon Tetrachloride	7.15	117	144207	0.454 ppbv	97
36) Benzene	7.02	78	161716	0.487 ppbv	97
37) 1,2-Dichloroethane	6.43	62	105465	0.463 ppbv	99
38) Trichloroethene	7.98	130	63273	0.507 ppbv	94
39) 1,2-Dichloropropane	7.76	63	65709m	0.486 ppbv	
40) 1,4-Dioxane	8.02	88	21258m	0.455 ppbv	
41) Tetrahydrofuran	6.19	42	53874	0.447 ppbv	94
42) Bromodichloromethane	7.93	83	149736	0.482 ppbv	94
43) Methyl Methacrylate	8.16	69	51397	0.399 ppbv	94

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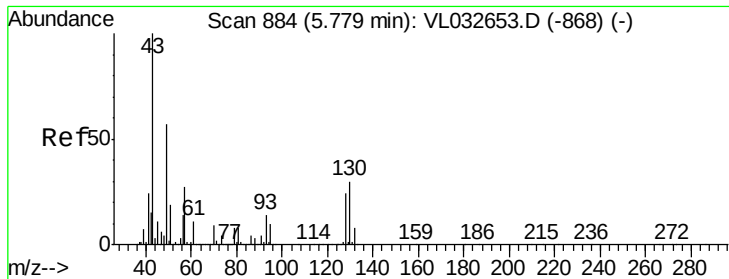
Manual Integrations
 APPROVED

MMDadoda
 10/24/2018 12:04:35 PM

Quant Time: Oct 19 01:23:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL101818AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 18 18:02:00 2018
 QLast Update : Thu Oct 18 11:41:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.01	57	270645	0.460	ppbv	93
45) t-1,3-Dichloropropene	9.43	75	58614	0.348	ppbv	93
46) cis-1,3-Dichloropropene	8.85	75	75708m	0.395	ppbv	
47) 1,1,2-Trichloroethane	9.63	97	78001	0.483	ppbv	91
48) Dibromochloromethane	10.46	129	120504	0.439	ppbv	97
49) Bromoform	13.22	173	94030m	0.454	ppbv	
50) 4-Methyl-2-Pentanone	8.91	43	151309	0.452	ppbv	96
51) 2-Hexanone	10.32	43	88800m	0.337	ppbv	
52) Tetrachloroethene	11.40	164	59168m	0.541	ppbv	
53) Toluene	9.97	91	153636m	0.406	ppbv	
54) 1,2-Dibromoethane	10.78	107	95233m	0.412	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.30	131	93535	0.519	ppbv #	1
57) Chlorobenzene	12.32	112	155576	0.521	ppbv	93
58) Ethyl Benzene	12.88	91	189980m	0.431	ppbv	
59) m/p-Xylene	13.17	91	377368m	0.959	ppbv	
60) o-Xylene	13.86	91	182108	0.464	ppbv	99
61) Styrene	13.70	104	92178m	0.388	ppbv	
62) Isopropylbenzene	14.85	105	272752	0.488	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.86	83	161707	0.467	ppbv	99
64) n-propylbenzene	15.74	120	61824	0.437	ppbv	83
65) tert-Butylbenzene	16.93	119	215938	0.455	ppbv	98
66) Benzyl Chloride	17.17	91	97171	0.363	ppbv #	94
67) sec-Butylbenzene	17.47	105	314977m	0.441	ppbv	
69) p-Isopropyltoluene	17.83	119	229823	0.425	ppbv	98
70) n-Butylbenzene	18.74	91	234276	0.394	ppbv	97
71) 2-Chlorotoluene	15.64	91	170637	0.413	ppbv	99
72) 4-Ethyltoluene	16.02	105	169436	0.400	ppbv #	97
73) 1,3,5-Trimethylbenzene	16.18	105	181253	0.430	ppbv	95
74) 1,2,4-Trimethylbenzene	16.94	105	205283	0.442	ppbv #	89
75) 1,3-Dichlorobenzene	17.18	146	126813	0.470	ppbv	96
76) 1,4-Dichlorobenzene	17.33	146	106485	0.433	ppbv	97
77) 1,2-Dichlorobenzene	18.00	146	116412	0.449	ppbv	97
78) Hexachloro-1,3-Butadiene	23.56	225	62110m	0.428	ppbv	
79) Naphthalene	22.44	128	86416m	0.274	ppbv	
80) Naphthalene, 2-methyl-	25.14	142	8370	0.136	ppbv	92
81) 1,2,4-Trichlorobenzene	22.16	180	51213m	0.327	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.78 min Scan# 883

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1711194

Ion Ratio Lower Upper

49 100

128 49.3 22.3 66.8

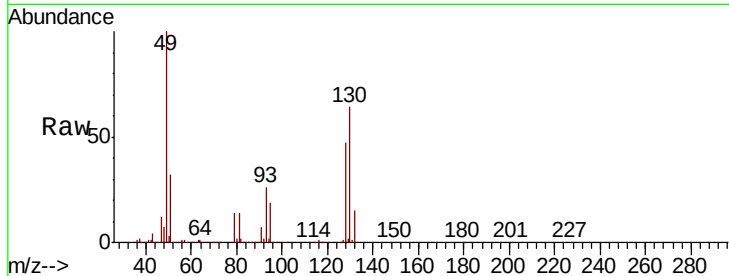
130 62.2 28.4 85.3

Manual Integrations

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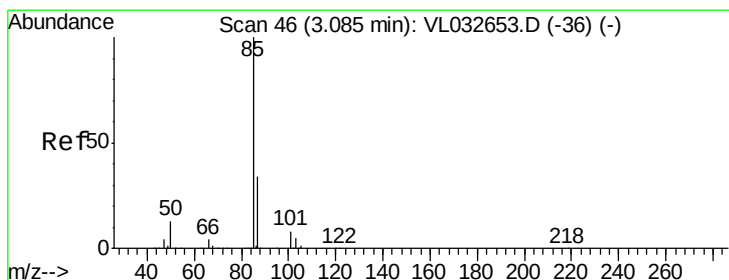
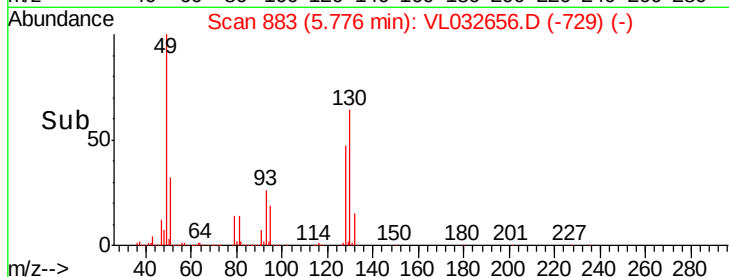
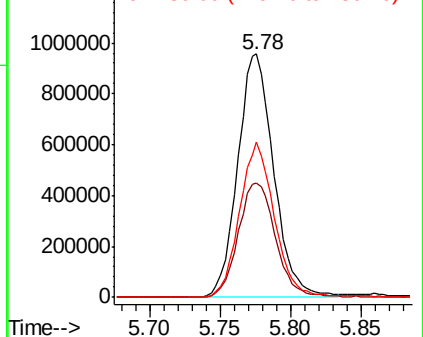
10/24/2018 12:04:35 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.737 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032656.D

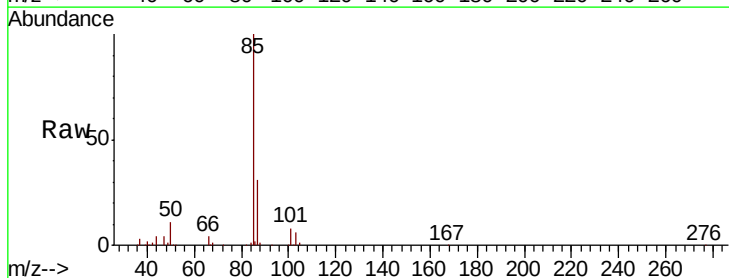
Acq: 18 Oct 2018 18:02

Tgt Ion: 85 Resp: 124367

Ion Ratio Lower Upper

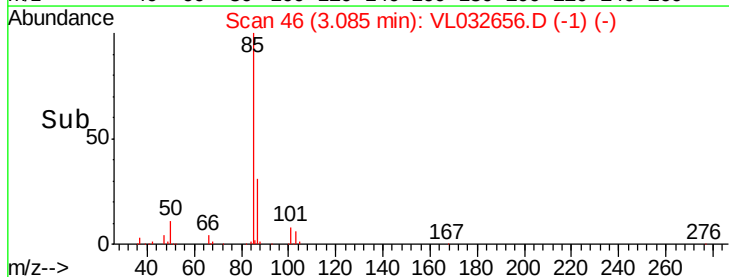
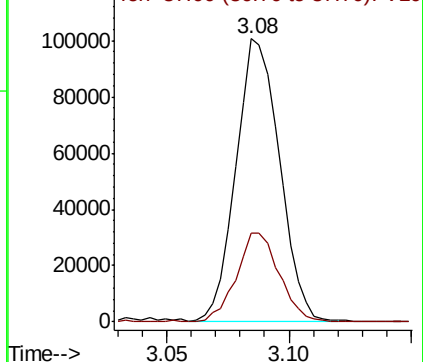
85 100

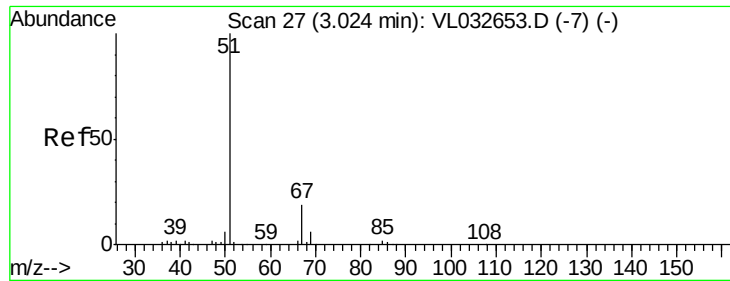
87 31.2 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.496 ppbv

RT: 3.03 min Scan# 28

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 71012

Ion Ratio Lower Upper

51 100

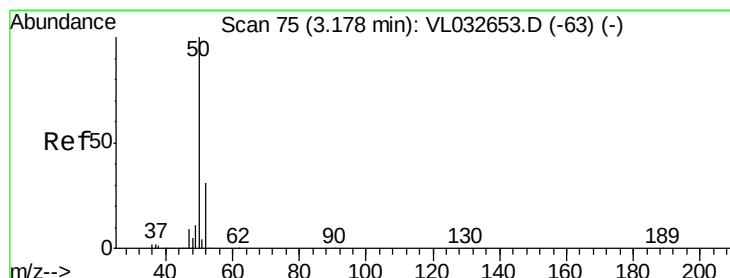
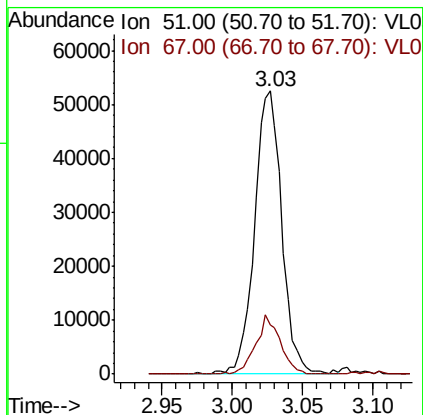
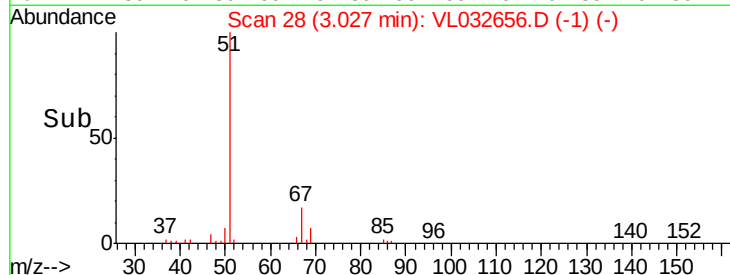
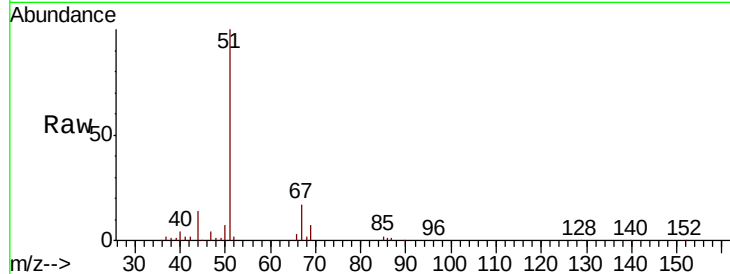
67 18.7 15.2 22.8

Manual Integrations

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#4

Chloromethane

Concen: 0.499 ppbv

RT: 3.18 min Scan# 77

Delta R.T. 0.01 min

Lab File: VL032656.D

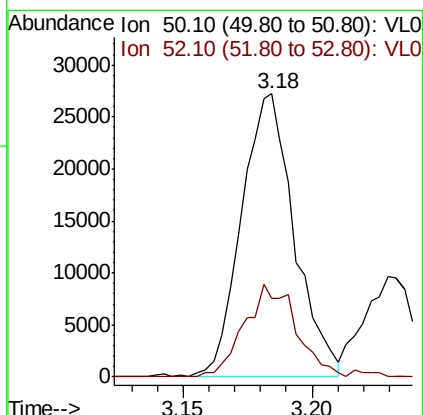
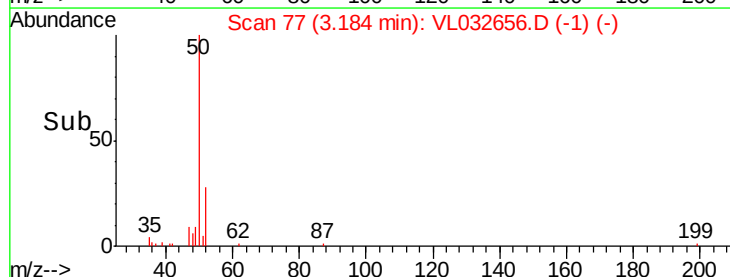
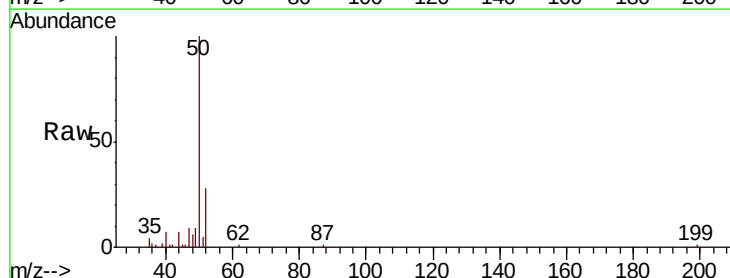
Acq: 18 Oct 2018 18:02

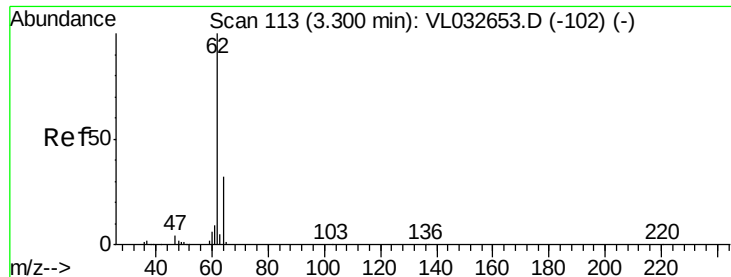
Tgt Ion: 50 Resp: 39019

Ion Ratio Lower Upper

50 100

52 27.8 25.9 38.9





#5

Vinyl Chloride

Concen: 0.489 ppbv

RT: 3.31 min Scan# 115

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 38508

Ion Ratio Lower Upper

62 100

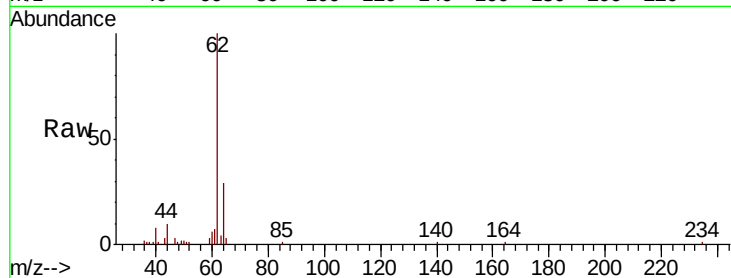
64 29.4 25.5 38.3

Manual Integrations

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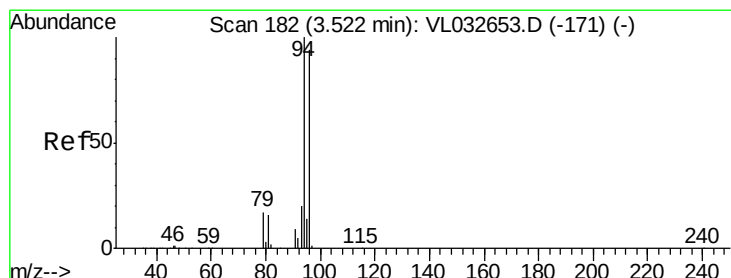
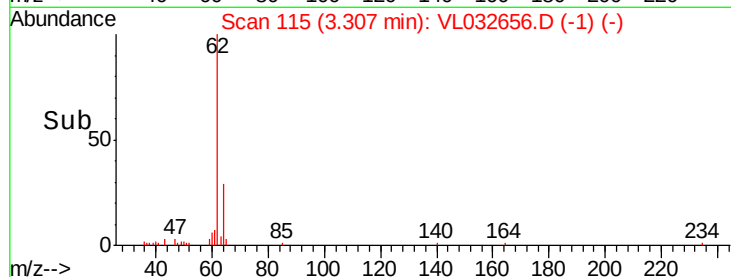
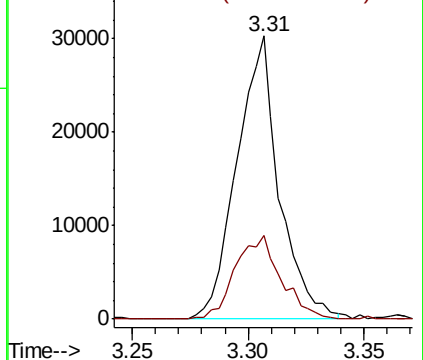
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.515 ppbv

RT: 3.53 min Scan# 184

Delta R.T. 0.01 min

Lab File: VL032656.D

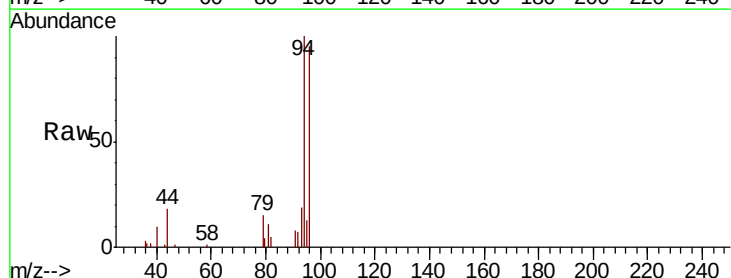
Acq: 18 Oct 2018 18:02

Tgt Ion: 94 Resp: 25622

Ion Ratio Lower Upper

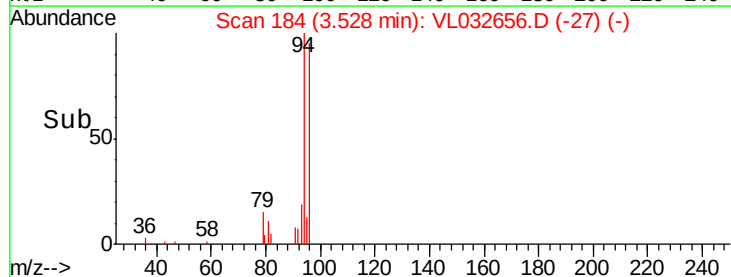
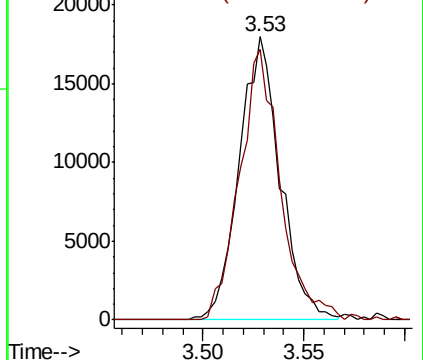
94 100

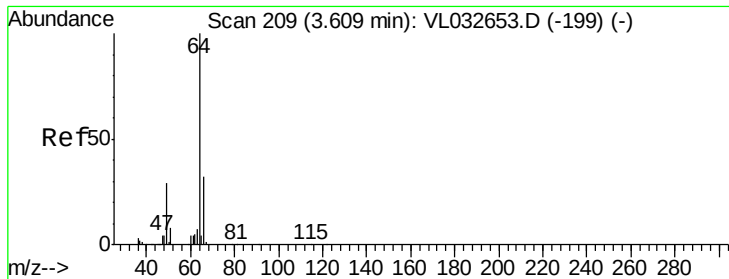
96 95.5 69.8 104.8



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.463 ppbv

RT: 3.61 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 14265

Ion Ratio Lower Upper

64 100

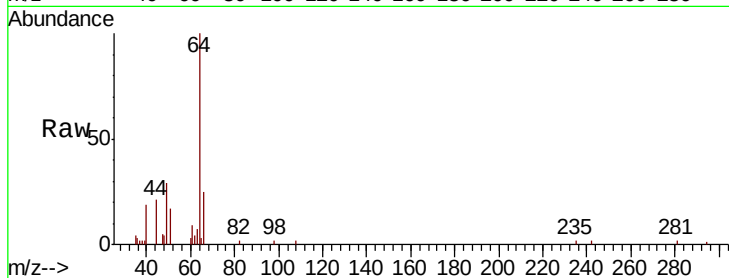
66 24.7 24.4 36.6

Manual Integrations

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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

12000

10000

8000

6000

4000

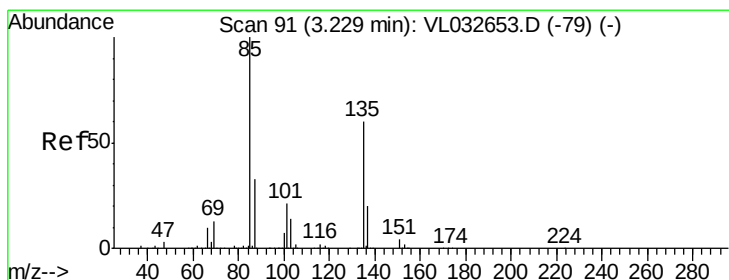
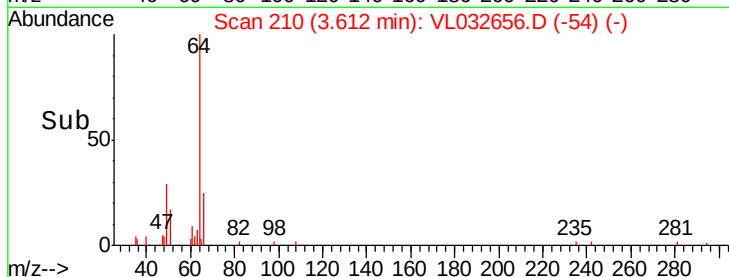
2000

0

3.61

3.65

Time-->



#8

Dichlorotetrafluoroethane

Concen: 0.516 ppbv

RT: 3.23 min Scan# 91

Delta R.T. -0.00 min

Lab File: VL032656.D

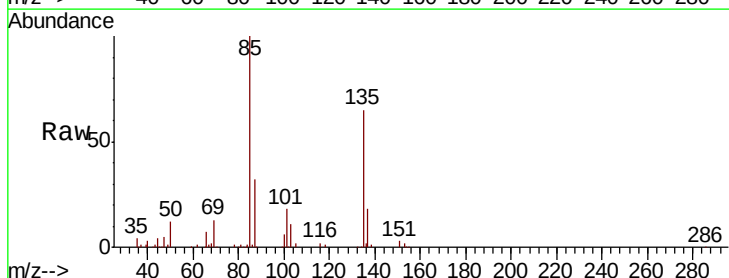
Acq: 18 Oct 2018 18:02

Tgt Ion: 85 Resp: 99555

Ion Ratio Lower Upper

85 100

135 67.5 49.0 73.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V

80000

60000

40000

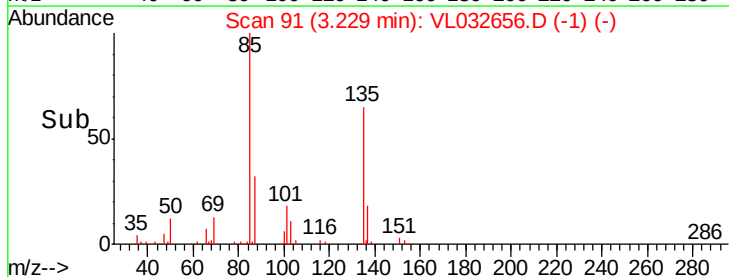
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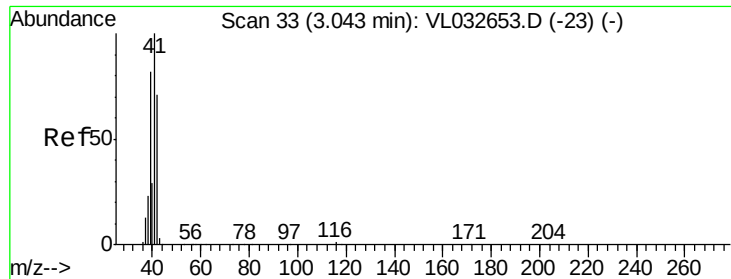
0

3.23

3.25

Time-->





#9

Propene

Concen: 0.516 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 27096

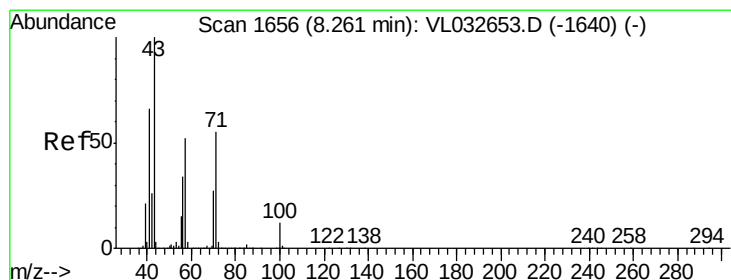
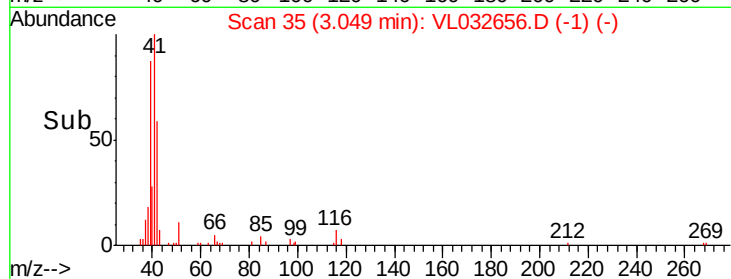
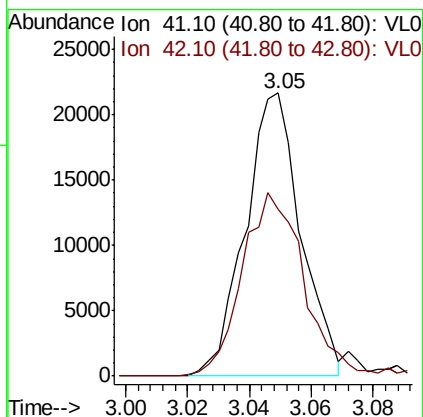
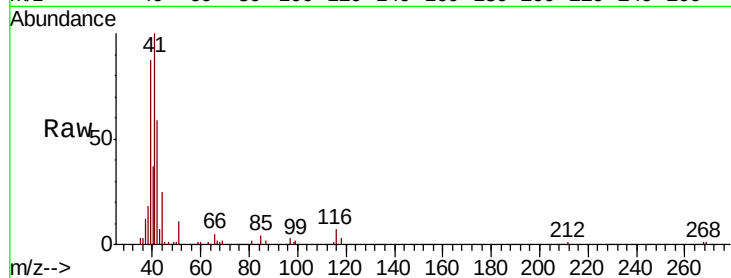
Ion Ratio Lower Upper

41 100

42 73.8 55.4 83.0

Manual Integrations
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#10

Heptane

Concen: 0.492 ppbv m

RT: 8.26 min Scan# 1655

Delta R.T. -0.00 min

Lab File: VL032656.D

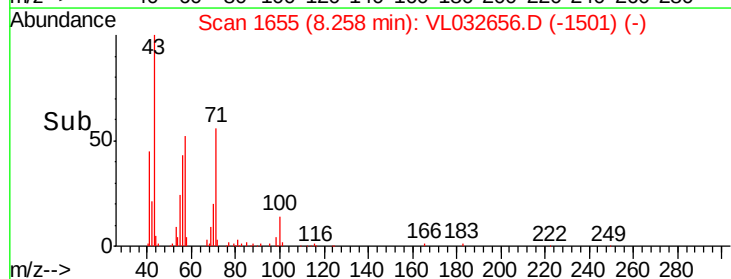
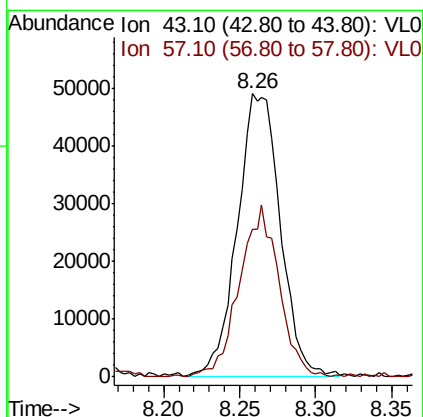
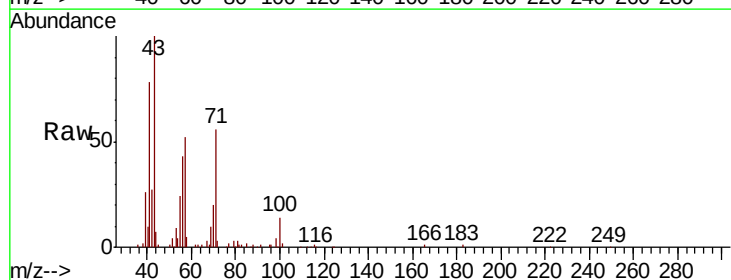
Acq: 18 Oct 2018 18:02

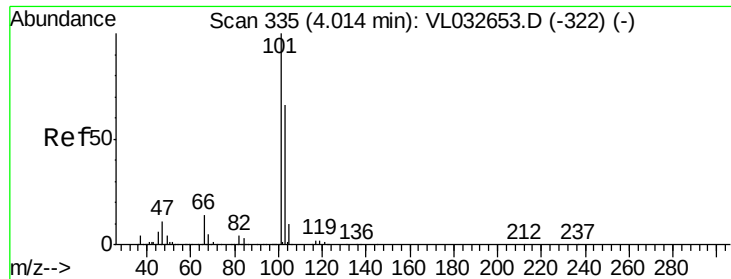
Tgt Ion: 43 Resp: 96635

Ion Ratio Lower Upper

43 100

57 0.0 41.5 62.3#





#11

Trichlorofluoromethane

Concen: 0.582 ppbv

RT: 4.02 min Scan# 336

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:101 Resp: 127990

Ion Ratio Lower Upper

101 100

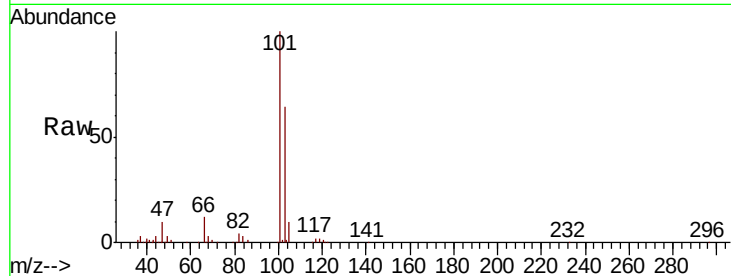
103 63.9 51.4 77.2

Manual Integrations

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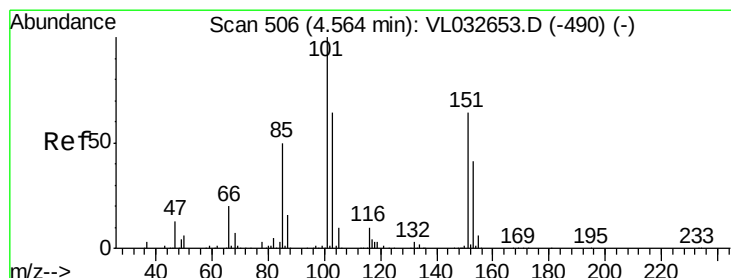
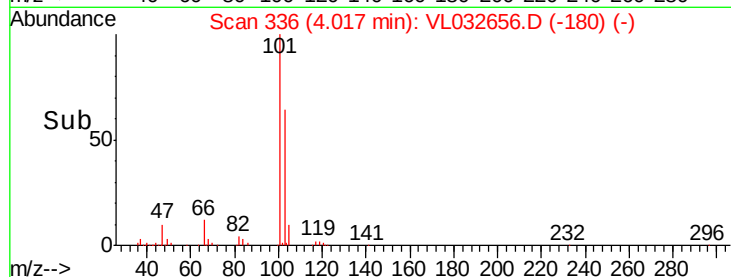
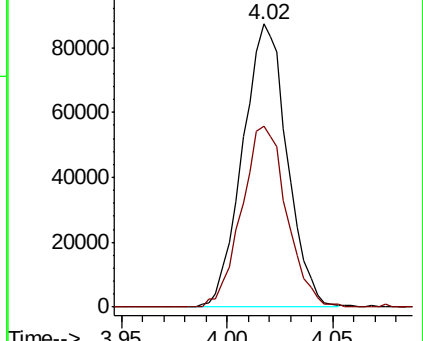
MMDadoda

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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: 0.590 ppbv

RT: 4.56 min Scan# 506

Delta R.T. -0.00 min

Lab File: VL032656.D

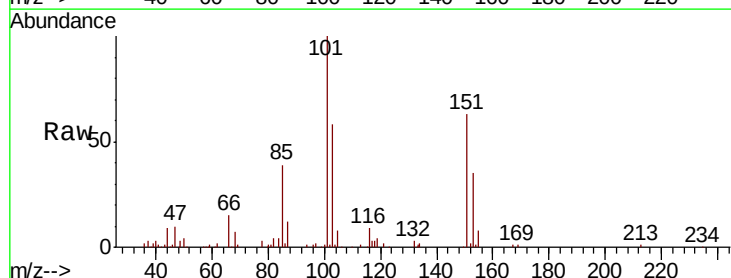
Acq: 18 Oct 2018 18:02

Tgt Ion:101 Resp: 94890

Ion Ratio Lower Upper

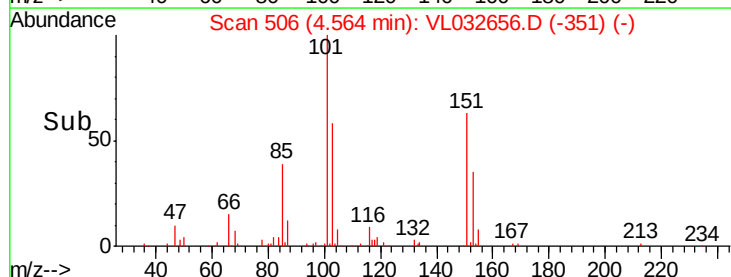
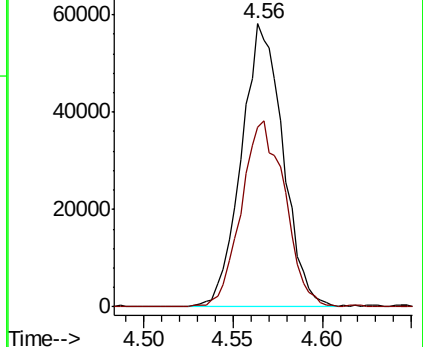
101 100

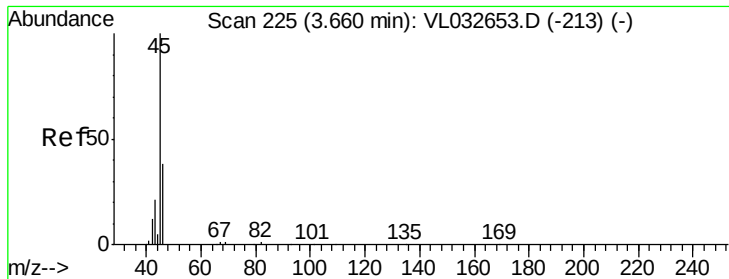
151 68.9 52.3 78.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V





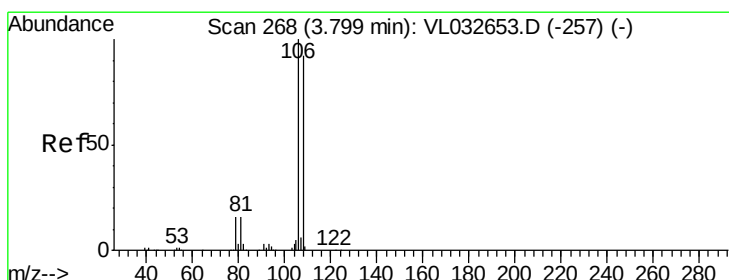
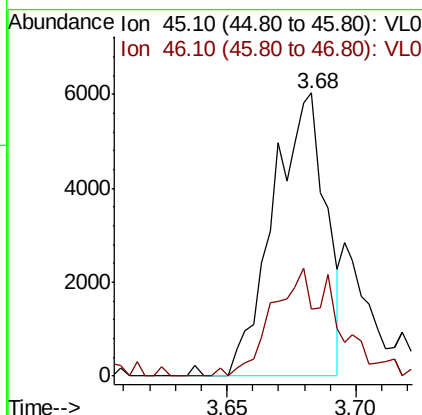
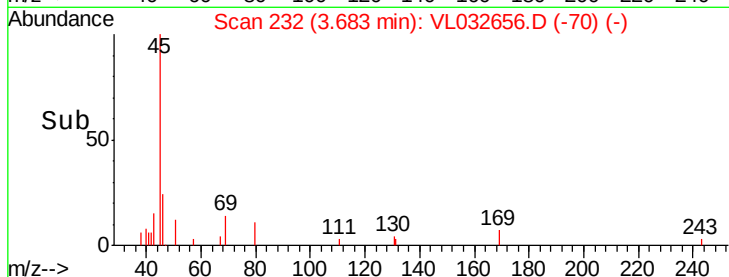
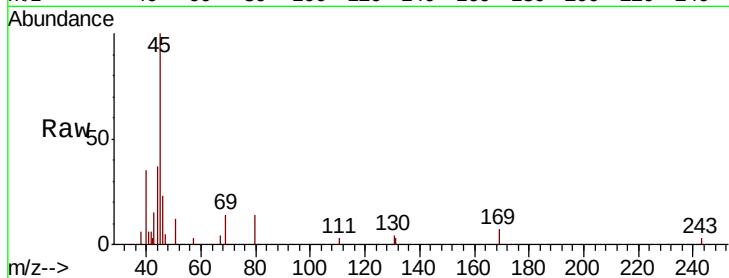
#13
Ethanol
Concen: 0.524 ppbv m
RT: 3.68 min Scan# 232
Delta R.T. 0.02 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
45	100		
46	2.3	15.4	61.8#

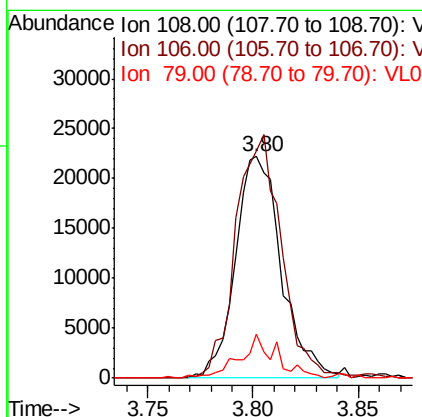
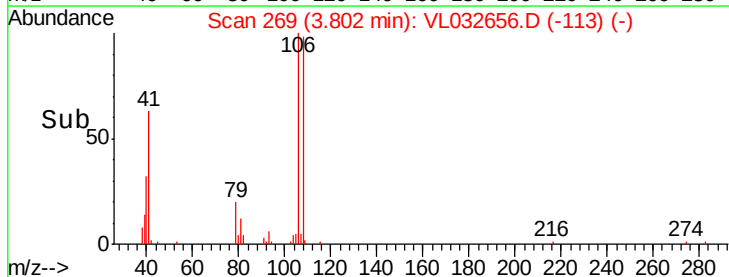
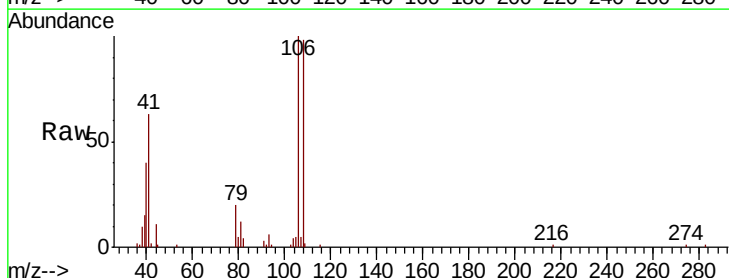
Manual Integrations
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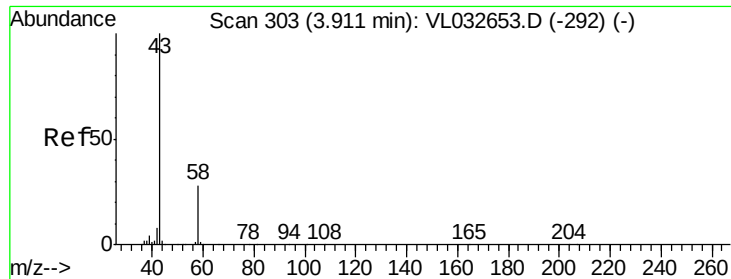
MMDadoda
10/24/2018 12:04:35 PM



#14
Bromoethene
Concen: 0.571 ppbv
RT: 3.80 min Scan# 269
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
108	100		
106	109.3	85.0	127.4
79	16.7	13.7	20.5





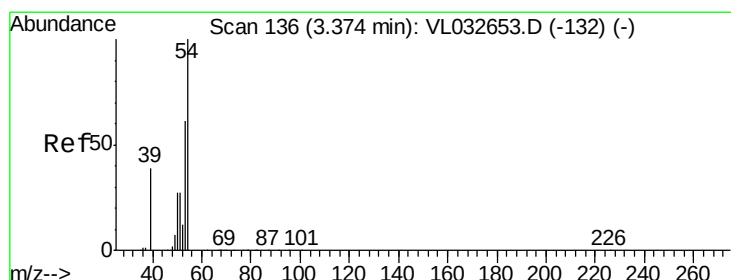
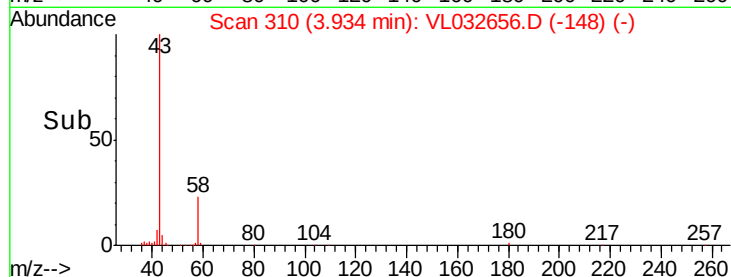
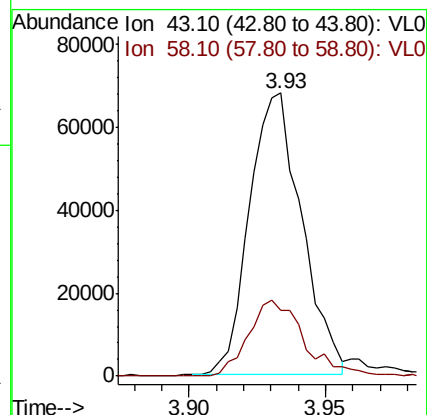
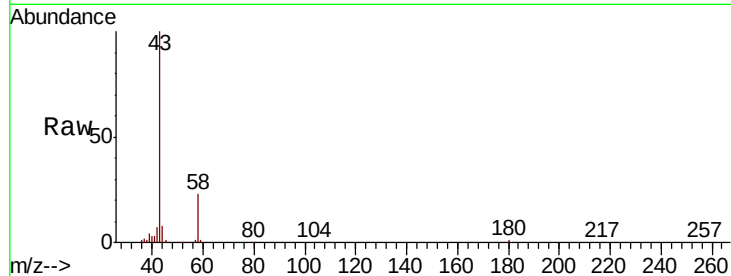
#15
Acetone
Concen: 0.594 ppbv
RT: 3.93 min Scan# 310
Delta R.T. 0.02 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 43 Resp: 90477
Ion Ratio Lower Upper
43 100
58 28.8 22.1 33.1

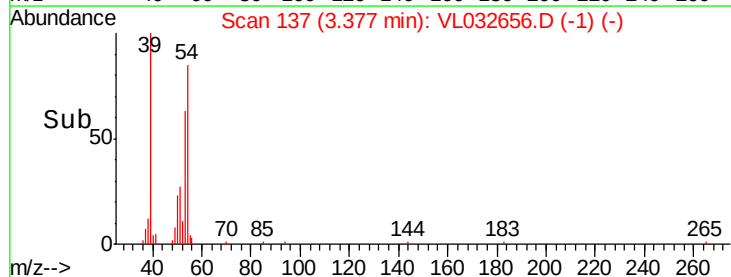
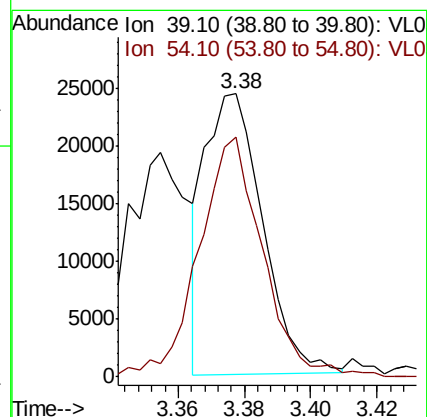
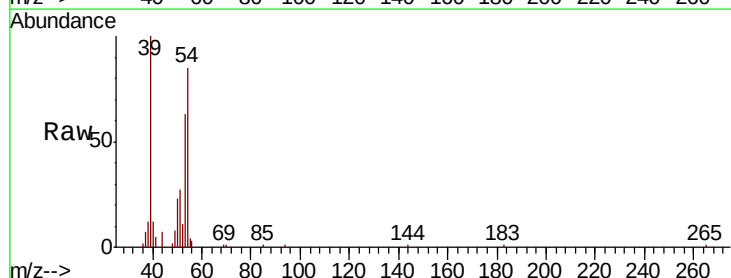
Manual Integrations
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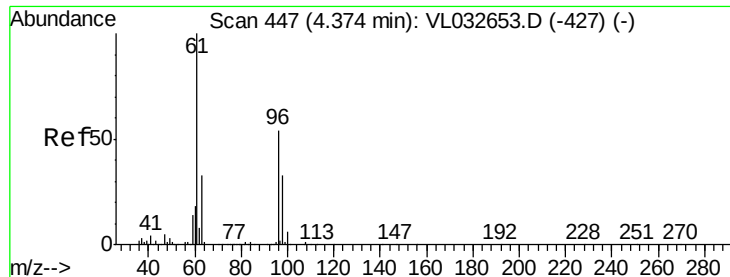
MMDadoda
10/24/2018 12:04:35 PM



#16
1,3-Butadiene
Concen: 0.517 ppbv
RT: 3.38 min Scan# 137
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion: 39 Resp: 29178
Ion Ratio Lower Upper
39 100
54 95.0 90.4 135.6





#17

tert-Butyl alcohol

Concen: 1.275 ppbv

RT: 4.40 min Scan# 454

Delta R.T. 0.02 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 59 Resp: 17722

Ion Ratio Lower Upper

59 100

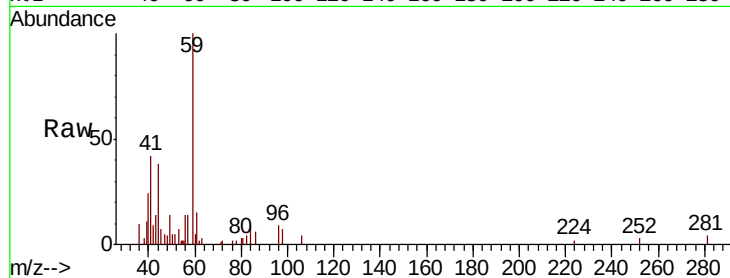
57 0.0 0.0 0.0

Manual Integrations

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Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0

12000

10000

8000

6000

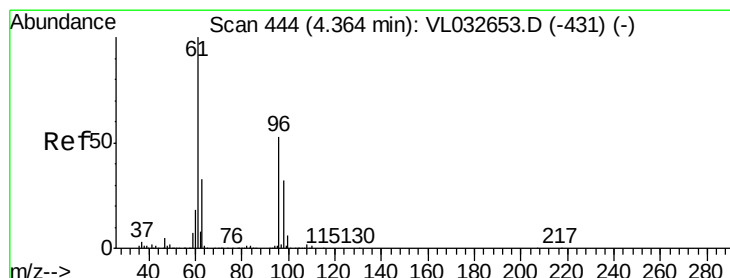
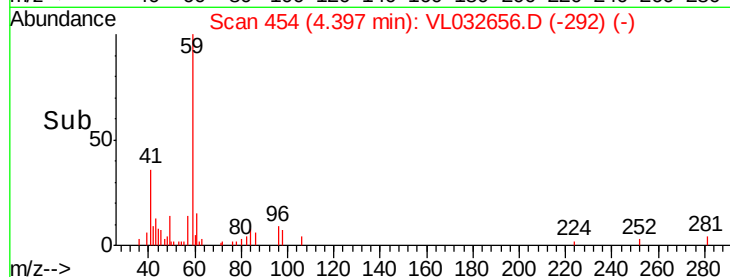
4000

2000

0

4.38 4.40 4.42

Time-->



#18

1,1-Dichloroethene

Concen: 0.564 ppbv

RT: 4.37 min Scan# 446

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

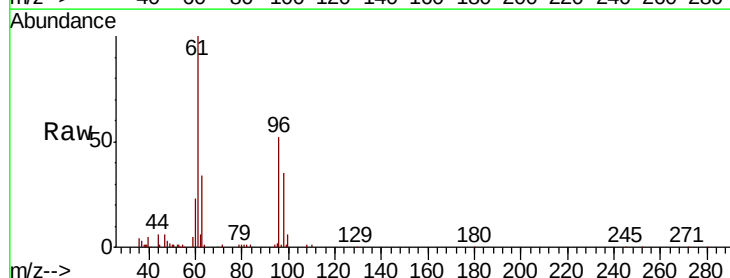
Tgt Ion: 96 Resp: 40913

Ion Ratio Lower Upper

96 100

61 191.5 151.6 227.4

98 66.9 50.6 75.8



Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

60000

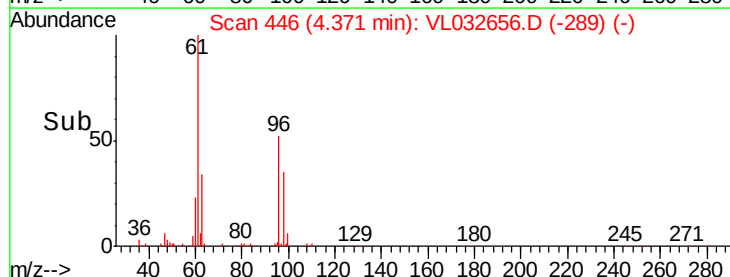
40000

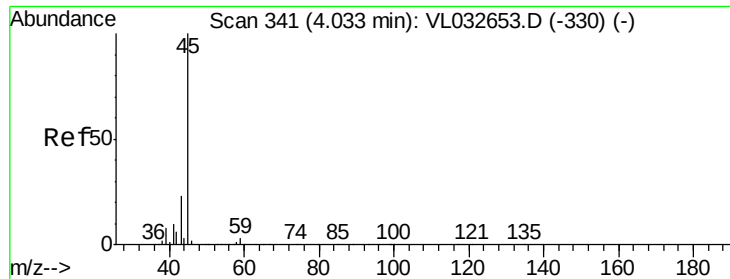
20000

0

4.30 4.35 4.40

Time-->





#19

Isopropyl Alcohol

Concen: 0.544 ppbv

RT: 4.06 min Scan# 349

Delta R.T. 0.03 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 58451

Ion Ratio Lower Upper

45 100

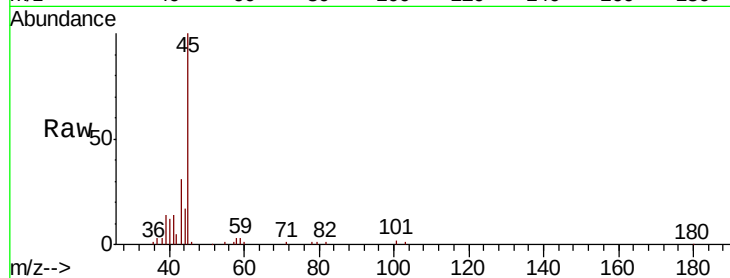
58 5.0 2.0 3.0#

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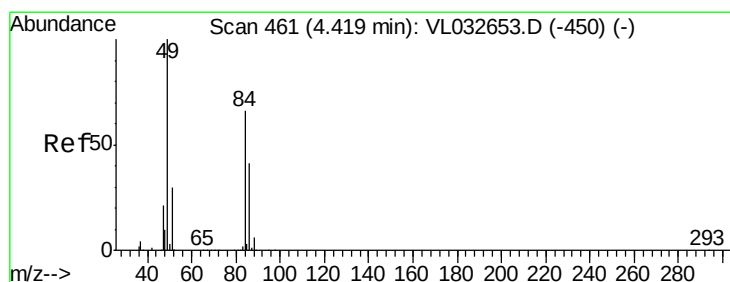
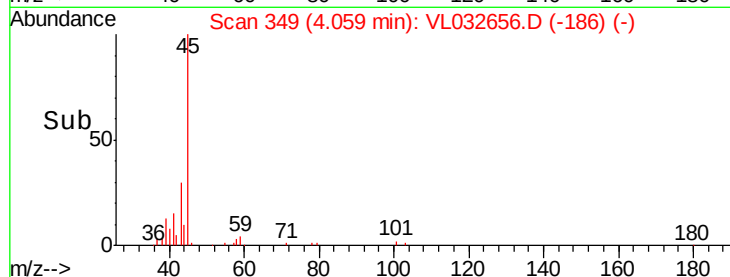
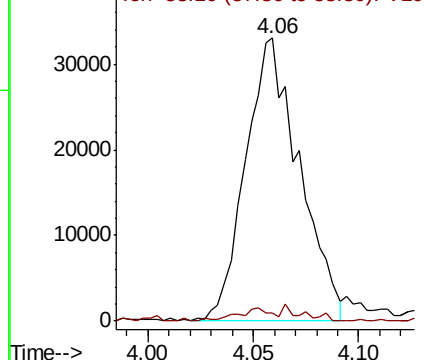
MMDadoda

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.614 ppbv

RT: 4.42 min Scan# 462

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion: 84 Resp: 41873

Ion Ratio Lower Upper

84 100

49 130.2 113.5 170.3

51 49.0 34.8 52.2

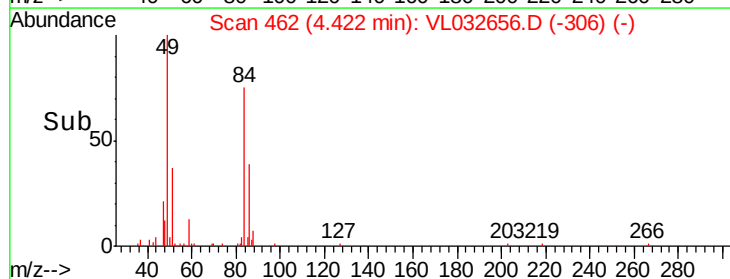
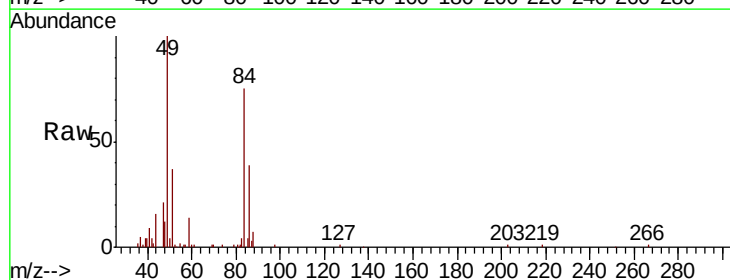
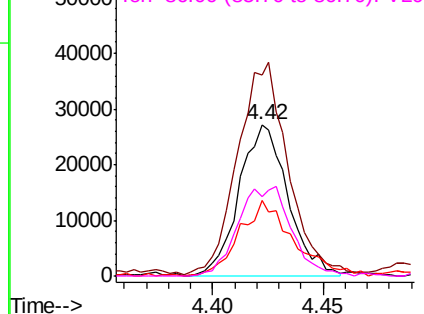
86 52.2 47.9 71.9

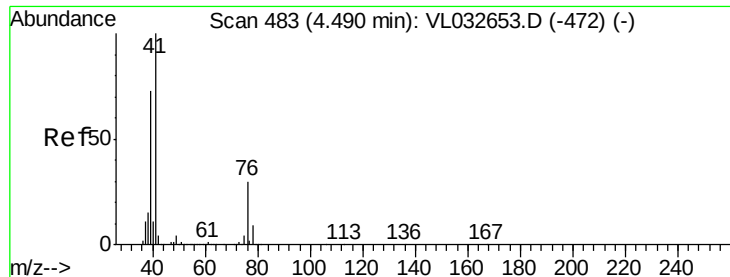
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





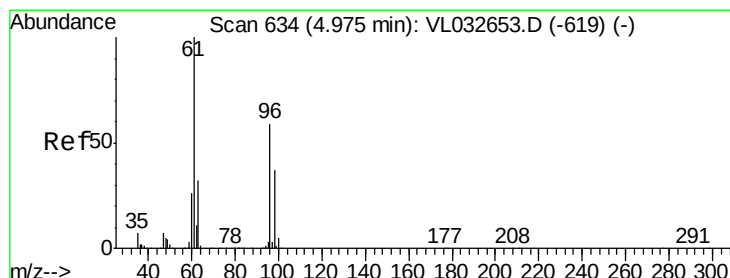
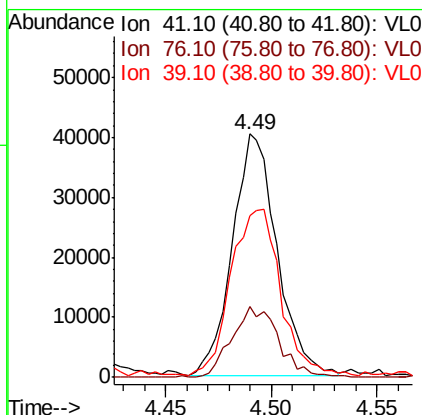
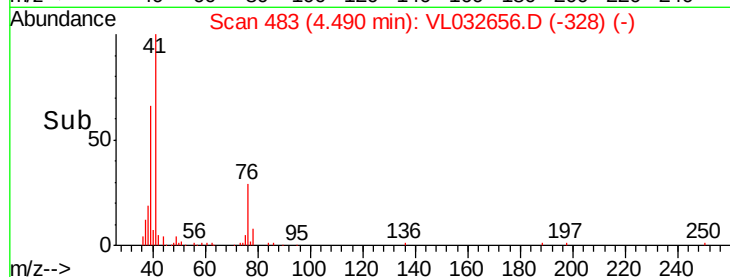
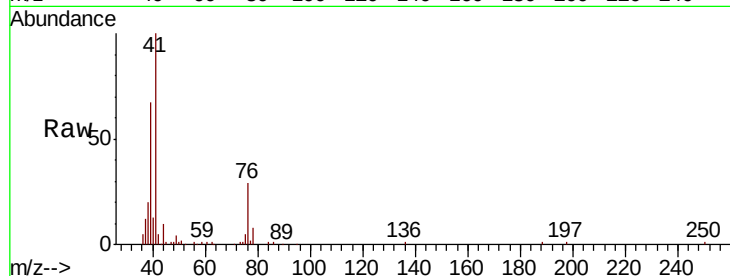
#21
Allvl Chloride
Concen: 0.516 ppbv
RT: 4.49 min Scan# 483
Delta R.T. -0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
41	100		
76	31.1	24.3	36.5
39	78.6	60.3	90.5

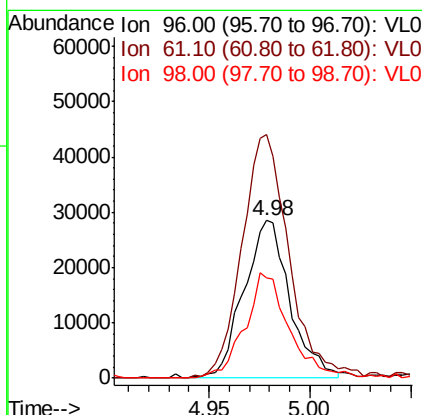
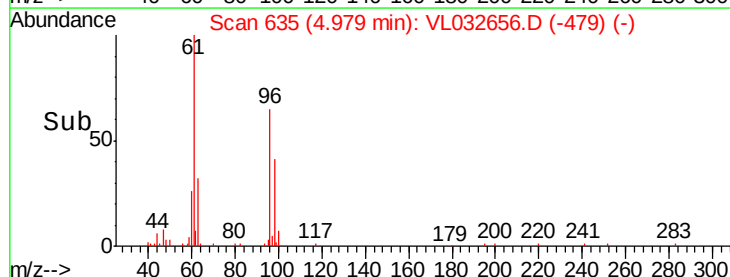
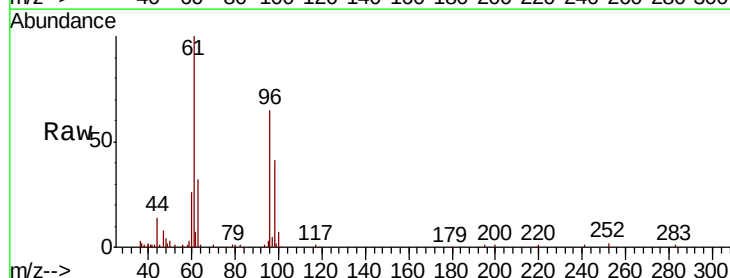
Manual Integrations
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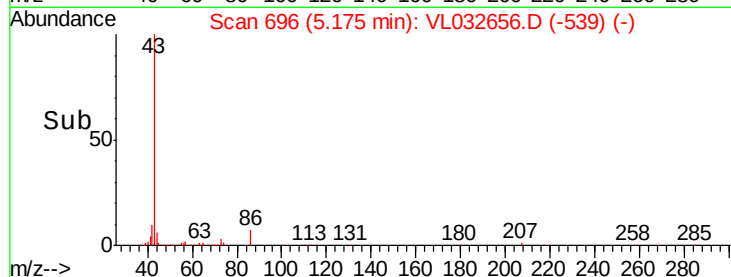
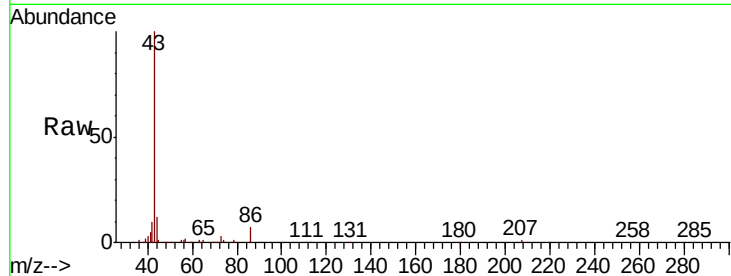
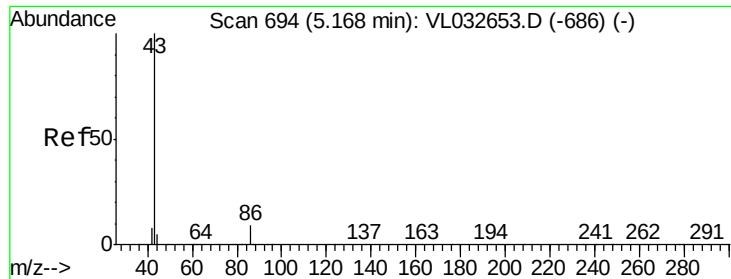
MMDadoda
10/24/2018 12:04:35 PM



#22
trans-1,2-Dichloroethene
Concen: 0.543 ppbv
RT: 4.98 min Scan# 635
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
96	100		
61	154.4	140.4	210.6
98	63.8	55.0	82.6





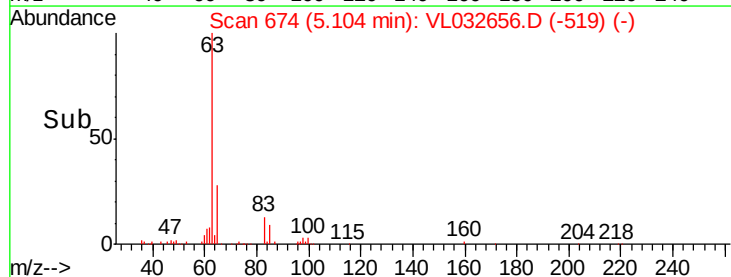
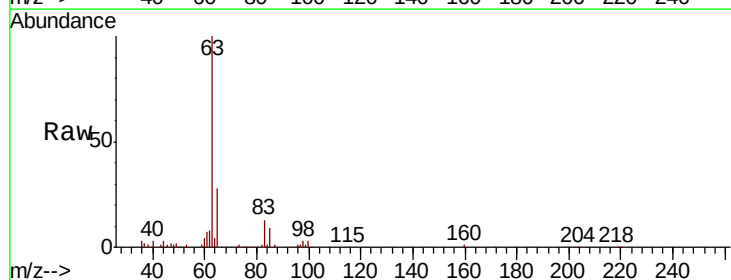
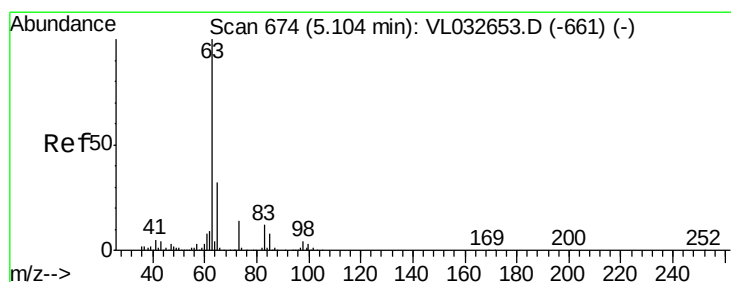
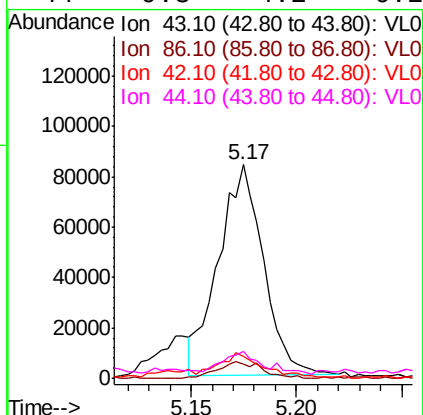
#23
 Vinyl Acetate
 Concen: 0.514 ppbv
 RT: 5.17 min Scan# 696
 Delta R.T. 0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tot Ion	Ratio	Lower	Upper
43	100		
86	6.3	6.1	9.1
42	9.8	7.4	11.2
44	9.3	4.2	6.2

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

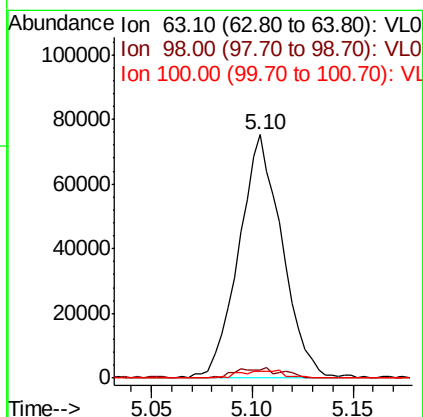
Manual Integrations
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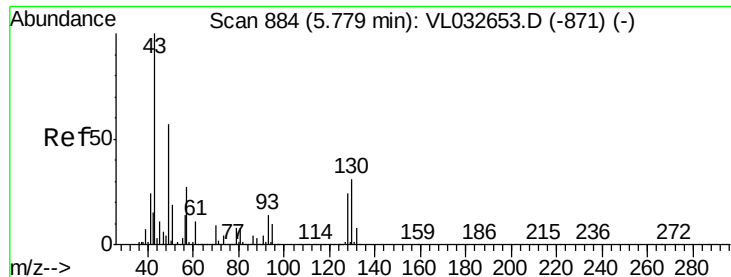
MMDadoda
 10/24/2018 12:04:35 PM



#24
 1,1-Dichloroethane
 Concen: 0.499 ppbv
 RT: 5.10 min Scan# 674
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
63	100		
98	3.9	2.1	6.3
100	3.0	1.2	3.6





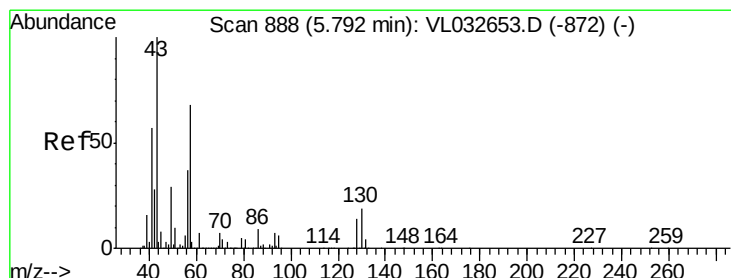
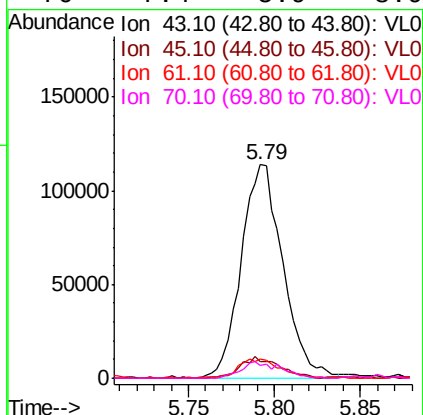
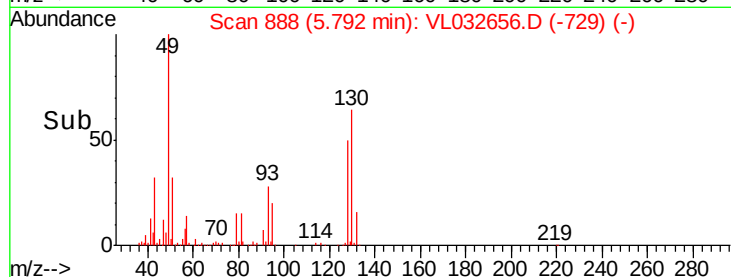
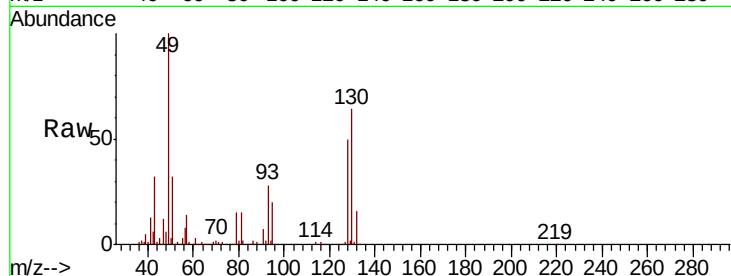
#25
Ethyl Acetate
Concen: 0.533 ppbv
RT: 5.79 min Scan# 888
Delta R.T. 0.01 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.0	12.0
61	9.6	8.0	12.0
70	7.4	5.9	8.9

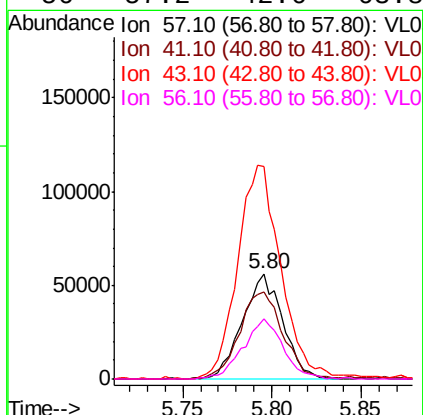
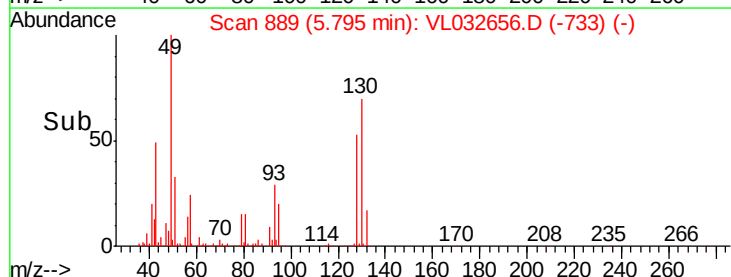
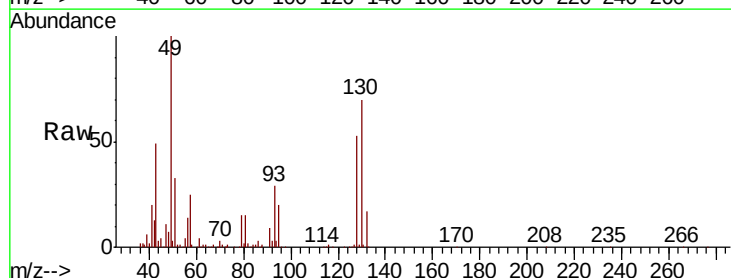
Manual Integrations
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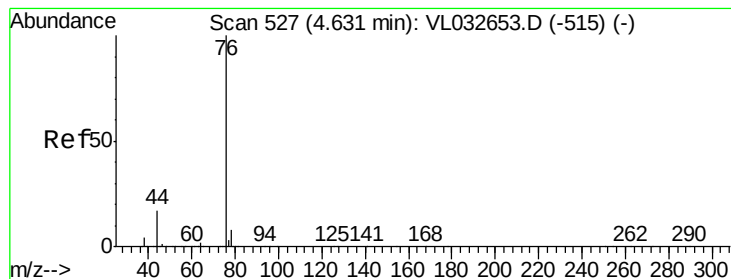
MMDadoda
10/24/2018 12:04:35 PM



#26
Hexane
Concen: 0.545 ppbv
RT: 5.80 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.1	67.4	101.0
43	220.0	171.9	257.9
56	57.2	42.6	63.8





#27

Carbon Disulfide

Concen: 0.507 ppbv

RT: 4.64 min Scan# 529

Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

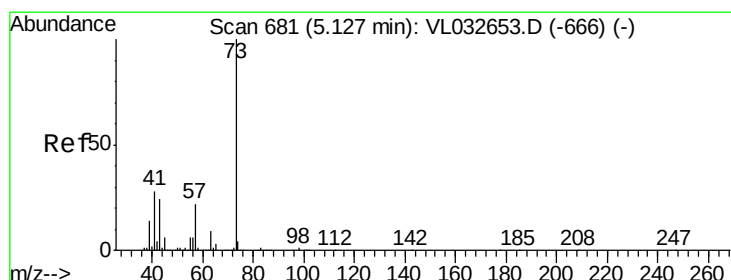
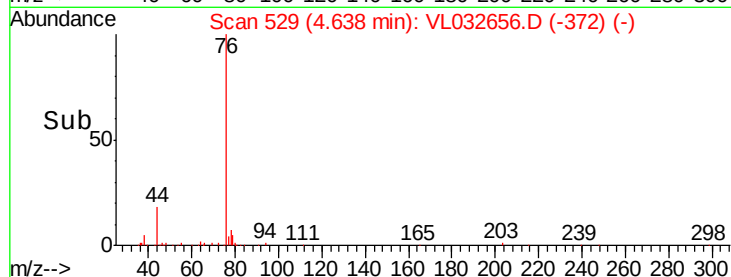
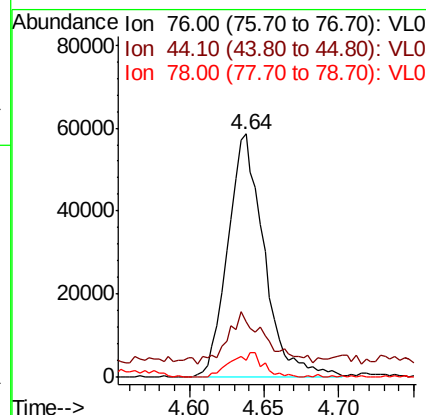
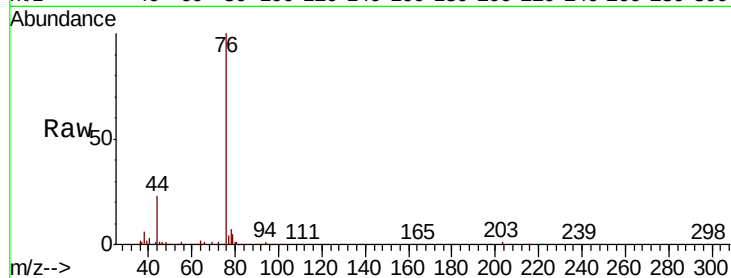
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
76	100		
44	25.0	13.7	20.5#
78	9.6	7.4	11.2

Manual Integrations
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10/24/2018 12:04:35 PM



#28

Methyl tert-Butyl Ether

Concen: 0.513 ppbv

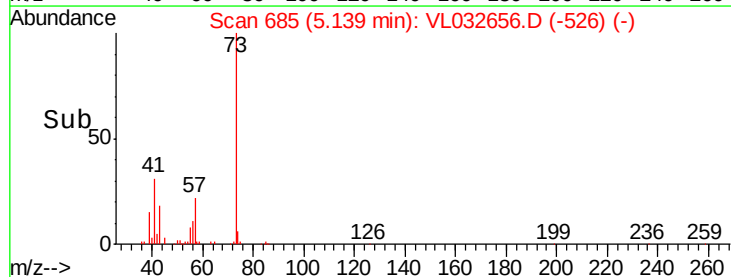
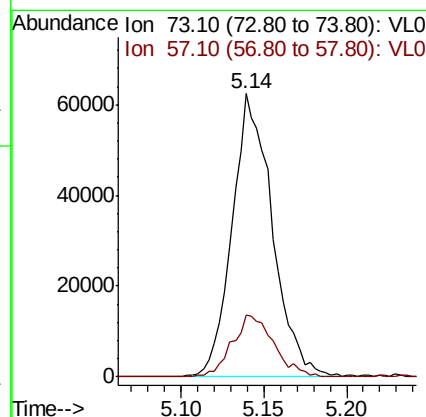
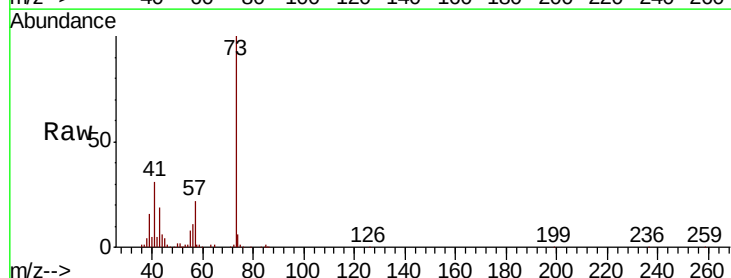
RT: 5.14 min Scan# 685

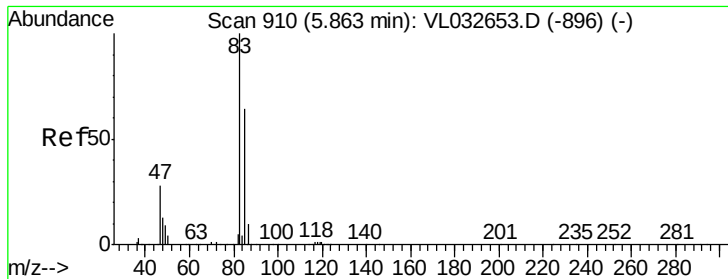
Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.0	27.0





#29

Chloroform

Concen: 0.495 ppbv

RT: 5.86 min Scan# 910

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 83 Resp: 140880

Ion Ratio Lower Upper

83 100

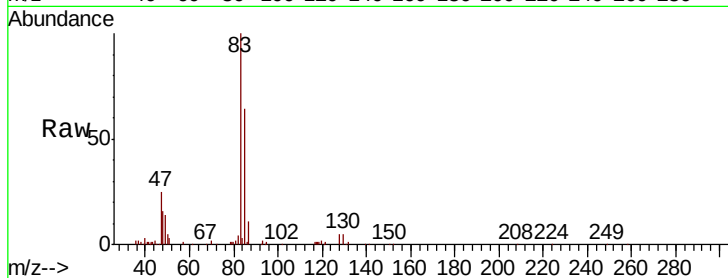
85 64.0 53.0 79.6

Manual Integrations

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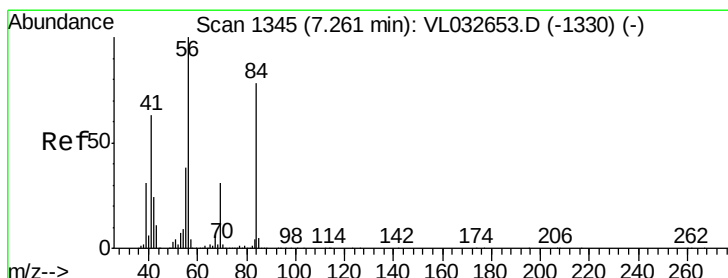
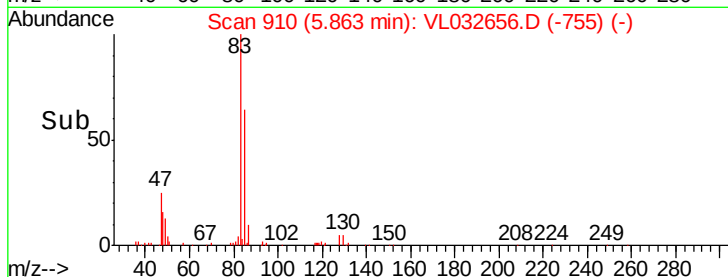
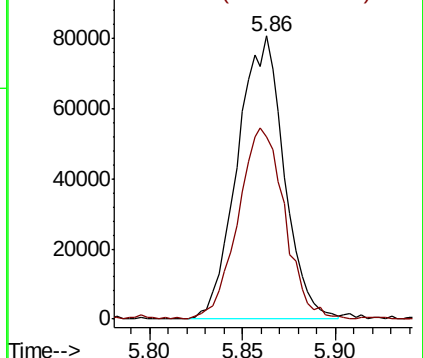
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.467 ppbv

RT: 7.26 min Scan# 1346

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

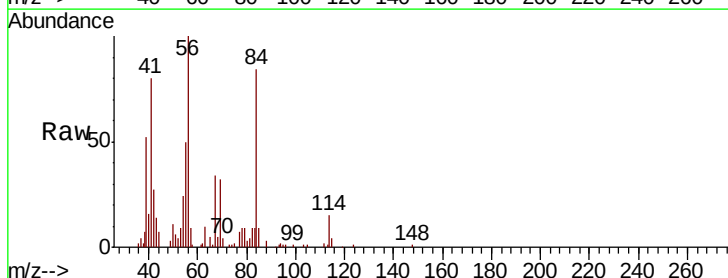
Tgt Ion: 84 Resp: 59733

Ion Ratio Lower Upper

84 100

56 126.8 108.3 162.5

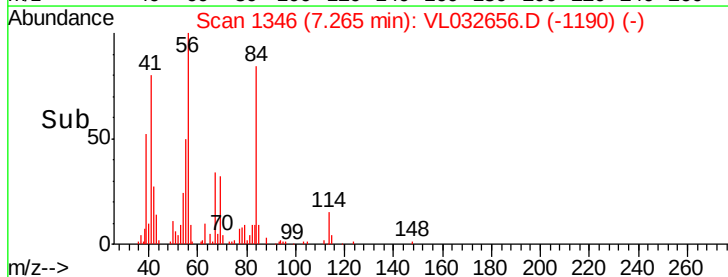
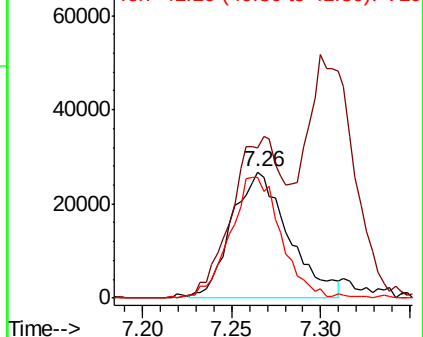
41 86.7 64.8 97.2

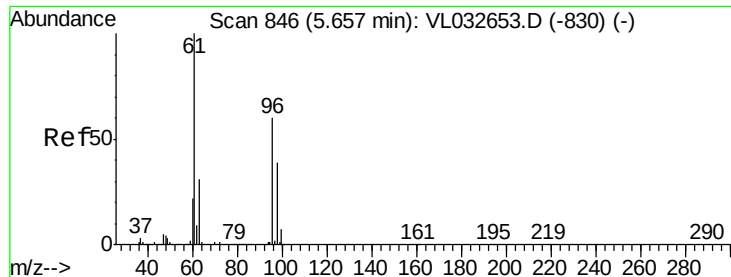


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

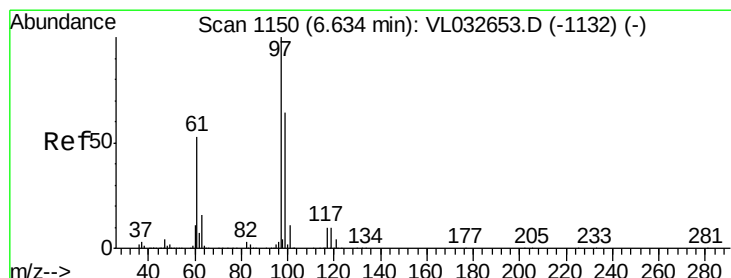
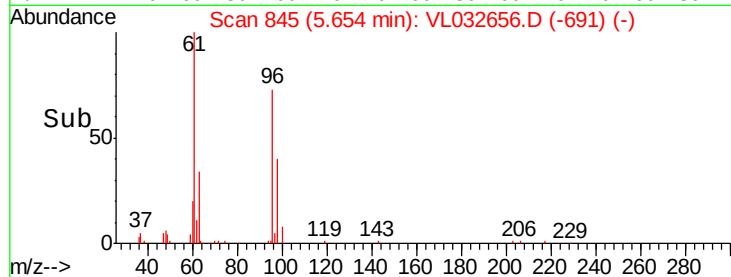
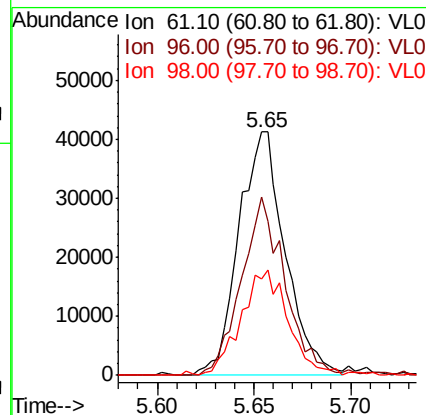
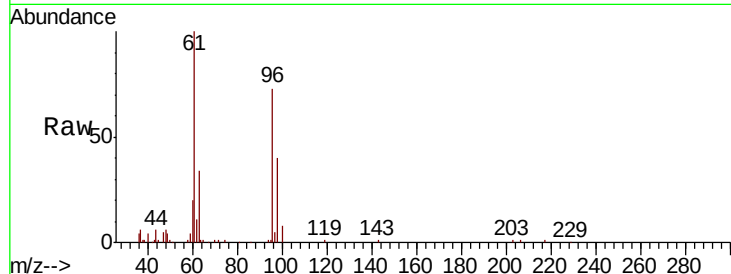
cis-1,2-Dichloroethene
 Concen: 0.442 ppbv
 RT: 5.65 min Scan# 845
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	73.2	51.8	77.6
98	39.3	33.8	50.6

Manual Integrations
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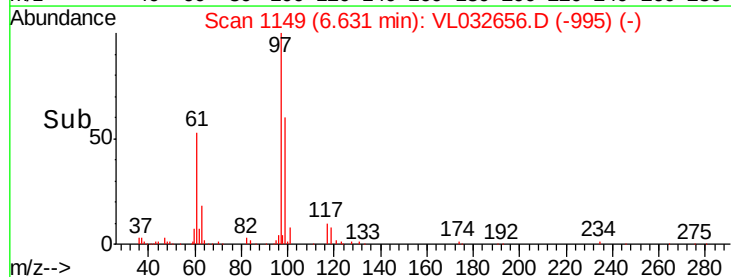
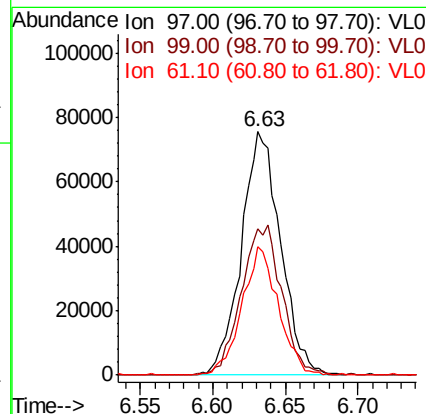
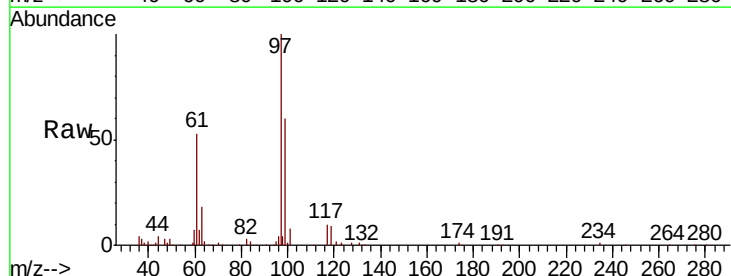
MMDadoda
 10/24/2018 12:04:35 PM

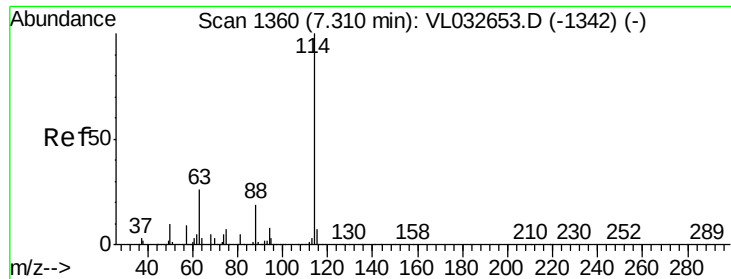


#32

1,1,1-Trichloroethane
 Concen: 0.501 ppbv
 RT: 6.63 min Scan# 1149
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.5	52.0	78.0
61	49.2	40.7	61.1





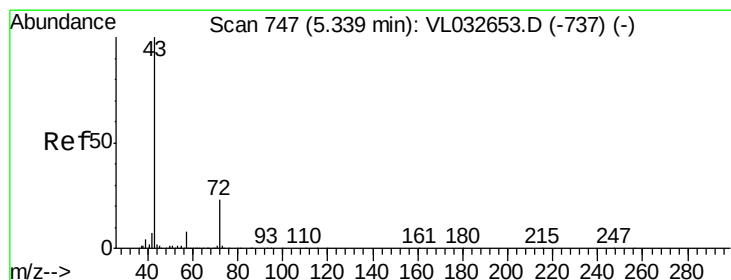
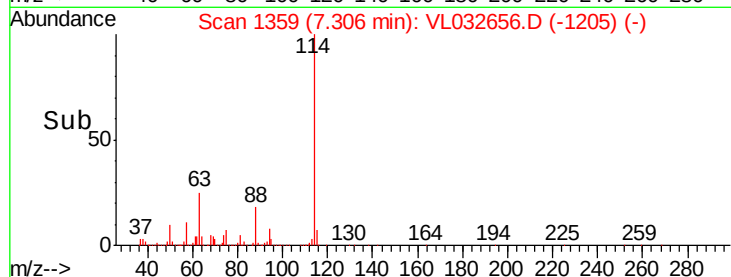
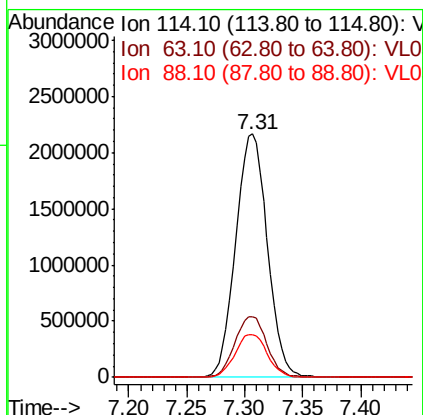
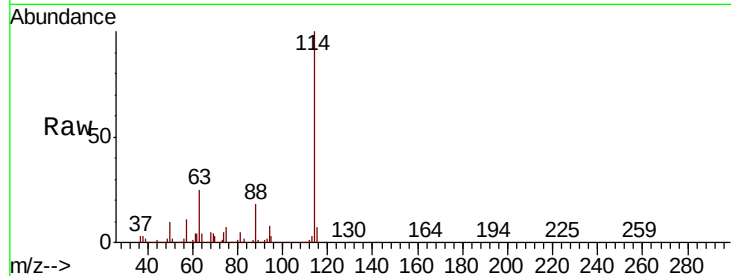
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.31 min Scan# 1359
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.3	21.7	32.5
88	17.9	14.9	22.3

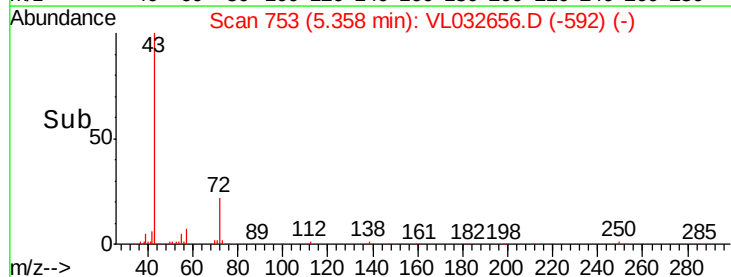
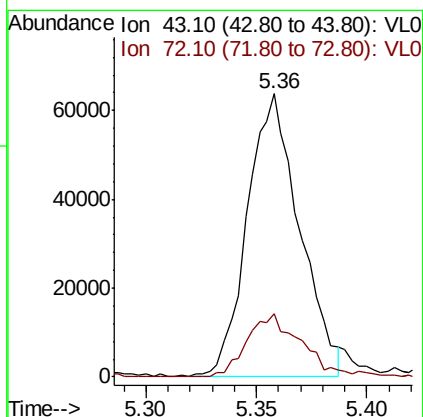
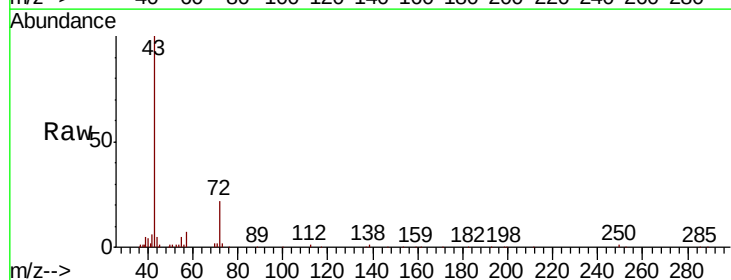
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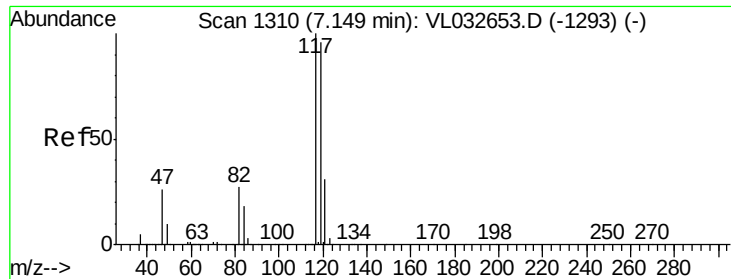
MMDadoda
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#34
 2-Butanone
 Concen: 0.459 ppbv
 RT: 5.36 min Scan# 753
 Delta R.T. 0.02 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.6	18.6	27.8





#35

Carbon Tetrachloride

Concen: 0.454 ppbv

RT: 7.15 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

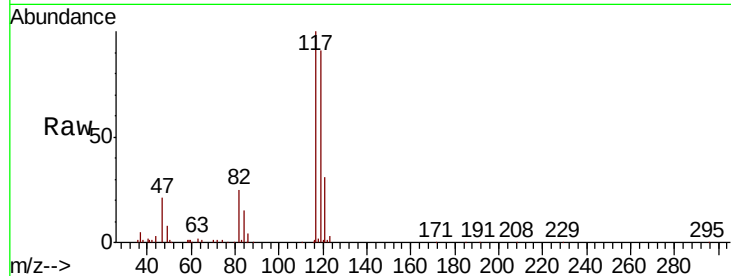
ClientSampleId :

VSTDIC0.5

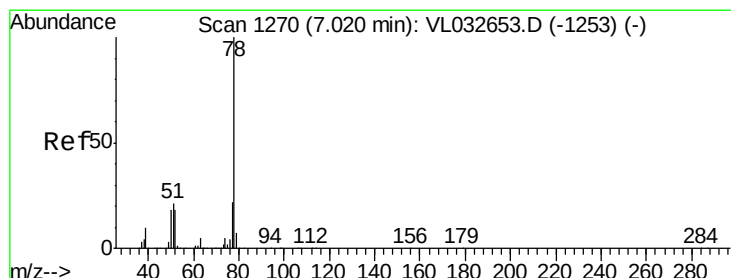
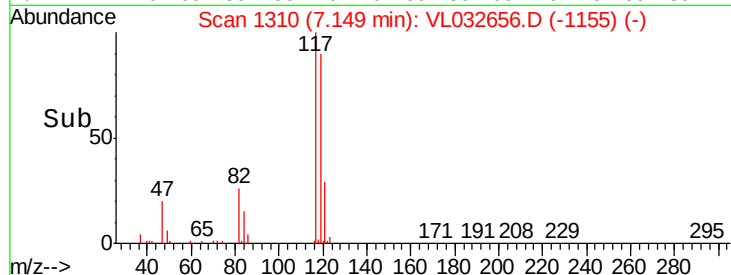
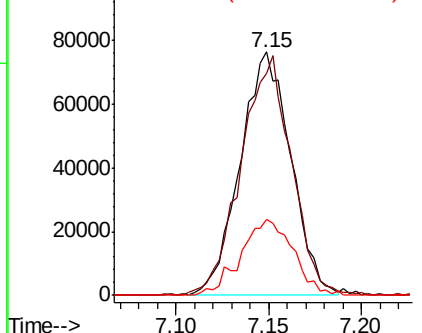
Tot Ion:	117	Resp:	144207
Ion Ratio	Lower	Upper	
117	100		
119	90.3	75.7	113.5
121	30.8	24.7	37.1

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Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.487 ppbv

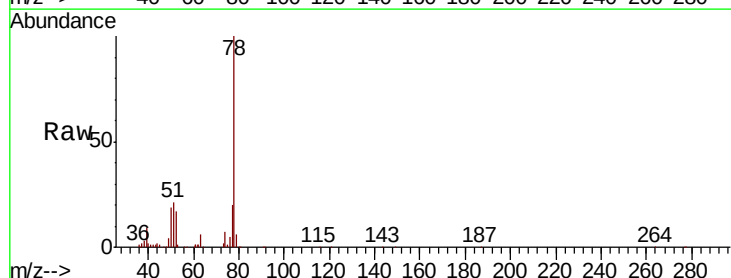
RT: 7.02 min Scan# 1270

Delta R.T. -0.00 min

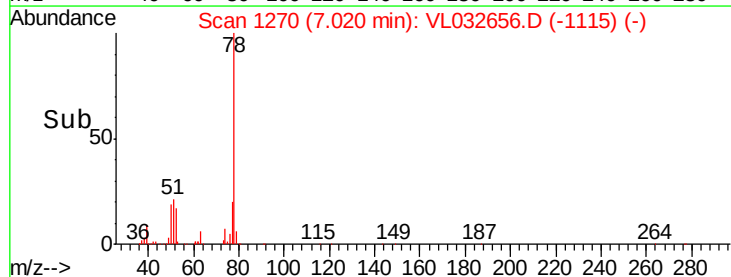
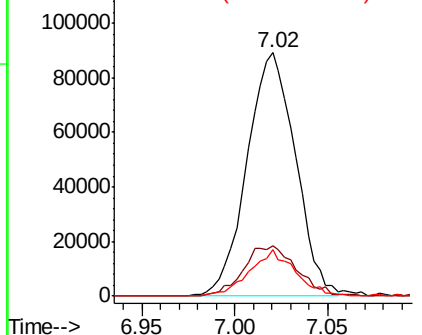
Lab File: VL032656.D

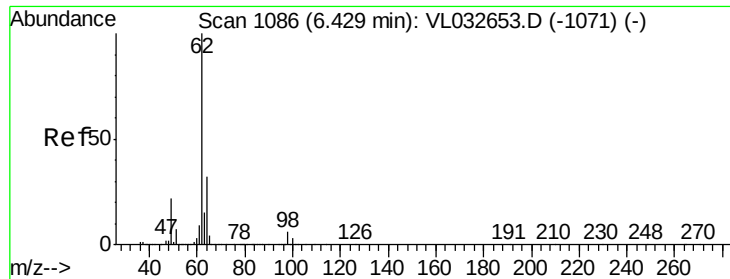
Acq: 18 Oct 2018 18:02

Tgt Ion:	78	Resp:	161716
Ion Ratio	Lower	Upper	
78	100		
77	20.5	18.1	27.1
50	19.3	15.1	22.7



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: 0.463 ppbv

RT: 6.43 min Scan# 1085

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

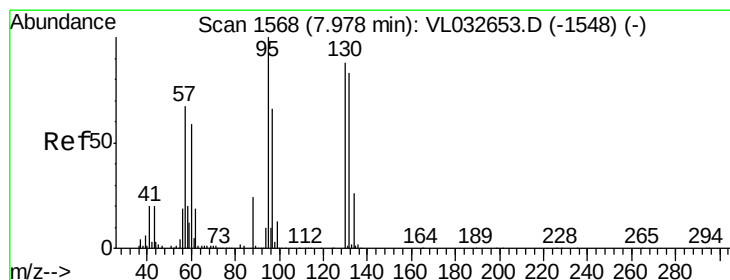
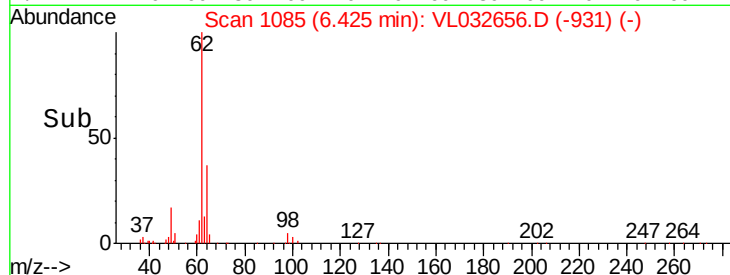
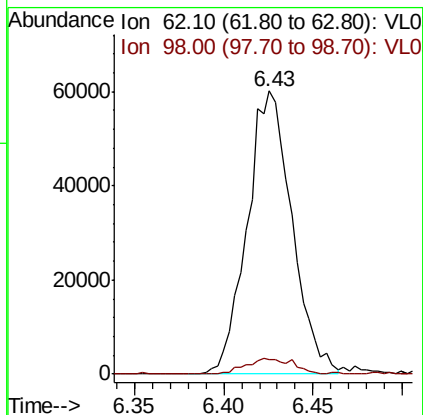
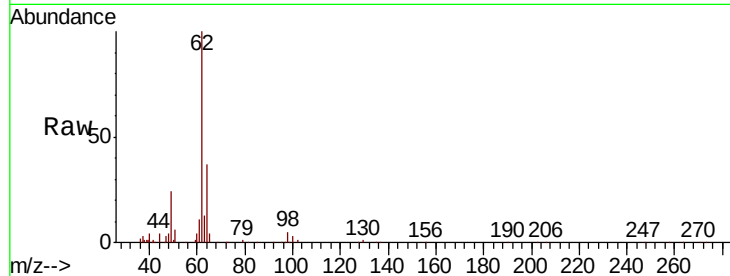
ClientSampleId :

VSTDIC0.5

Tot Ion:	62	Resp:	105465
Ion Ratio	Lower	Upper	
62	100		
98	6.0	4.4	6.6

Manual Integrations
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#38

Trichloroethene

Concen: 0.507 ppbv

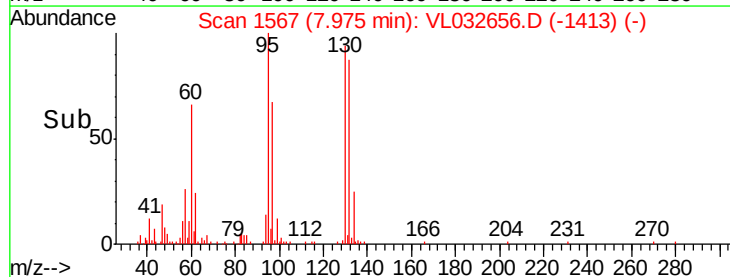
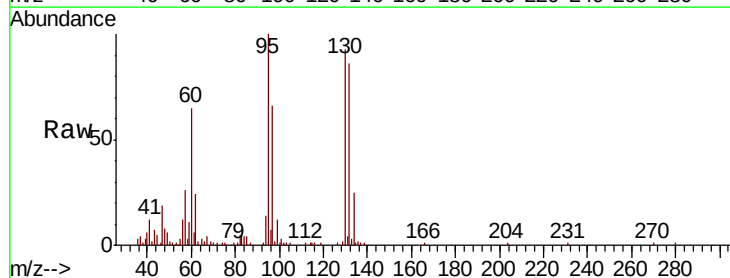
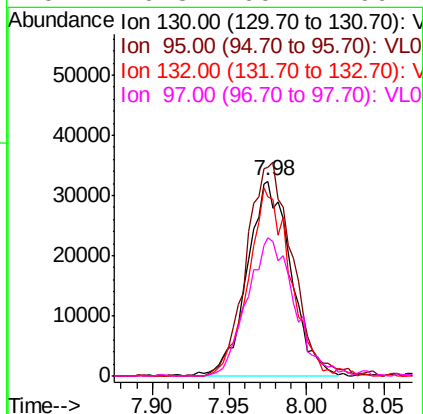
RT: 7.98 min Scan# 1567

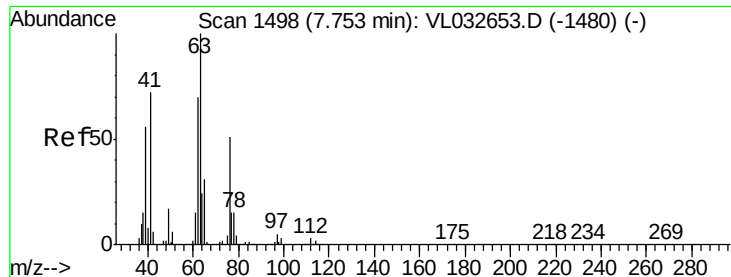
Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion:	130	Resp:	63273
Ion Ratio	Lower	Upper	
130	100		
95	106.1	93.4	140.0
132	92.4	76.5	114.7
97	70.8	60.2	90.2





#39

1,2-Dichloropropane

Concen: 0.486 ppbv m

RT: 7.76 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

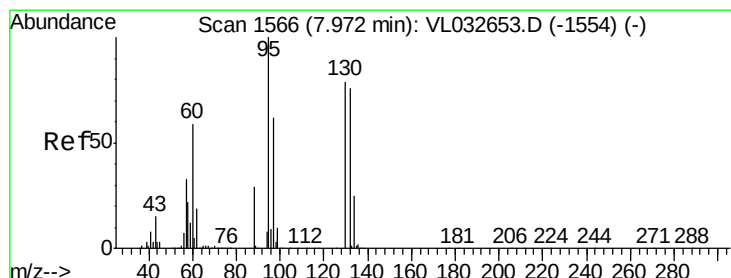
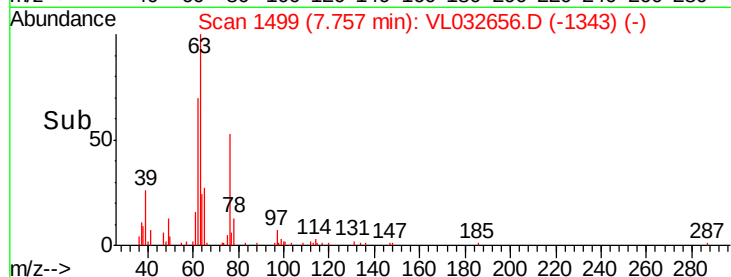
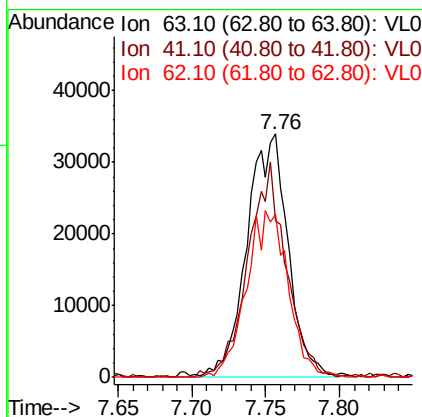
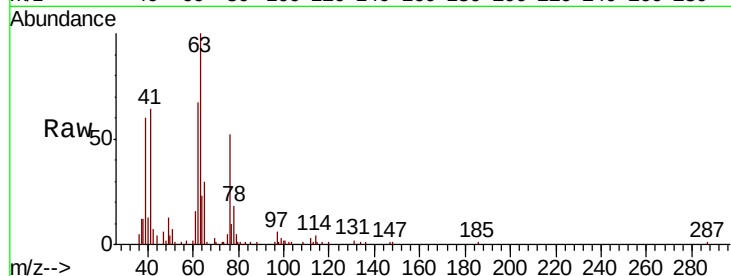
ClientSampleId :

VSTDIC0.5

Tot Ion:	63	Resp:	65709
Ion	Ratio	Lower	Upper
63	100		
41	64.2	56.2	84.4
62	66.8	54.4	81.6

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#40

1,4-Dioxane

Concen: 0.455 ppbv m

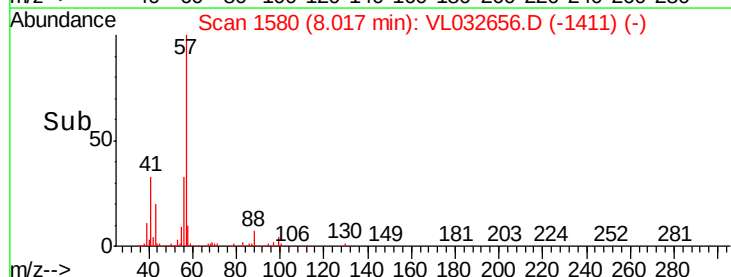
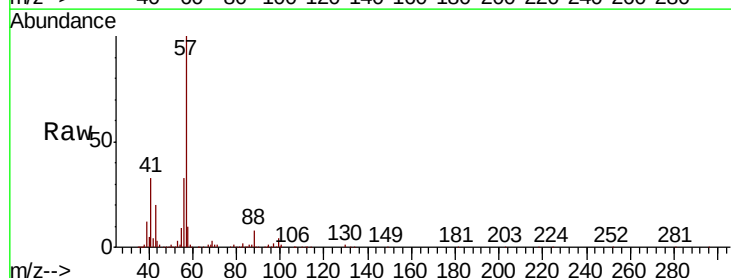
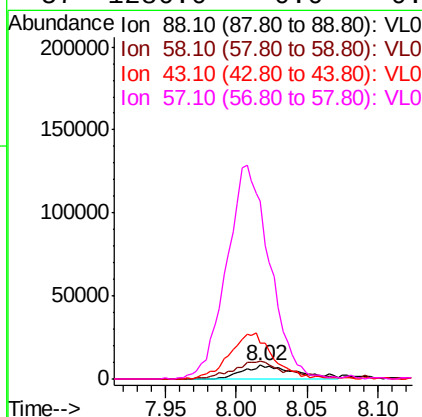
RT: 8.02 min Scan# 1580

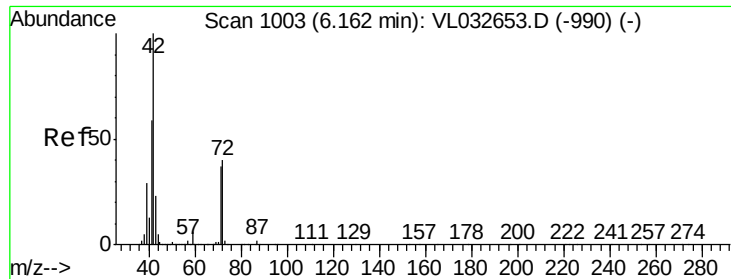
Delta R.T. 0.04 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion:	88	Resp:	21258
Ion	Ratio	Lower	Upper
88	100		
58	0.0	104.0	156.0#
43	0.0	0.0	0.0
57	1286.0	0.0	0.0#





#41

Tetrahydrofuran

Concen: 0.447 ppbv

RT: 6.19 min Scan# 1012

Delta R.T. 0.03 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

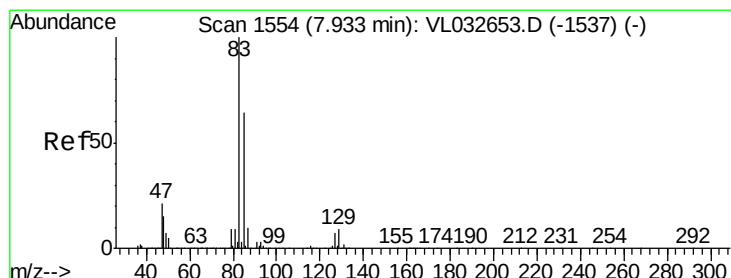
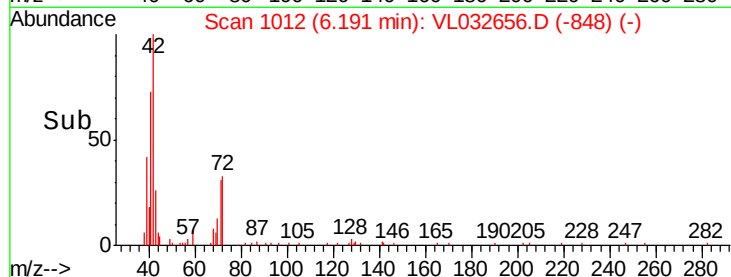
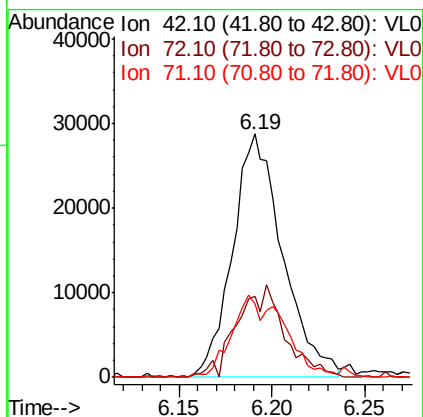
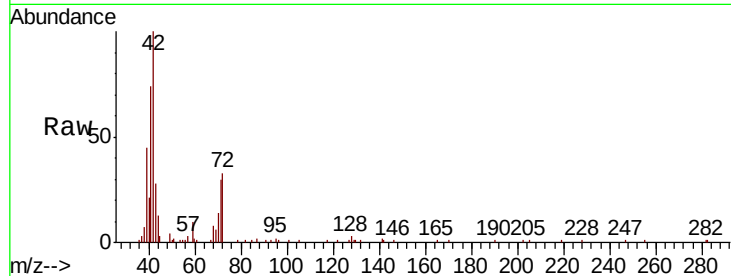
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.2	32.4	48.6
71	36.6	31.3	46.9

Manual Integrations
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#42

Bromodichloromethane

Concen: 0.482 ppbv

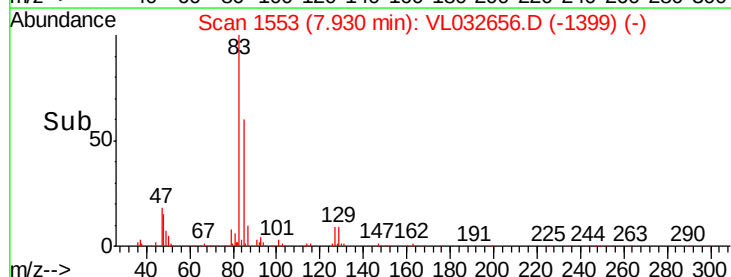
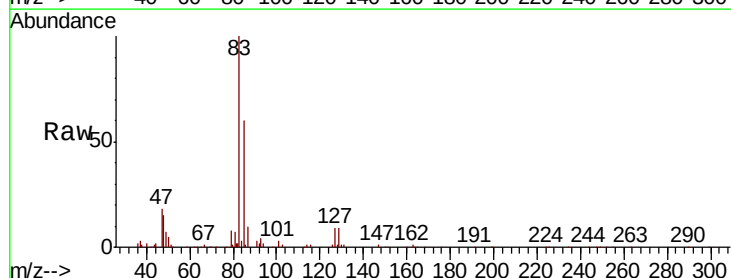
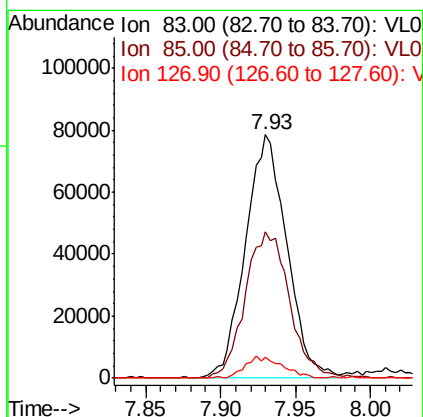
RT: 7.93 min Scan# 1553

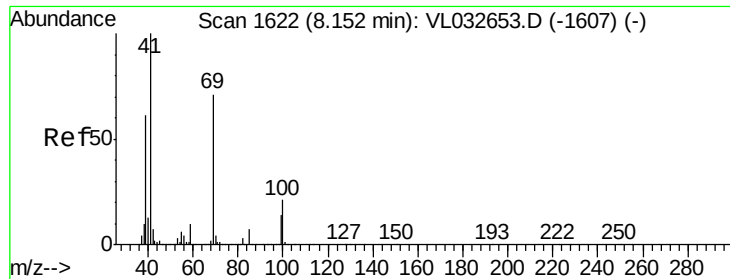
Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.3	52.4	78.6
127	8.7	6.1	9.1





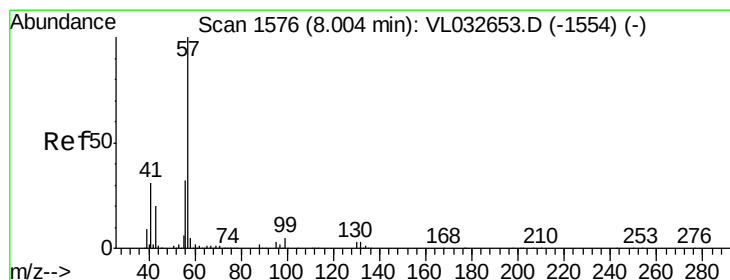
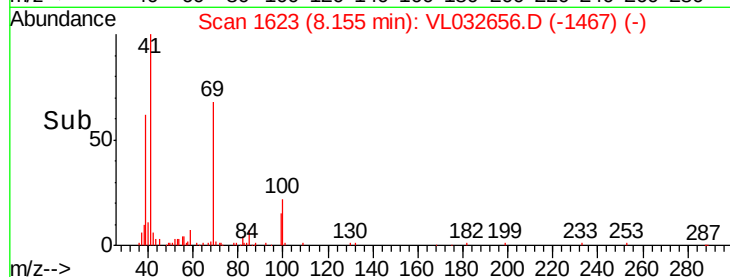
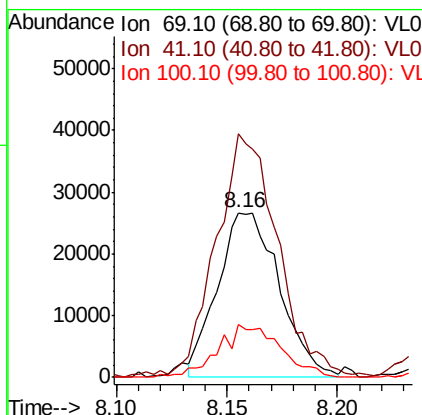
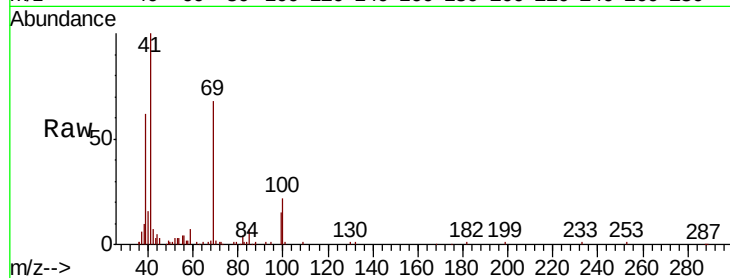
#43
Methyl Methacrylate
Concen: 0.399 ppbv
RT: 8.16 min Scan# 1623
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ion	Ratio	Lower	Upper
69	100			
41	149.7	113.2	169.8	
100	32.6	24.4	36.6	

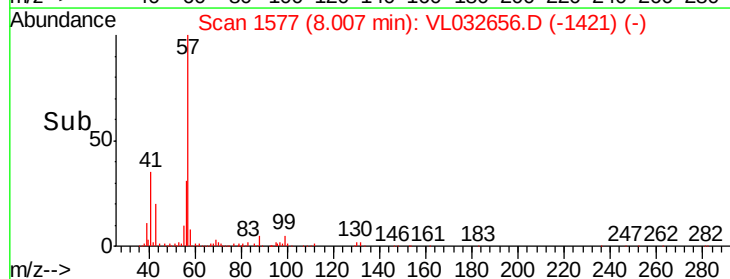
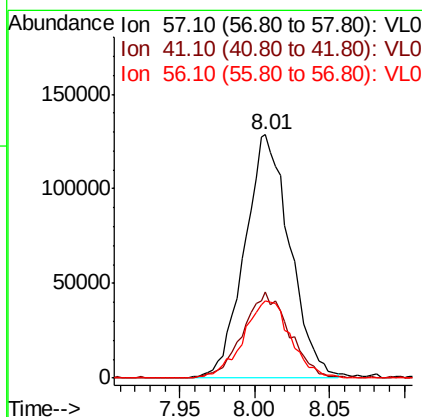
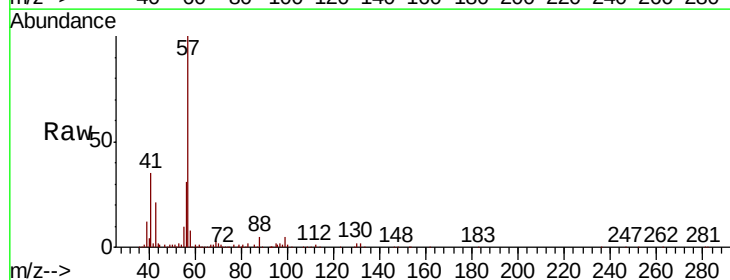
Manual Integrations
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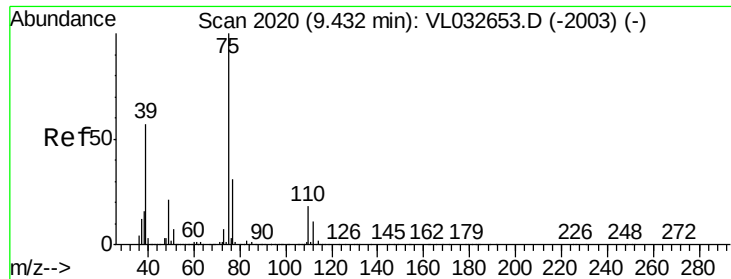
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 0.460 ppbv
RT: 8.01 min Scan# 1577
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion	Ion	Ratio	Lower	Upper
57	100			
41	36.3	24.7	37.1	
56	33.5	25.0	37.4	





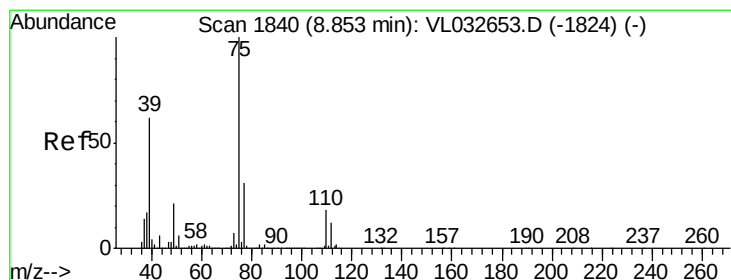
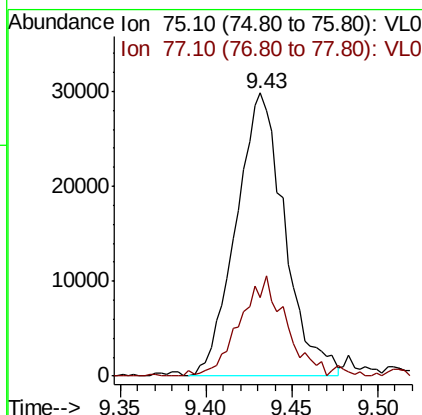
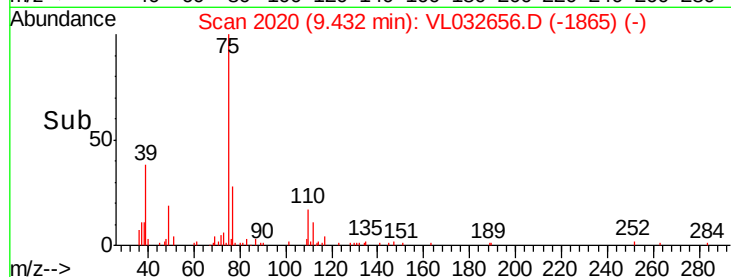
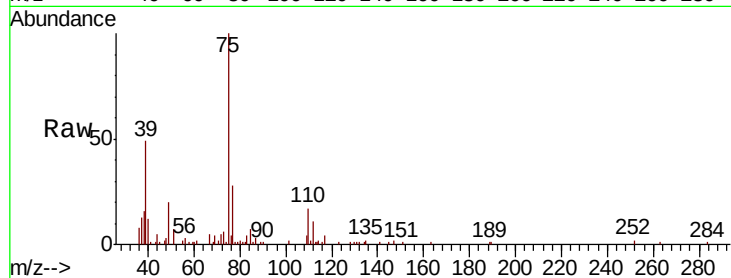
#45
 t-1,3-Dichloropropene
 Concen: 0.348 ppbv
 RT: 9.43 min Scan# 2020
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
75	100		
77	27.9	25.3	37.9

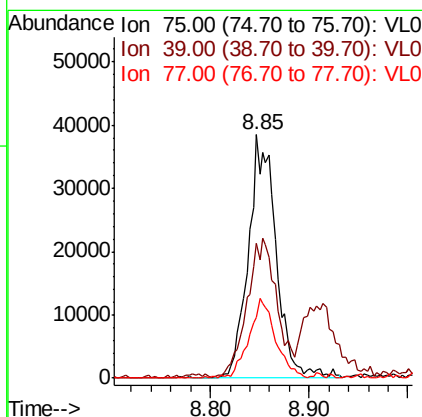
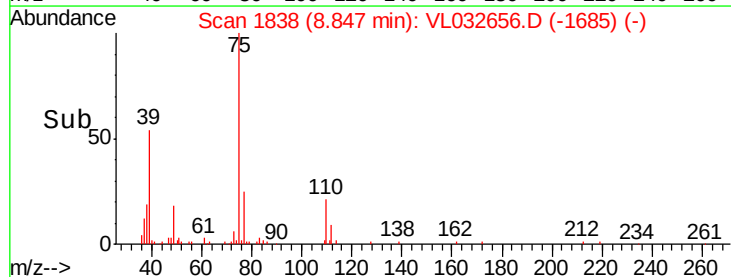
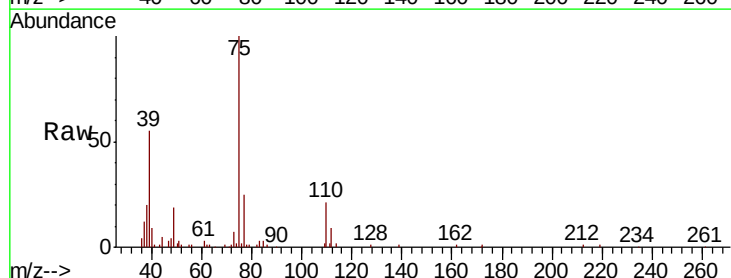
Manual Integrations
 APPROVED

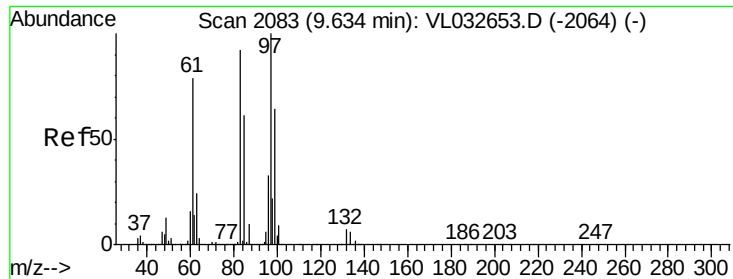
MMDadoda
 10/24/2018 12:04:35 PM



#46
 cis-1,3-Dichloropropene
 Concen: 0.395 ppbv m
 RT: 8.85 min Scan# 1838
 Delta R.T. -0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
75	100		
39	55.2	50.9	76.3
77	25.0	25.8	38.6#





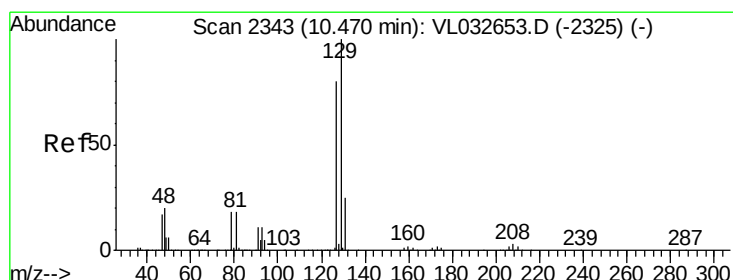
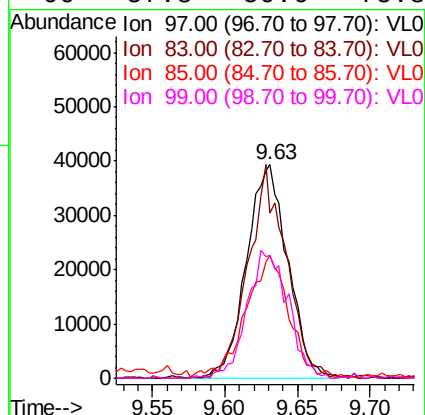
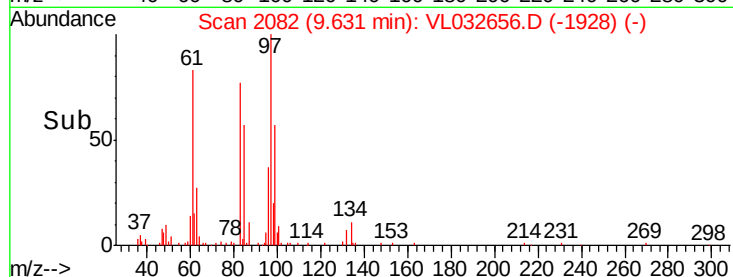
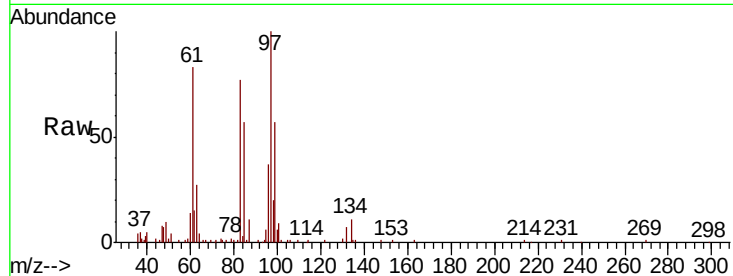
#47
 1,1,2-Trichloroethane
 Concen: 0.483 ppbv
 RT: 9.63 min Scan# 2082
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	97	Resp:	78001
Ion	Ratio	Lower	Upper
97	100		
83	77.6	73.5	110.3
85	57.0	45.8	68.6
99	57.8	50.6	75.8

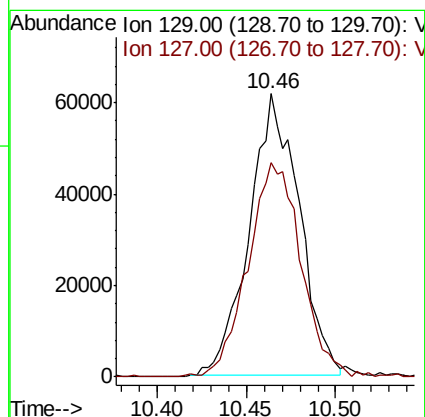
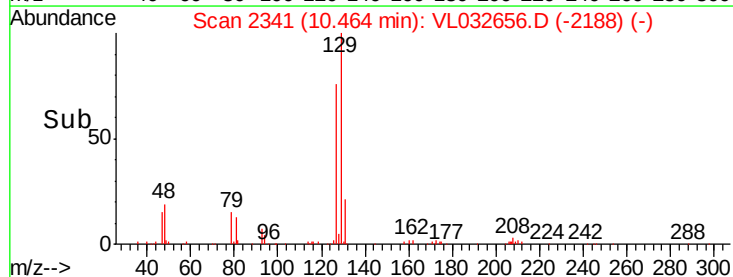
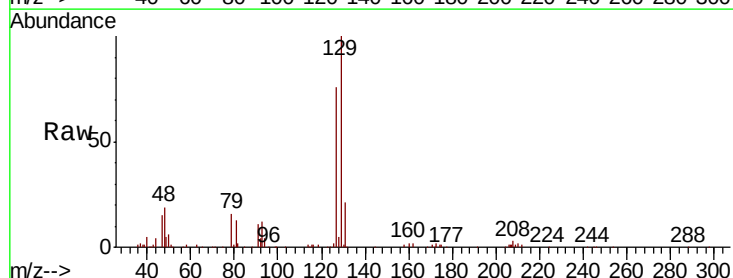
Manual Integrations
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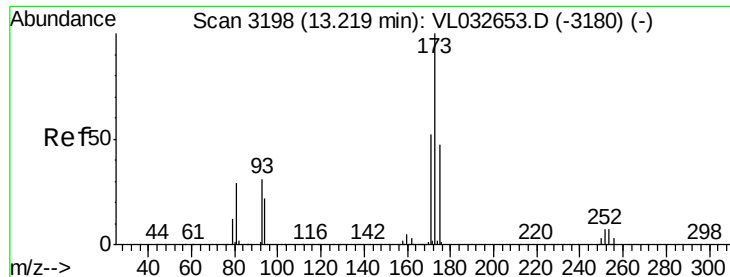
MMDadoda
 10/24/2018 12:04:35 PM



#48
 Dibromochloromethane
 Concen: 0.439 ppbv
 RT: 10.46 min Scan# 2341
 Delta R.T. -0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion:	129	Resp:	120504
Ion	Ratio	Lower	Upper
129	100		
127	80.9	39.1	117.5





#49

Bromoform

Concen: 0.454 ppbv m

RT: 13.22 min Scan# 3199

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:173 Resp: 94030

Ion Ratio Lower Upper

173 100

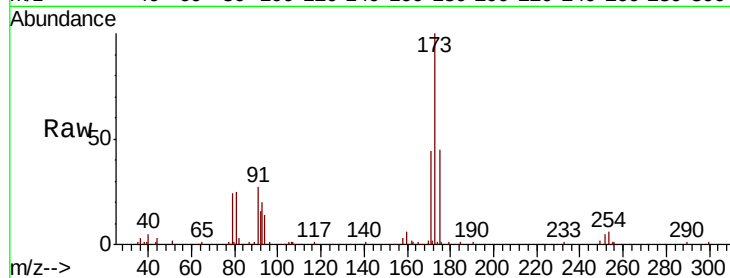
175 51.1 39.0 58.4

171 51.4 42.2 63.2

Manual Integrations
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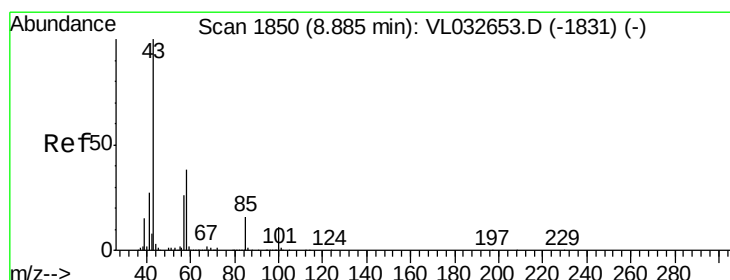
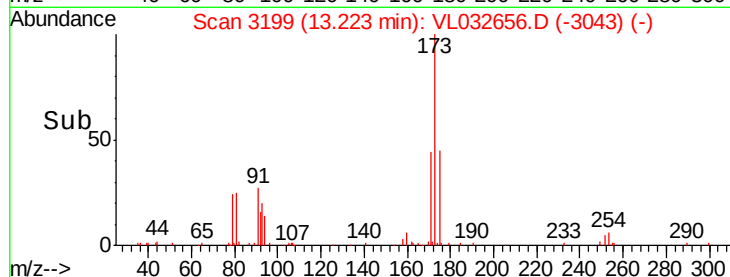
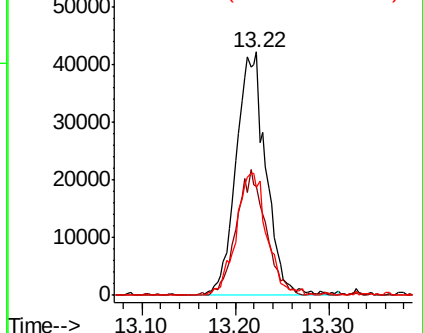
10/24/2018 12:04:35 PM



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: 0.452 ppbv

RT: 8.91 min Scan# 1858

Delta R.T. 0.03 min

Lab File: VL032656.D

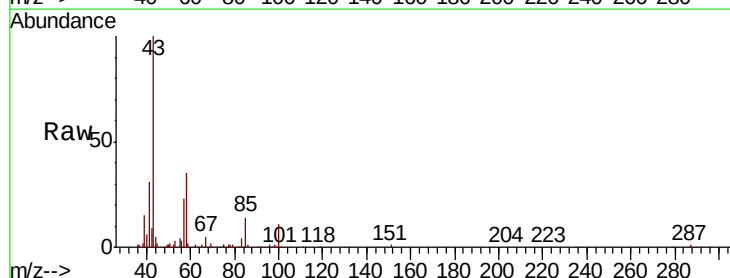
Acq: 18 Oct 2018 18:02

Tgt Ion: 43 Resp: 151309

Ion Ratio Lower Upper

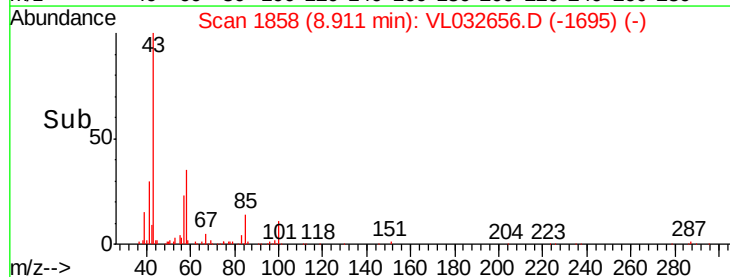
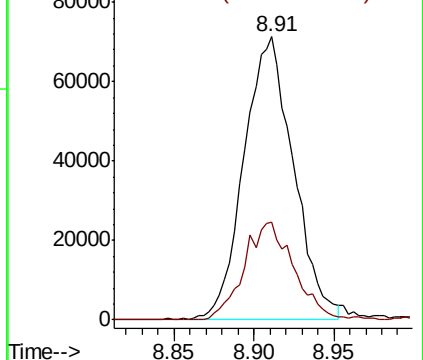
43 100

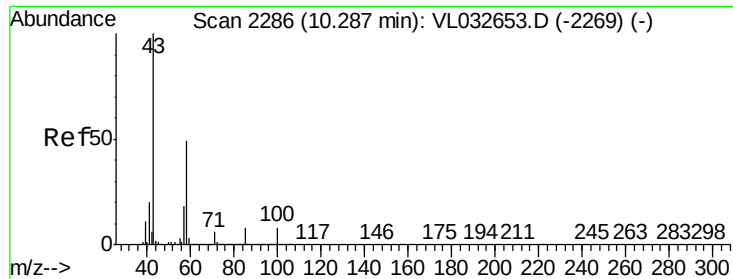
58 34.9 29.7 44.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





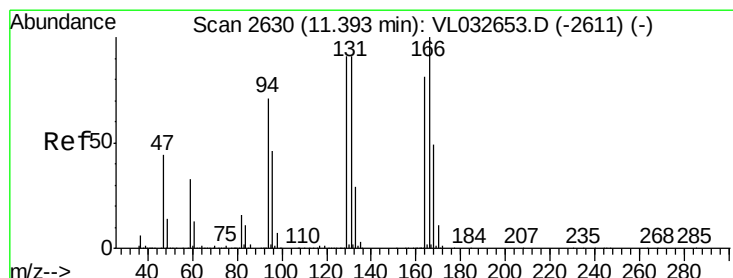
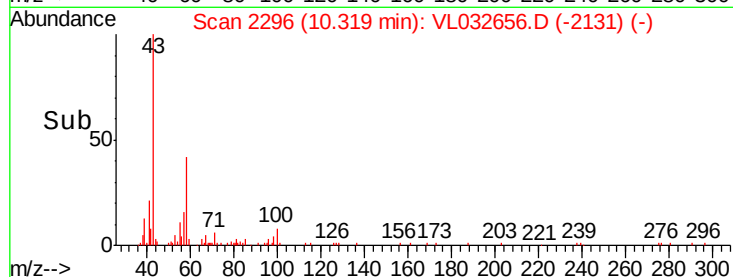
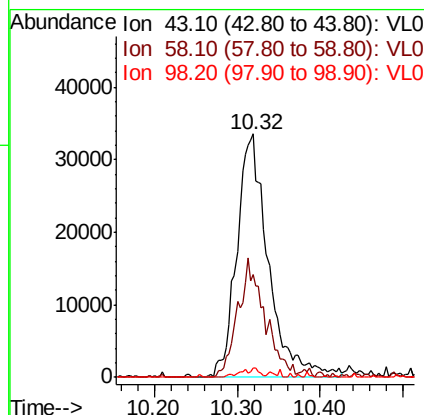
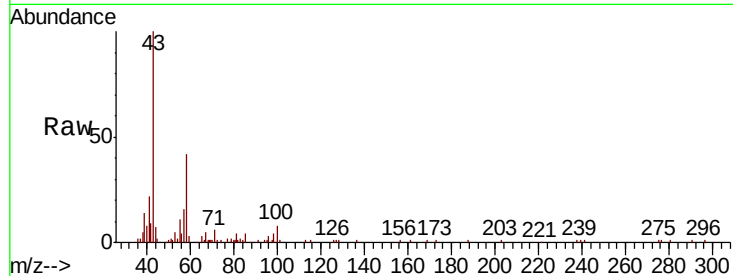
#51
2-Hexanone
Concen: 0.337 ppbv m
RT: 10.32 min Scan# 2296
Delta R.T. 0.03 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
43	100		
58	43.4	40.4	60.6
98	2.6	0.4	0.6#

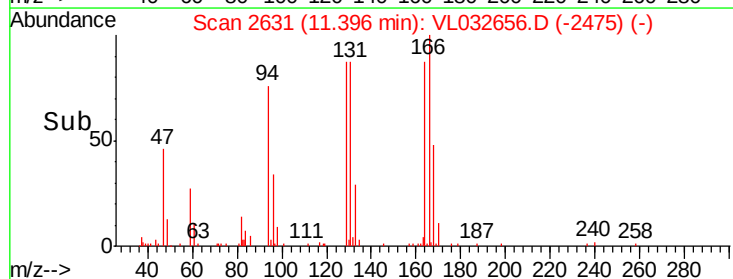
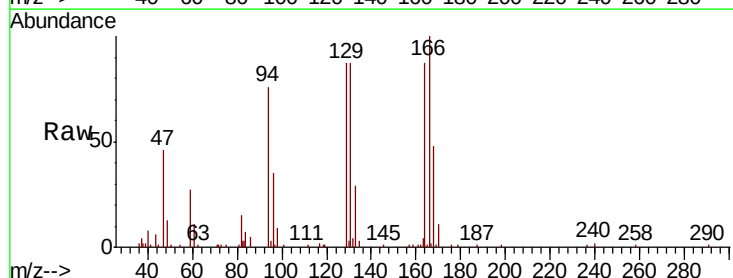
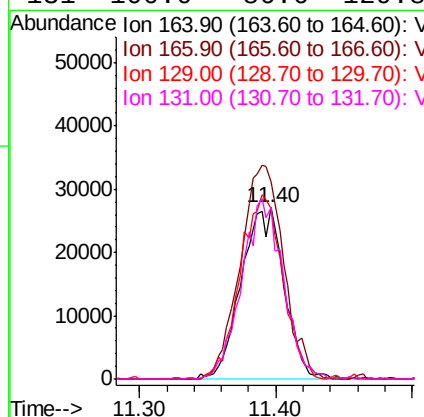
Manual Integrations
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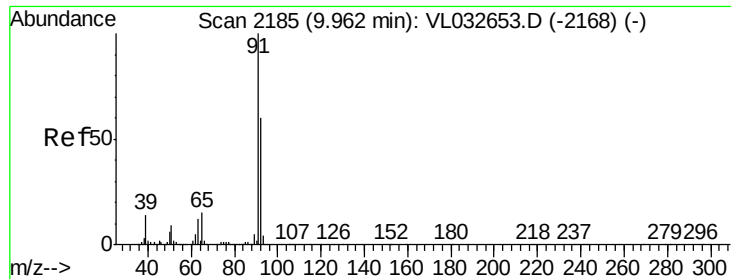
MMDadoda
10/24/2018 12:04:35 PM



#52
Tetrachloroethene
Concen: 0.541 ppbv m
RT: 11.40 min Scan# 2631
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
164	100		
166	115.3	100.5	150.7
129	99.9	90.0	135.0
131	100.0	86.6	129.8





#53

Toluene

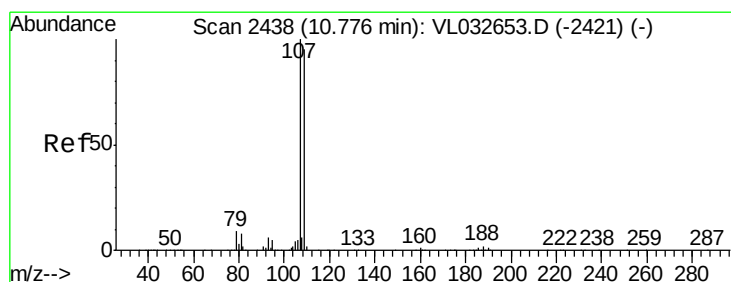
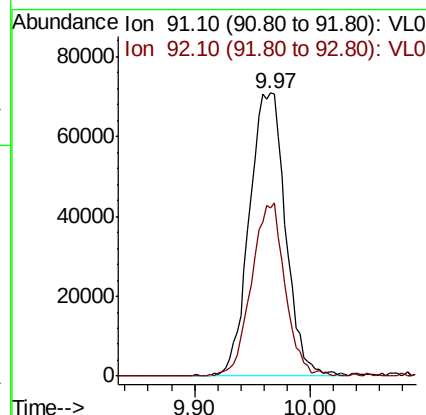
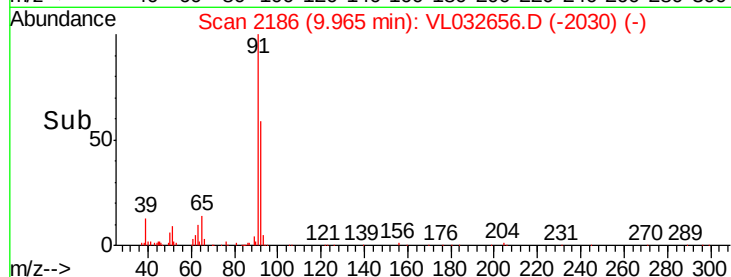
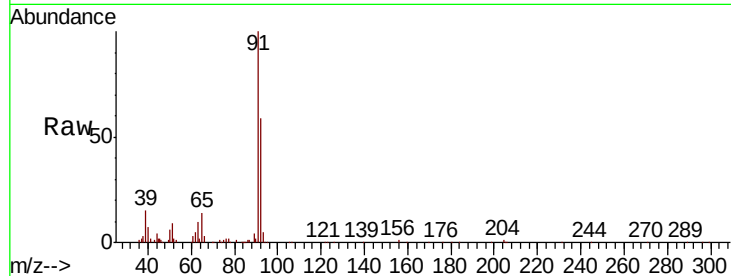
Concen: 0.406 ppbv m
RT: 9.97 min Scan# 2186
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 153636
Ion Ratio Lower Upper
91 100
92 0.0 48.4 72.6#

Manual Integrations
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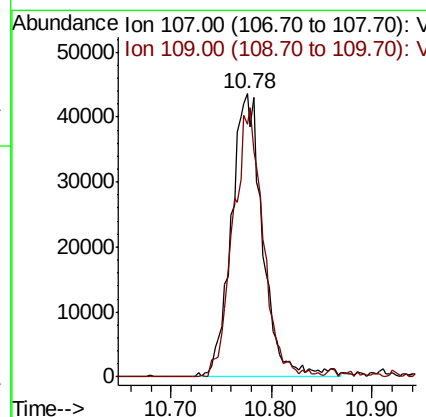
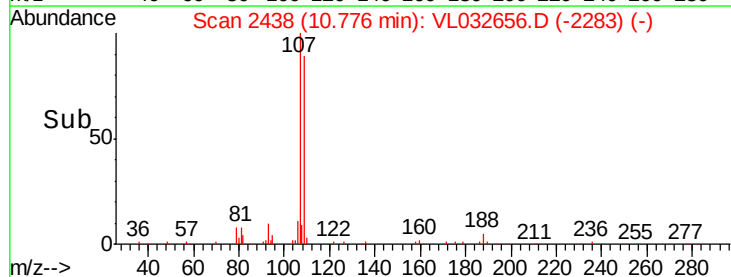
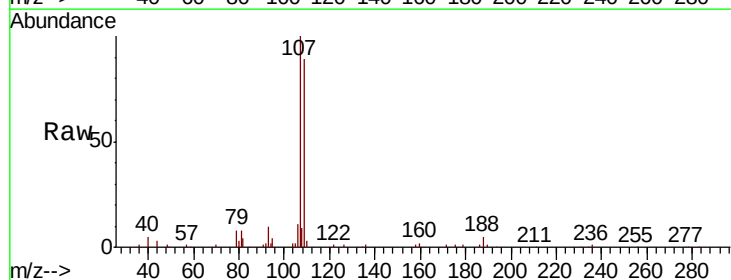


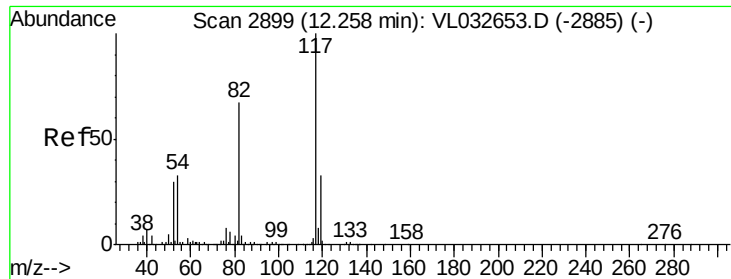
#54

1,2-Dibromoethane

Concen: 0.412 ppbv m
RT: 10.78 min Scan# 2438
Delta R.T. -0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion: 107 Resp: 95233
Ion Ratio Lower Upper
107 100
109 89.1 75.3 112.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.26 min Scan# 2899

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:117 Resp: 3926748

Ion Ratio Lower Upper

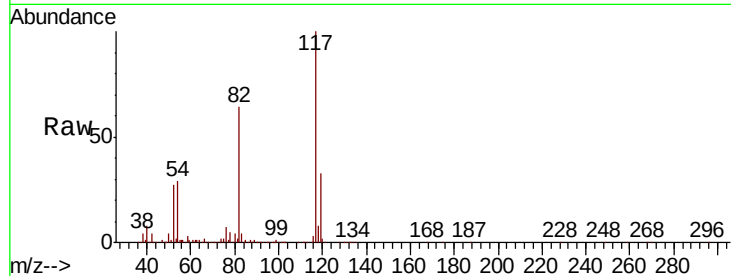
117 100

82 63.4 52.7 79.1

119 33.7 26.7 40.1

Manual Integrations
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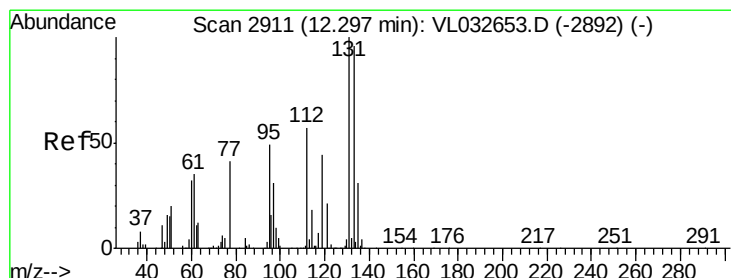
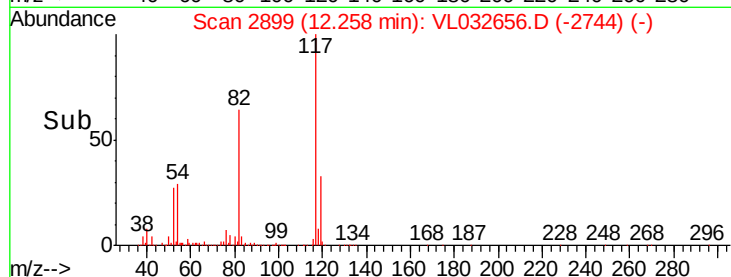
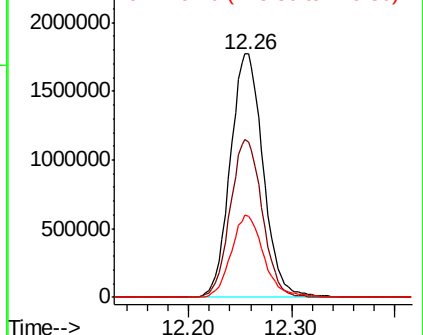
MMDadoda
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#56

1,1,1,2-Tetrachloroethane

Concen: 0.519 ppbv

RT: 12.30 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

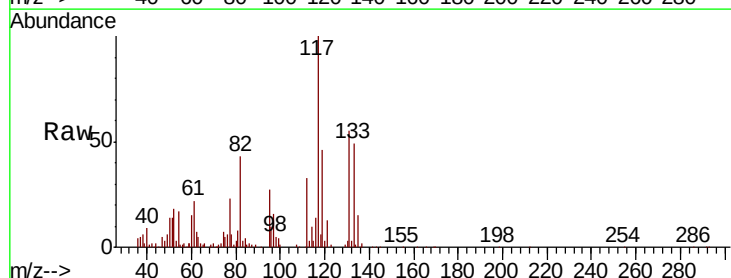
Tgt Ion:131 Resp: 93535

Ion Ratio Lower Upper

131 100

133 95.2 75.4 113.2

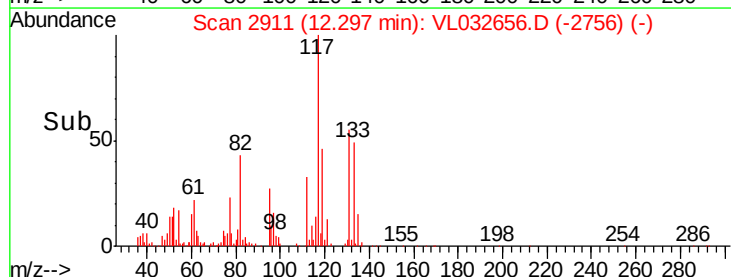
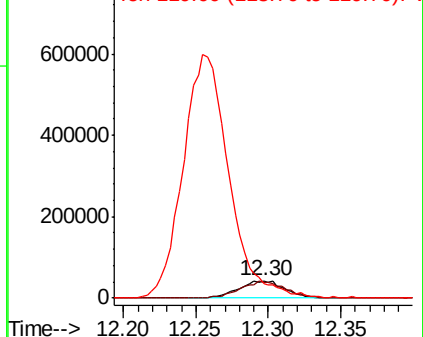
119 1416.7 49.1 73.7#

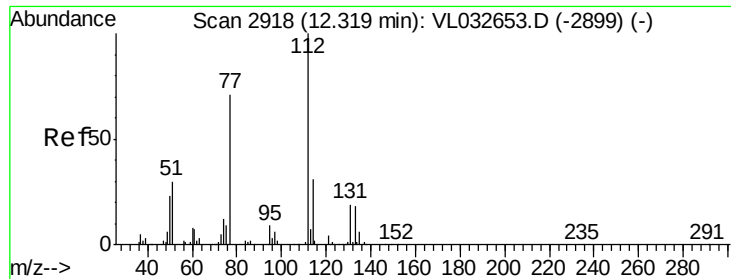


Abundance Ion 131.00 (130.70 to 131.70): V

Ion 133.00 (132.70 to 133.70): V

Ion 119.00 (118.70 to 119.70): V





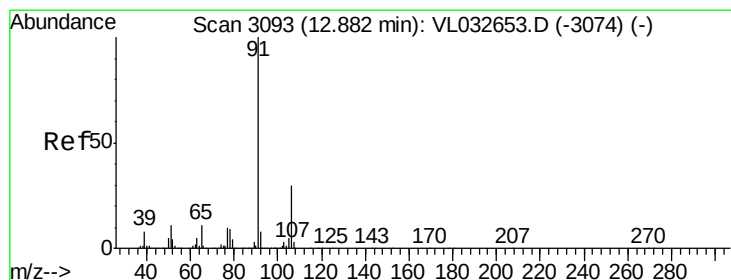
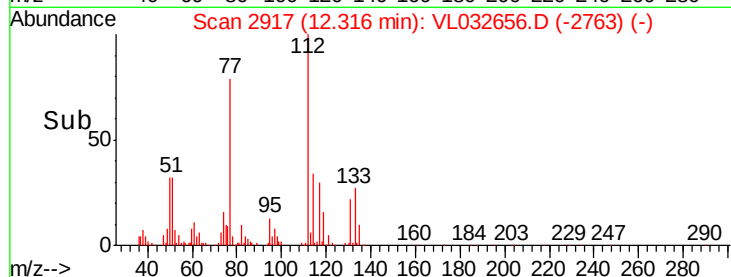
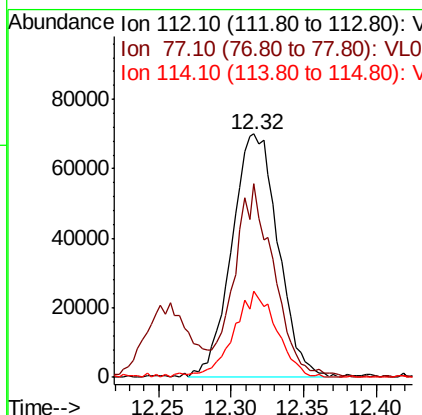
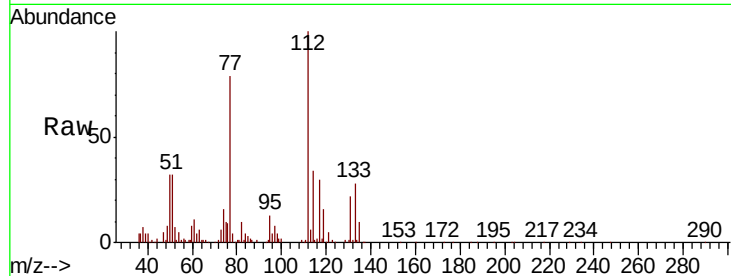
#57
Chlorobenzene
Concen: 0.521 ppbv
RT: 12.32 min Scan# 2917
Delta R.T. -0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
112	100		
77	78.1	56.8	85.2
114	35.6	30.3	37.1

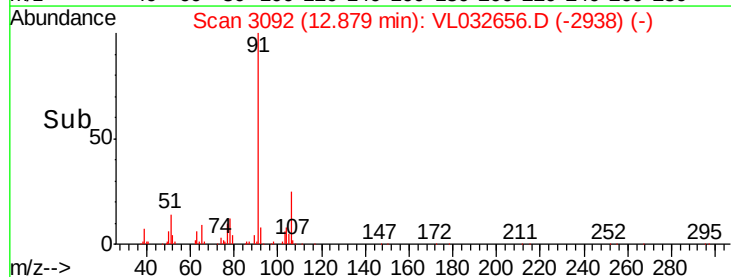
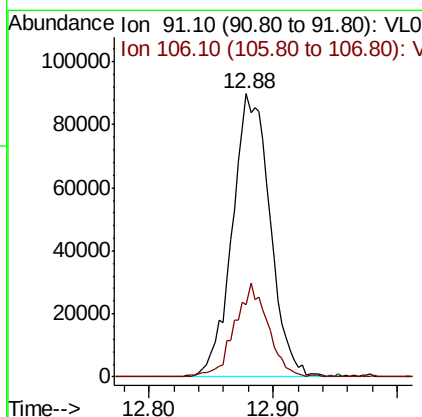
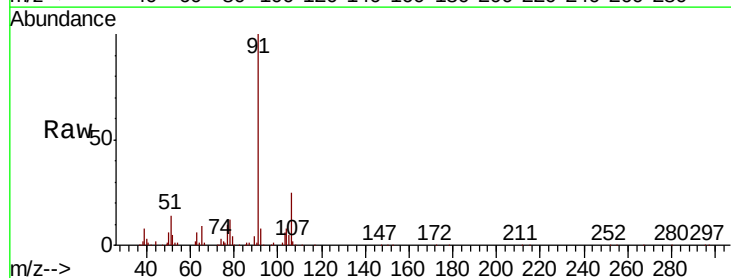
Manual Integrations
APPROVED

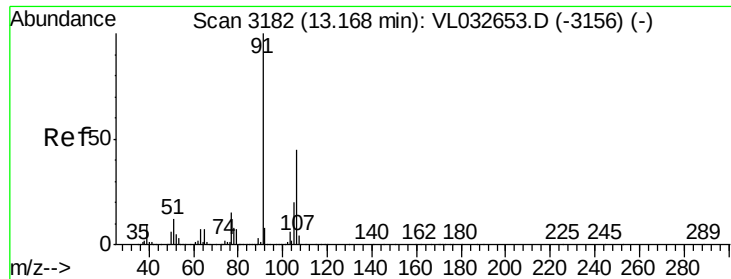
MMDadoda
10/24/2018 12:04:35 PM



#58
Ethyl Benzene
Concen: 0.431 ppbv m
RT: 12.88 min Scan# 3092
Delta R.T. -0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.4	24.2	36.2





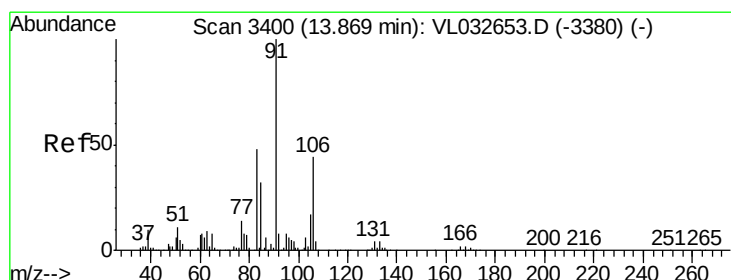
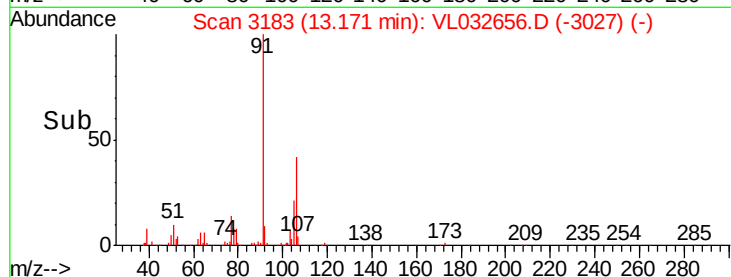
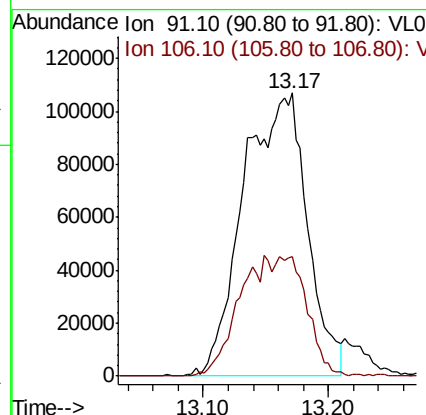
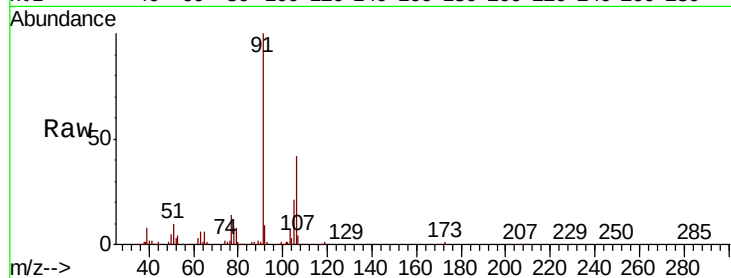
#59
m/p-Xylene
Concen: 0.959 ppbv m
RT: 13.17 min Scan# 3183
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 377368
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#

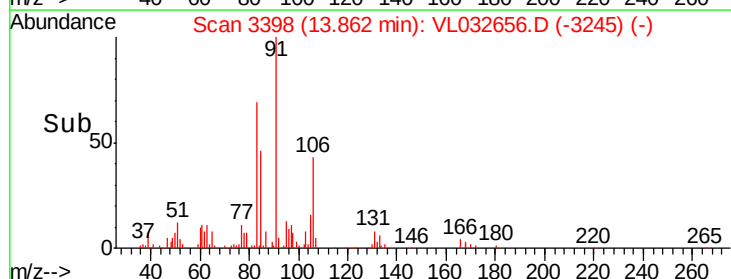
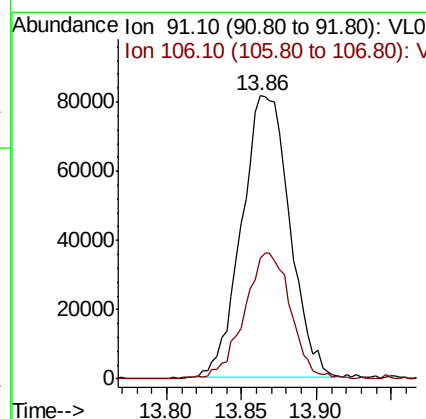
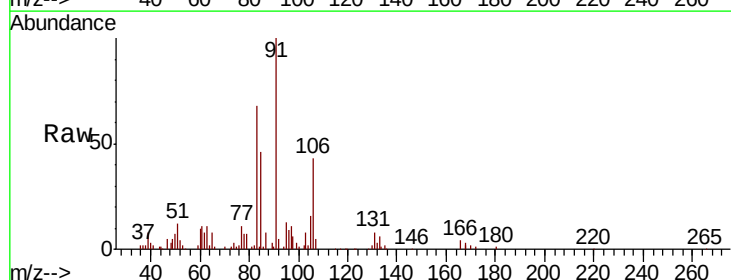
Manual Integrations
APPROVED

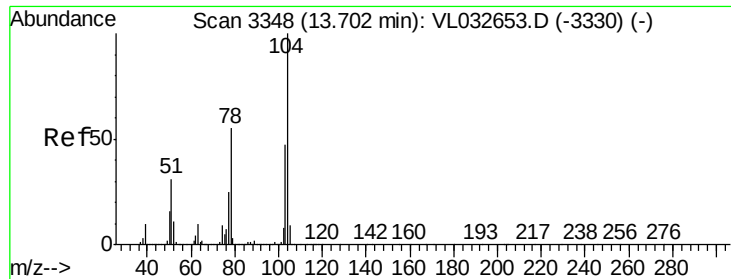
MMDadoda
10/24/2018 12:04:35 PM



#60
o-Xylene
Concen: 0.464 ppbv
RT: 13.86 min Scan# 3398
Delta R.T. -0.01 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion: 91 Resp: 182108
Ion Ratio Lower Upper
91 100
106 43.4 22.1 66.1





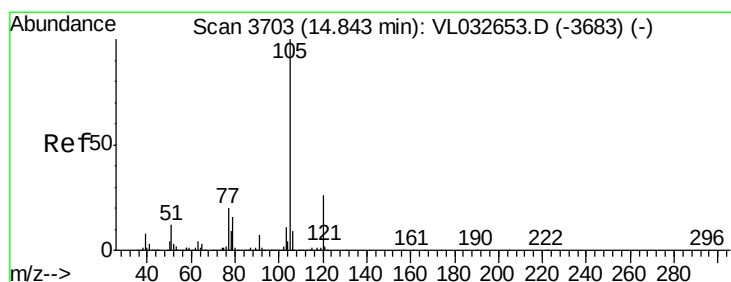
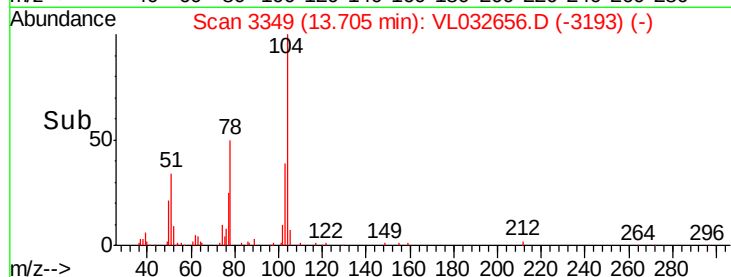
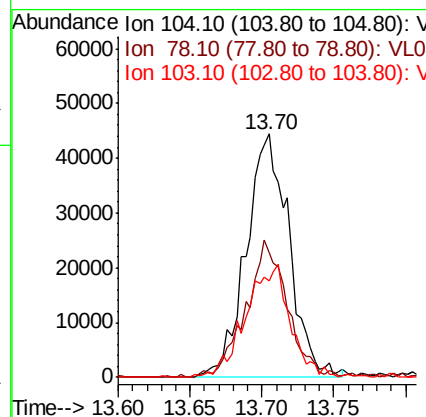
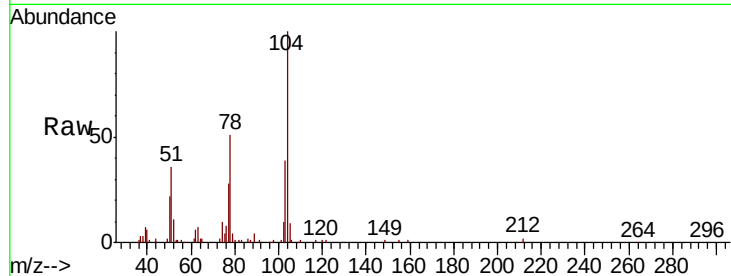
#61
Stvrene
Concen: 0.388 ppbv m
RT: 13.70 min Scan# 3349
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	56.0	42.8	64.2
103	47.8	37.4	56.0

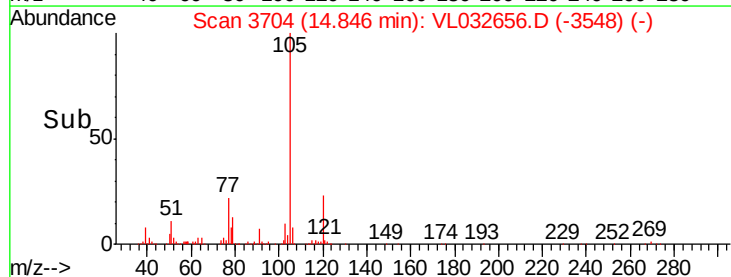
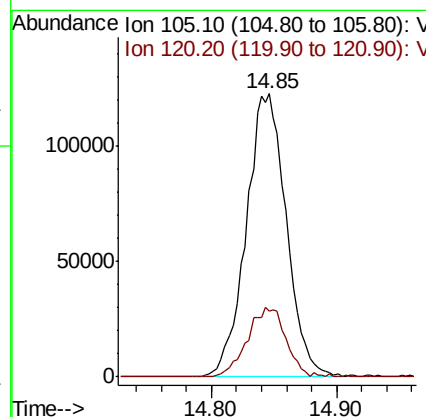
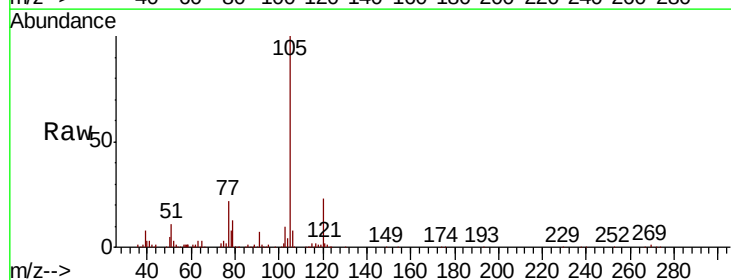
Manual Integrations
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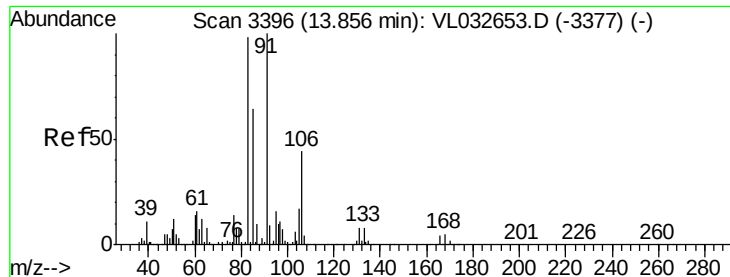
MMDadoda
10/24/2018 12:04:35 PM



#62
Isopropylbenzene
Concen: 0.488 ppbv
RT: 14.85 min Scan# 3704
Delta R.T. 0.00 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.7	20.5	30.7





#63

1,1,2,2-Tetrachloroethane

Concen: 0.467 ppbv

RT: 13.86 min Scan# 3396

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

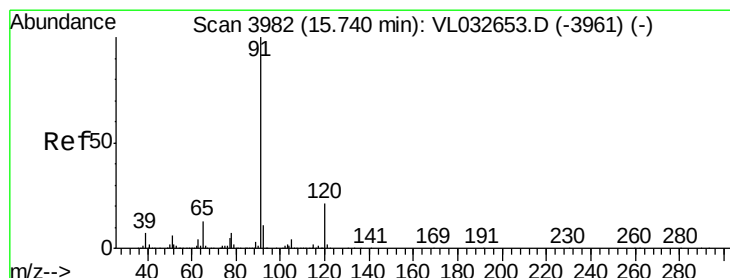
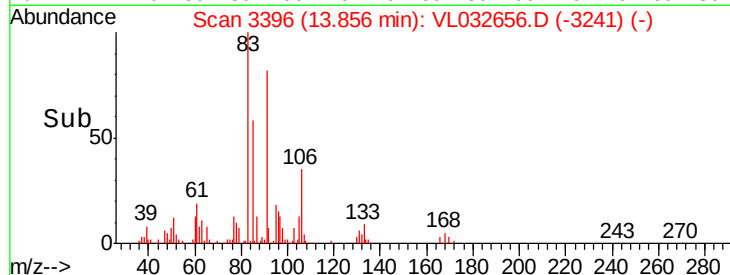
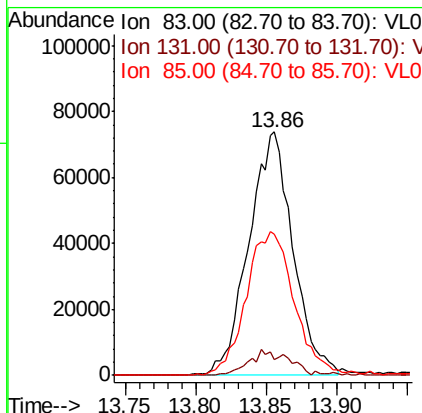
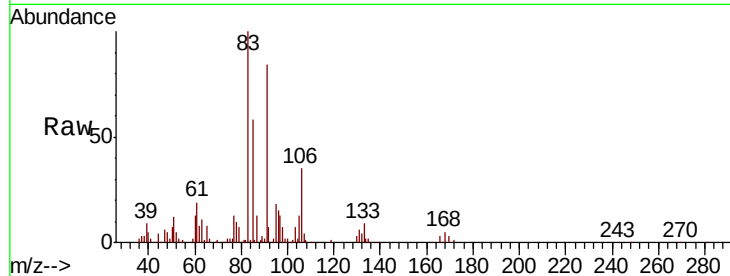
ClientSampleId :

VSTDIC0.5

Tot Ion:	83	Resp:	161707
Ion Ratio	Lower	Upper	
83	100		
131	9.9	4.3	12.9
85	65.1	32.3	96.9

Manual Integrations
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#64

n-propylbenzene

Concen: 0.437 ppbv

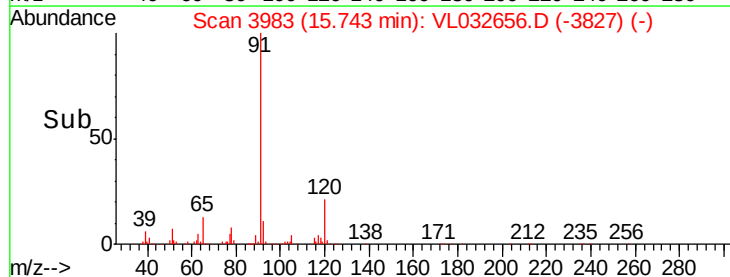
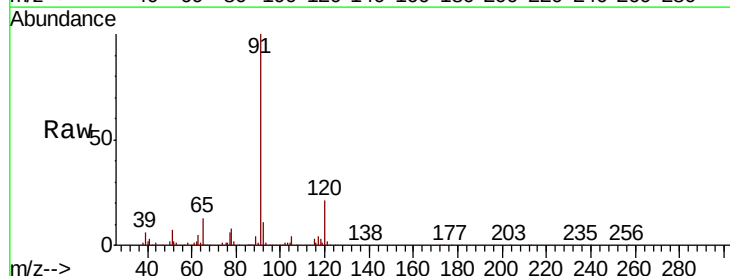
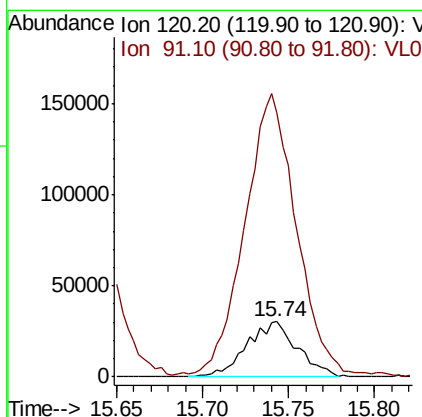
RT: 15.74 min Scan# 3983

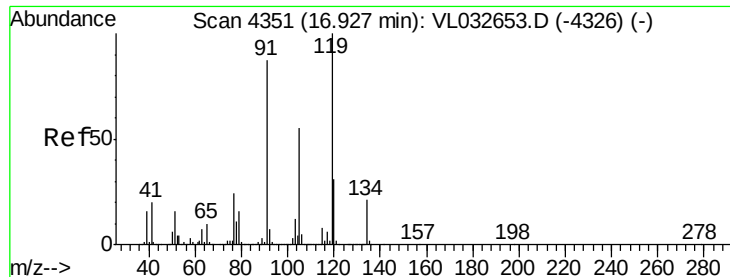
Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion:	120	Resp:	61824
Ion Ratio	Lower	Upper	
120	100		
91	534.9	390.2	585.2





#65

tert-Butylbenzene

Concen: 0.455 ppbv

RT: 16.93 min Scan# 4351

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

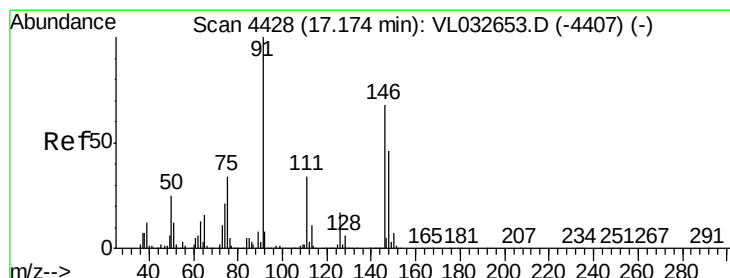
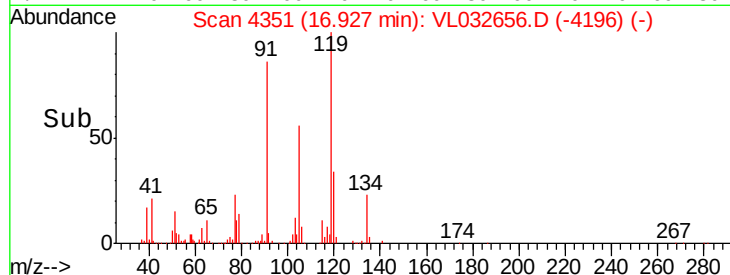
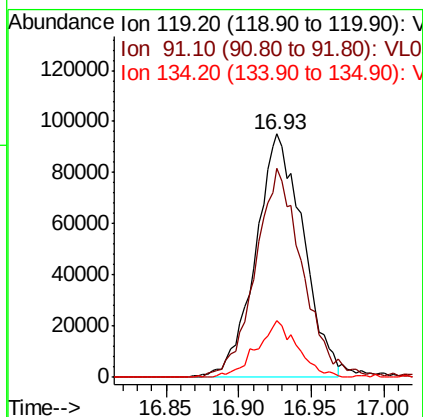
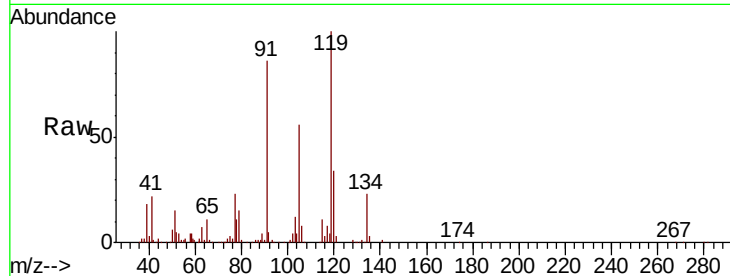
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	215938
Ion Ratio	Lower	Upper	
119	100		
91	86.6	67.8	101.8
134	20.1	15.8	23.8

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.363 ppbv

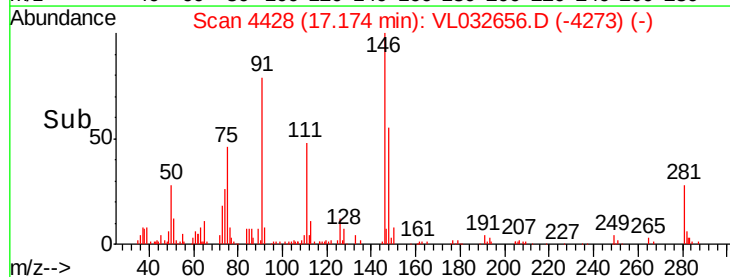
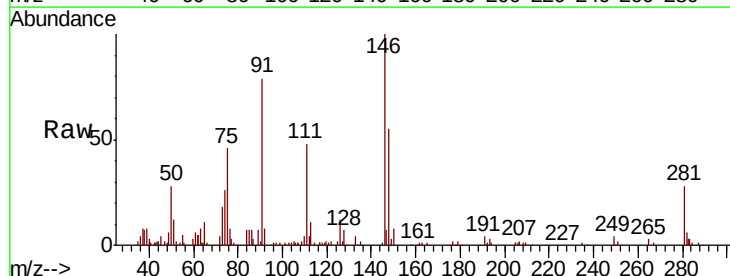
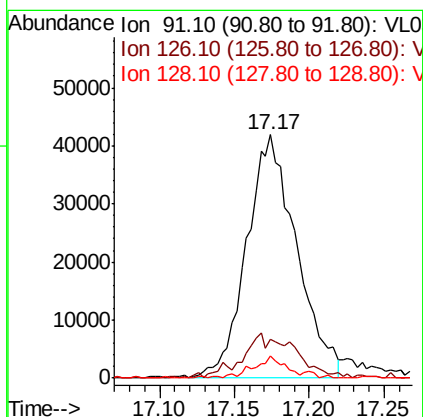
RT: 17.17 min Scan# 4428

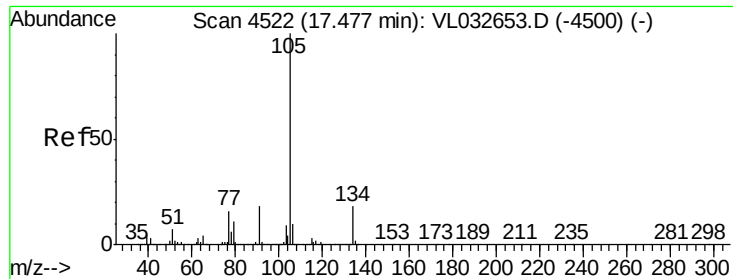
Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion:	91	Resp:	97171
Ion Ratio	Lower	Upper	
91	100		
126	20.5	13.9	20.9
128	6.5	4.3	6.5#





#67

sec-Butylbenzene

Concen: 0.441 ppbv m

RT: 17.47 min Scan# 4521

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 314977

Ion Ratio Lower Upper

105 100

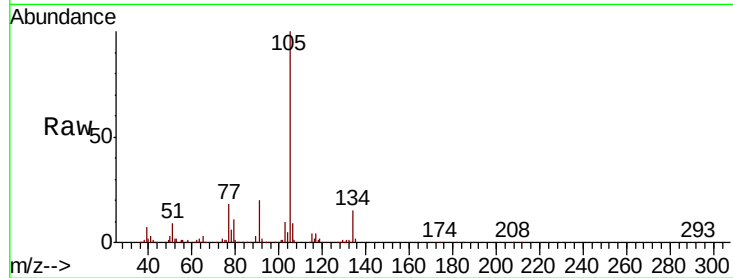
134 17.3 14.2 21.2

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.47

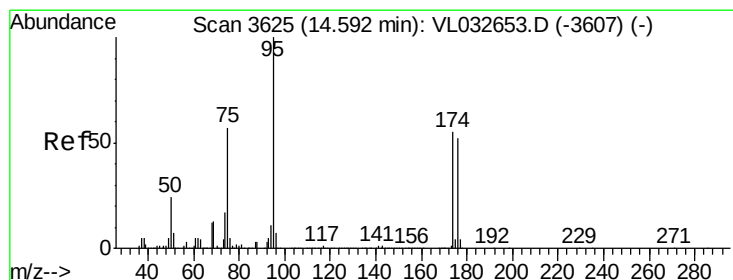
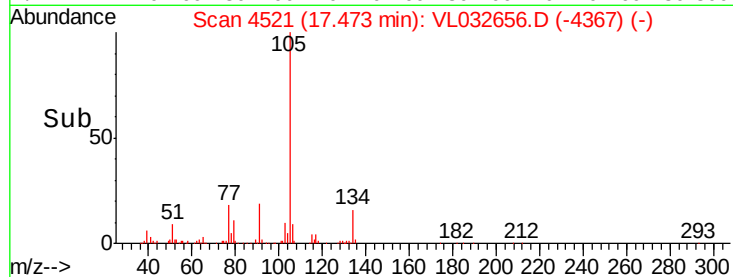
150000

100000

50000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.003 ppbv

RT: 14.59 min Scan# 3625

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

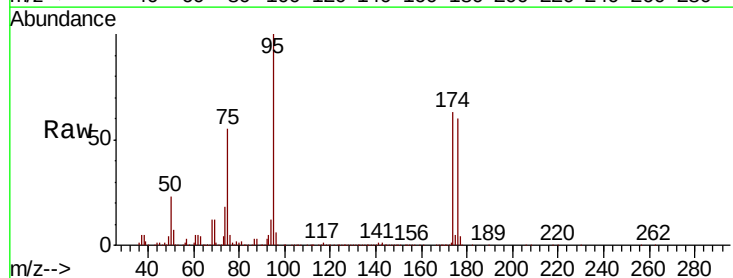
Tgt Ion: 95 Resp: 2957475

Ion Ratio Lower Upper

95 100

174 63.5 46.0 69.0

175 4.5 3.4 5.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

14.59

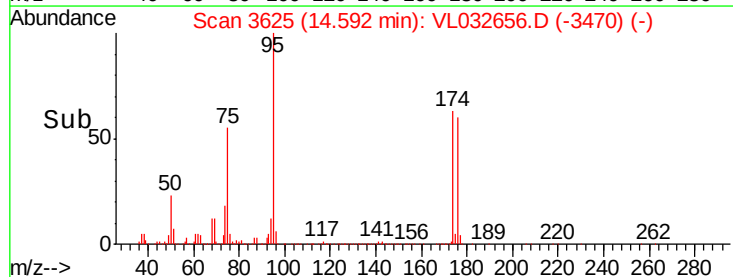
1500000

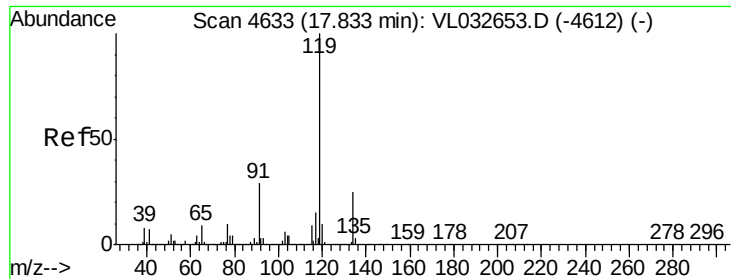
1000000

500000

0

Time-->





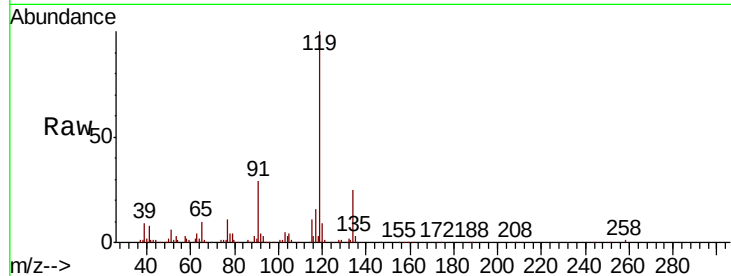
#69
 p-Isopropyltoluene
 Concen: 0.425 ppbv
 RT: 17.83 min Scan# 4633
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC0.5

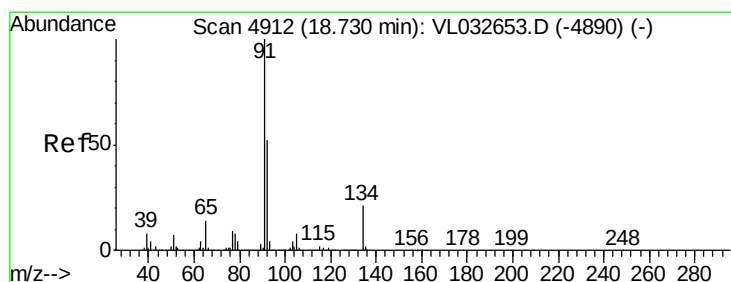
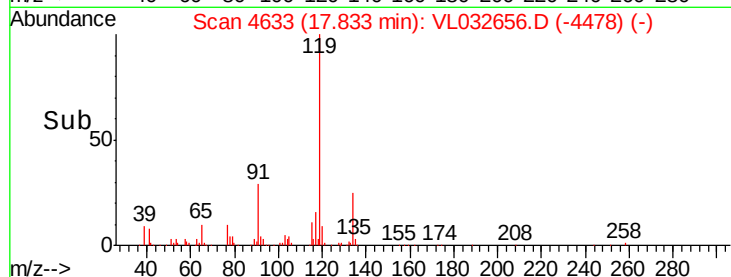
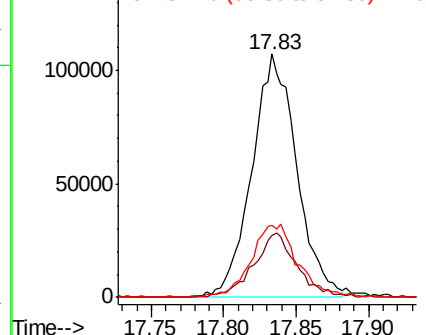
Tot Ion:	119	Resp:	229823
Ion Ratio	Lower	Upper	
119	100		
134	25.7	20.2	30.2
91	31.8	24.0	36.0

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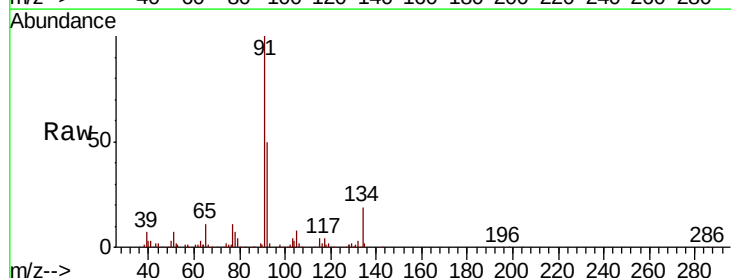


Abundance Ion 119.10 (118.80 to 119.80): V
 Ion 134.20 (133.90 to 134.90): V
 Ion 91.10 (90.80 to 91.80): V

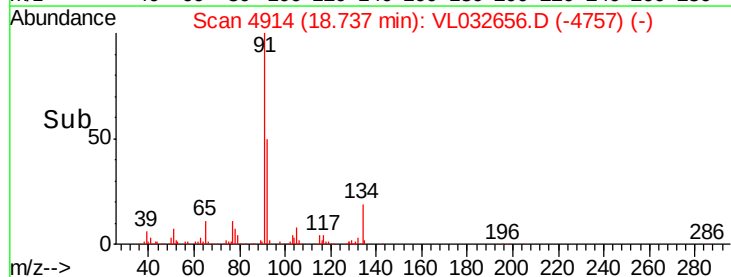
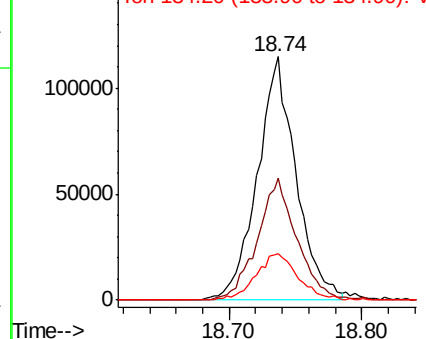


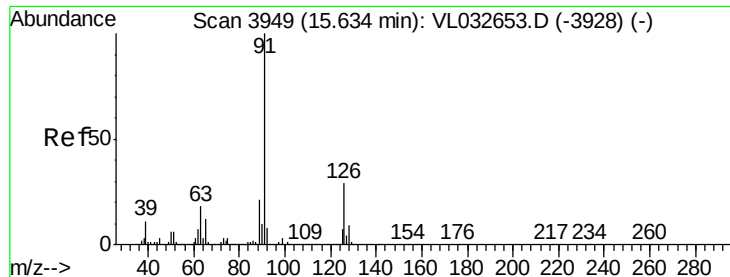
#70
 n-Butylbenzene
 Concen: 0.394 ppbv
 RT: 18.74 min Scan# 4914
 Delta R.T. 0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion:	91	Resp:	234276
Ion Ratio	Lower	Upper	
91	100		
92	51.3	43.0	64.4
134	20.9	17.0	25.6



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: 0.413 ppbv

RT: 15.64 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 170637

Ion Ratio Lower Upper

91 100

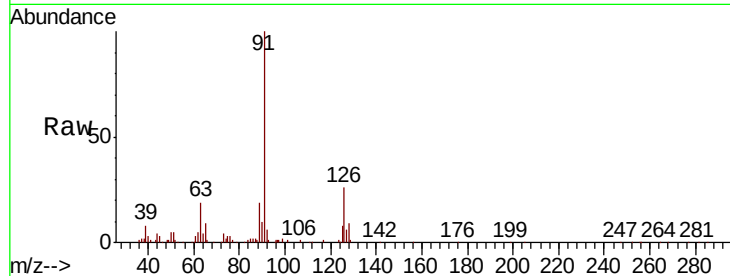
126 29.9 11.8 47.4

Manual Integrations

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Abundance Ion 91.10 (90.80 to 91.80): VL0

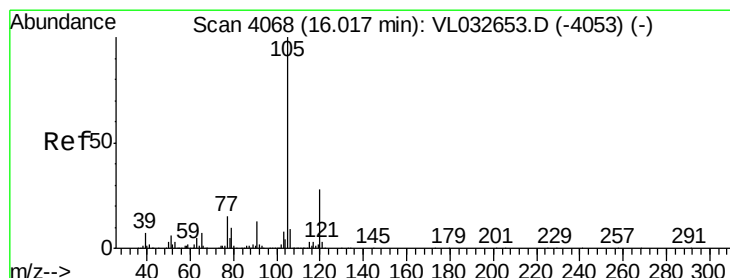
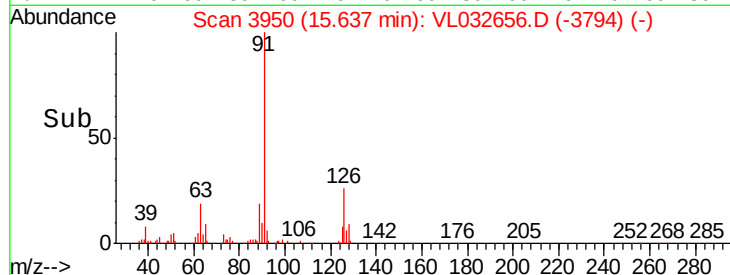
Ion 126.10 (125.80 to 126.80): V

100000

15.64

50000

Time-->



#72

4-Ethyltoluene

Concen: 0.400 ppbv

RT: 16.02 min Scan# 4068

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion: 105 Resp: 169436

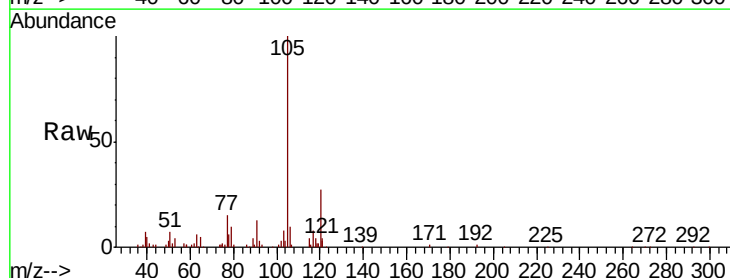
Ion Ratio Lower Upper

105 100

120 29.9 23.7 35.5

91 16.2 10.4 15.6#

77 15.5 11.4 17.2



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

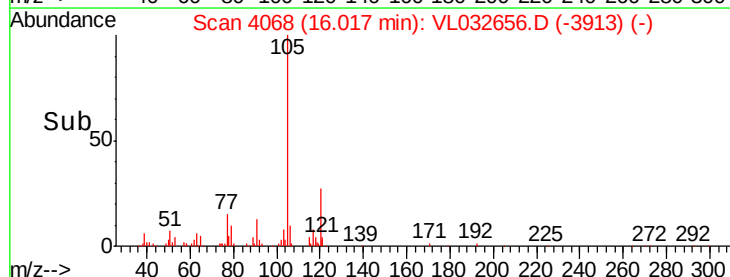
Ion 77.10 (76.80 to 77.80): VL0

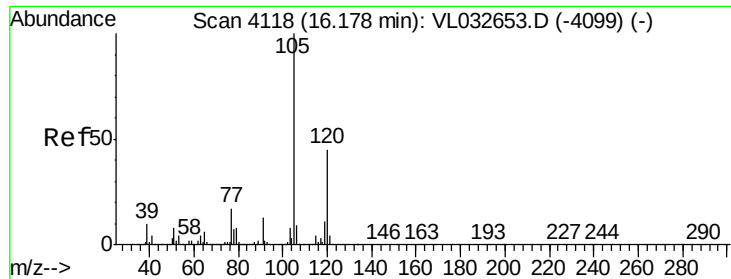
120000

16.02

80000

Time-->





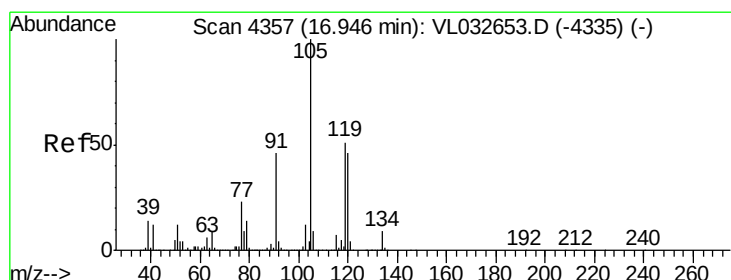
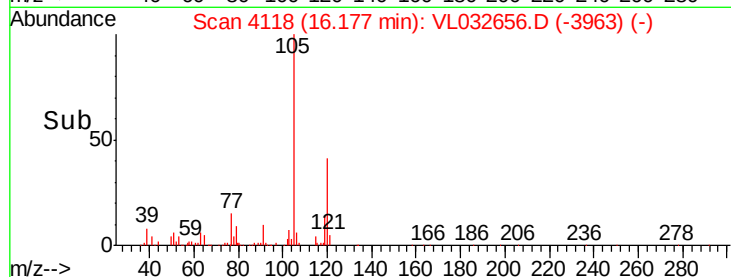
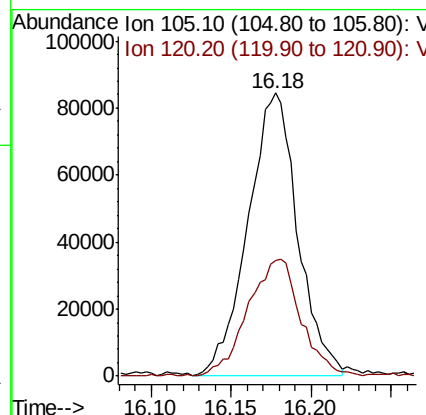
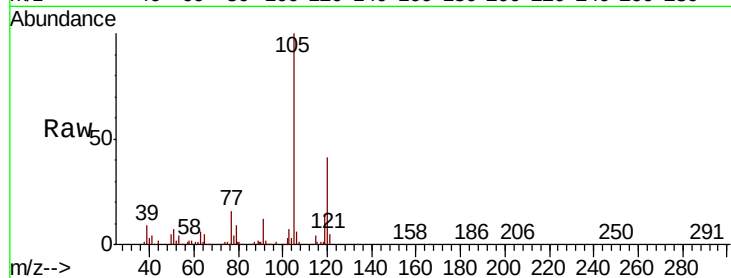
#73
 1,3,5-Trimethylbenzene
 Concen: 0.430 ppbv
 RT: 16.18 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
105	100		
120	40.9	35.4	53.2

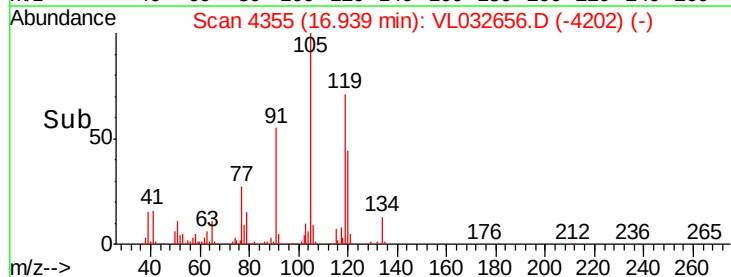
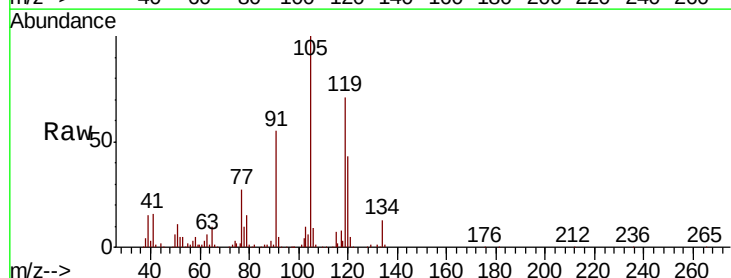
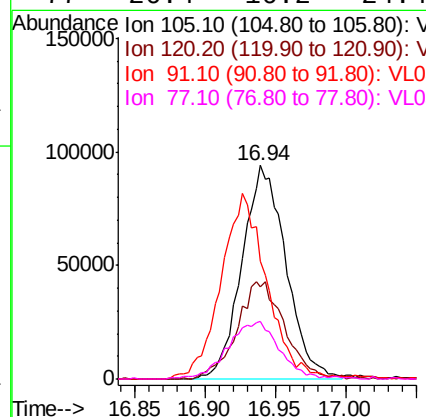
Manual Integrations
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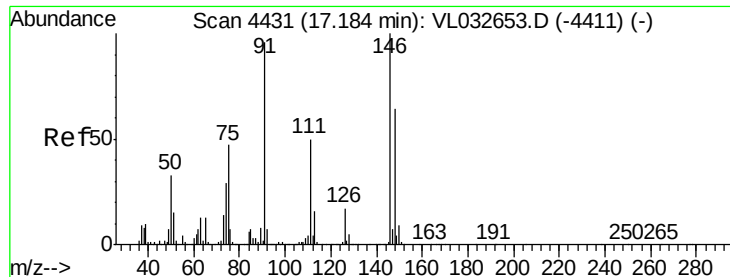
MMDadoda
 10/24/2018 12:04:35 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.442 ppbv
 RT: 16.94 min Scan# 4355
 Delta R.T. -0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	43.4	35.8	53.8
91	53.9	33.2	49.8#
77	26.4	16.2	24.4#





#75

1,3-Dichlorobenzene

Concen: 0.470 ppbv

RT: 17.18 min Scan# 4430

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

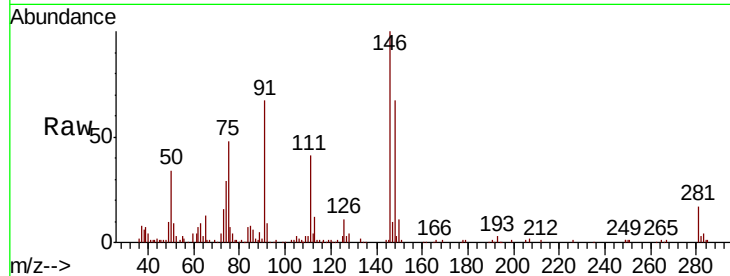
ClientSampleId :

VSTDIC0.5

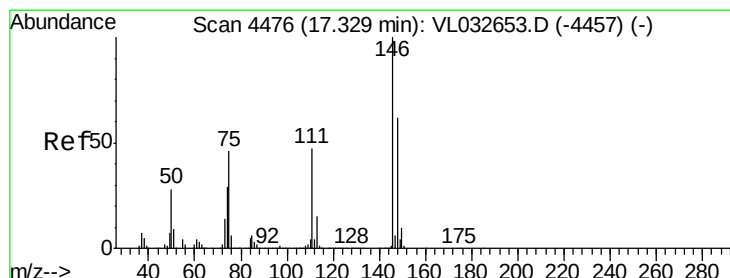
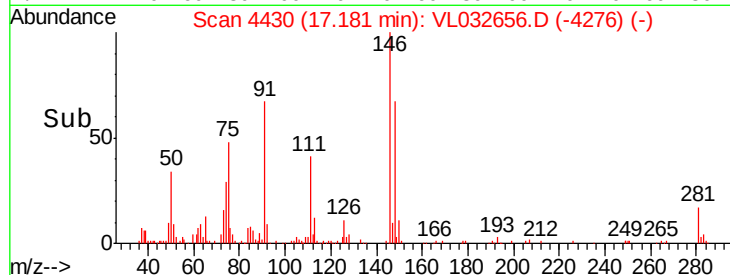
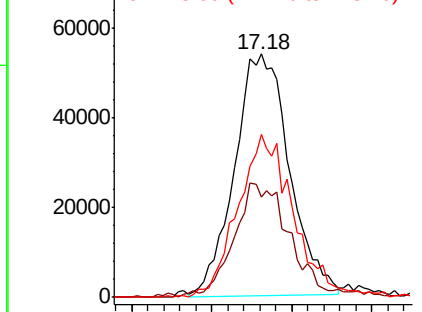
Tot Ion:	146	Resp:	126813
Ion Ratio	Lower	Upper	
146	100		
111	49.3	24.4	73.2
148	68.8	31.9	95.9

Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.433 ppbv

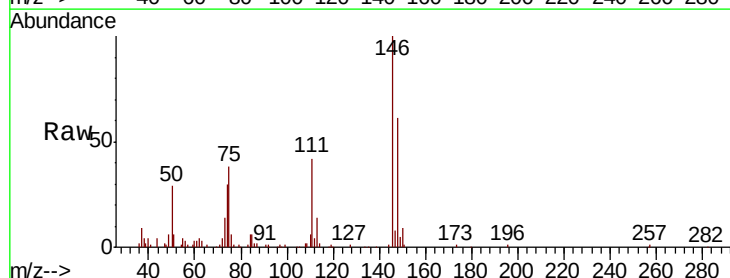
RT: 17.33 min Scan# 4475

Delta R.T. -0.00 min

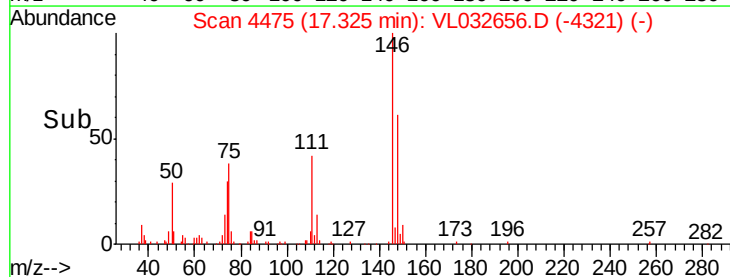
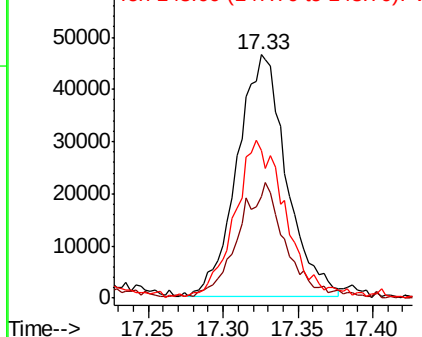
Lab File: VL032656.D

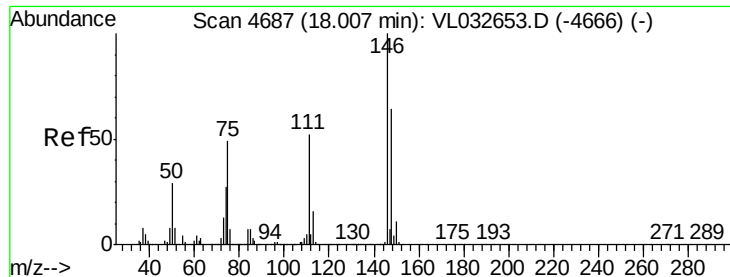
Acq: 18 Oct 2018 18:02

Tgt Ion:	146	Resp:	106485
Ion Ratio	Lower	Upper	
146	100		
111	47.2	23.7	71.1
148	68.1	32.1	96.3



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.10 (110.80 to 111.80): V
Ion 148.00 (147.70 to 148.70): V





#77

1,2-Dichlorobenzene

Concen: 0.449 ppbv

RT: 18.00 min Scan# 4686

Delta R.T. -0.00 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Instrument :

MSVOA_L

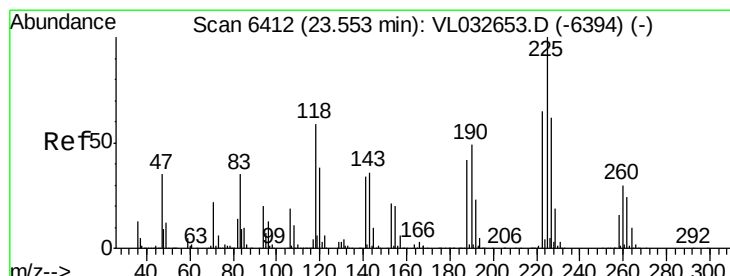
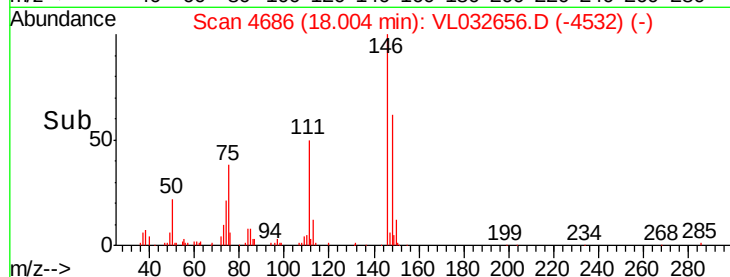
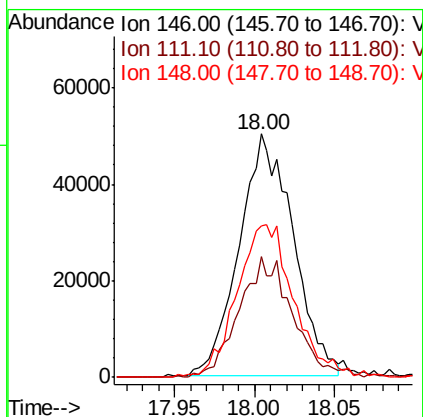
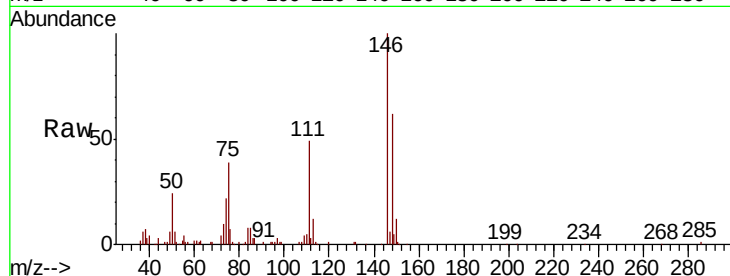
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	116412
Ion Ratio	Lower	Upper	
146	100		
111	49.7	25.3	75.8
148	66.7	31.9	95.9

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 0.428 ppbv

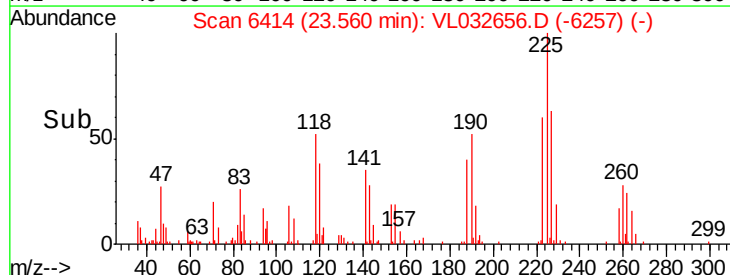
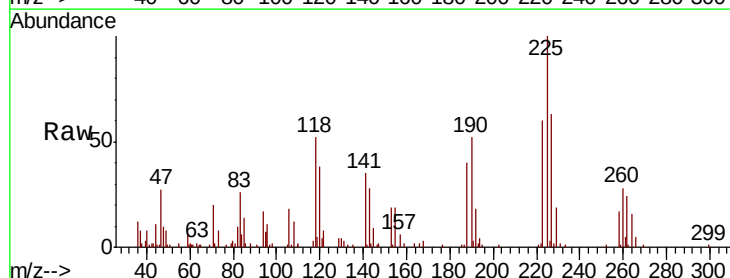
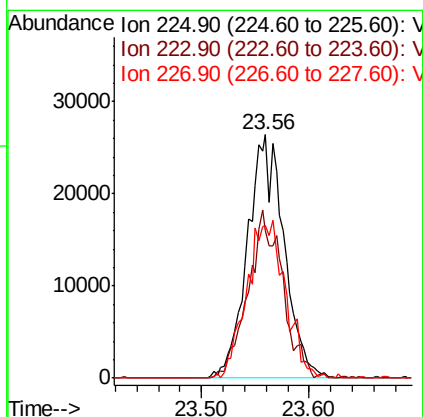
RT: 23.56 min Scan# 6414

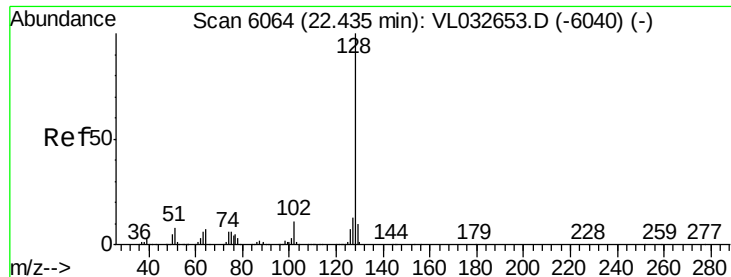
Delta R.T. 0.01 min

Lab File: VL032656.D

Acq: 18 Oct 2018 18:02

Tgt Ion:	225	Resp:	62110
Ion Ratio	Lower	Upper	
225	100		
223	65.7	50.7	76.1
227	0.0	50.7	76.1#





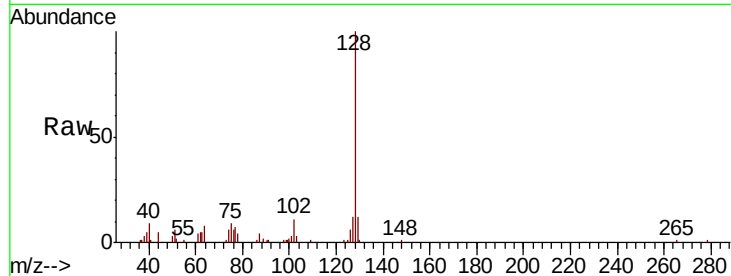
#79
Naphthalene
Concen: 0.274 ppbv m
RT: 22.44 min Scan# 6067
Delta R.T. 0.01 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.3	15.5
129	11.9	8.6	13.0

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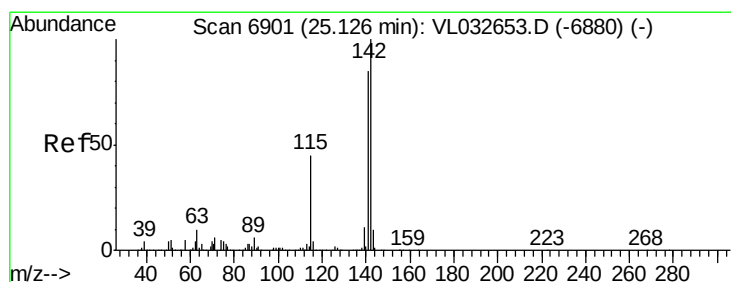
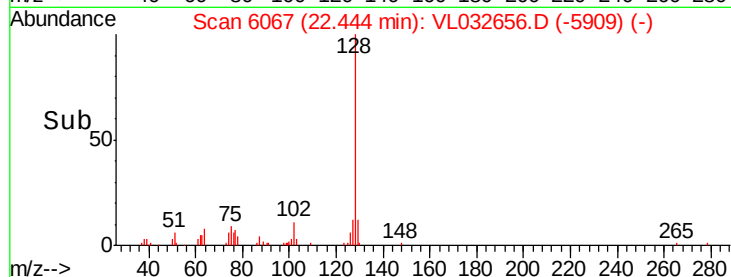
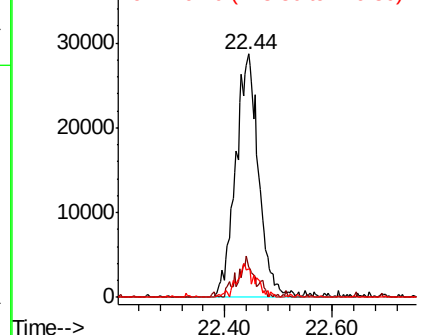


Abundance

Ion 128.10 (127.80 to 128.80): V

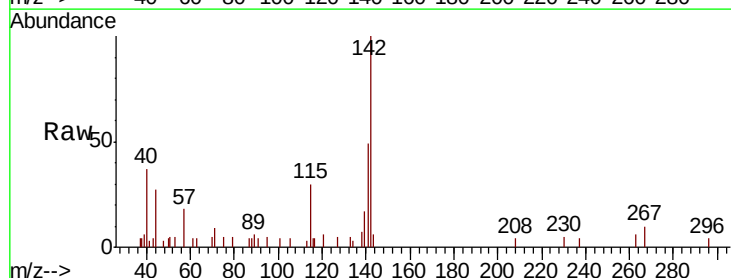
Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V



#80
Naphthalene, 2-methyl-
Concen: 0.136 ppbv
RT: 25.14 min Scan# 6904
Delta R.T. 0.01 min
Lab File: VL032656.D
Acq: 18 Oct 2018 18:02

Tgt Ion	Ratio	Lower	Upper
142	100		
141	78.4	67.5	101.3
115	35.6	33.5	50.3

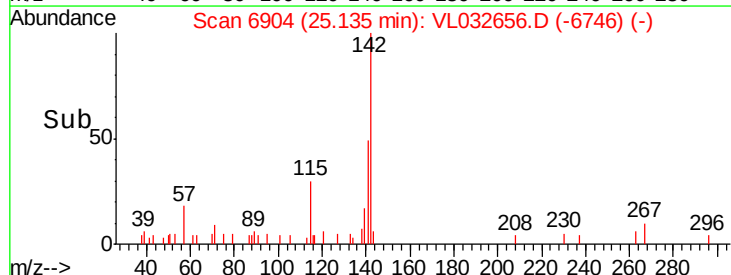
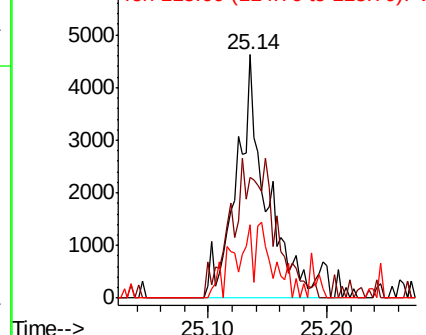


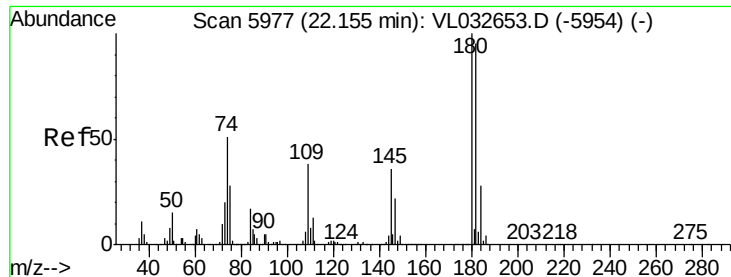
Abundance

Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.327 ppbv m
 RT: 22.16 min Scan# 5980
 Delta R.T. 0.01 min
 Lab File: VL032656.D
 Acq: 18 Oct 2018 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	180	Resp:	51213
Ion Ratio	Lower	Upper	
180	100		
182	93.3	76.5	114.7
184	29.2	24.7	37.1

Manual Integrations
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