

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070219\
 Data File : VL033992.D
 Acq On : 2 Jul 2019 15:36
 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
 7/3/2019 11:03:31 PM

Quant Time: Jul 02 19:33:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 2019
 QLast Update : Tue Jul 02 16:27:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.73	49	1094816	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.26	114	2894061	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.20	117	2742008	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.54	95	2227084	9.89	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.90%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.06	85	146969	0.827 ppbv	91
3) Chlorodifluoromethane	3.00	51	78121	0.606 ppbv	100
4) Chloromethane	3.16	50	44966	0.612 ppbv #	88
5) Vinyl Chloride	3.27	62	42845	0.628 ppbv	93
6) Bromomethane	3.50	94	26335	0.581 ppbv	82
7) Chloroethane	3.58	64	16437	0.609 ppbv	94
8) Dichlorotetrafluoroethane	3.20	85	122206	0.644 ppbv	100
9) Propene	3.02	41	26658m	0.553 ppbv	
10) Heptane	8.22	43	53657m	0.440 ppbv	
11) Trichlorofluoromethane	3.98	101	132975	0.580 ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.53	101	90152	0.582 ppbv	97
13) Ethanol	3.64	45	8474m	0.540 ppbv	
14) Bromoethene	3.77	108	32443	0.562 ppbv #	91
15) Acetone	3.89	43	101547	0.636 ppbv	95
16) 1,3-Butadiene	3.35	39	32185	0.530 ppbv	95
17) tert-Butyl alcohol	4.35	59	66363	0.532 ppbv #	92
18) 1,1-Dichloroethene	4.33	96	39959	0.611 ppbv	85
19) Isopropyl Alcohol	4.03	45	65160m	0.714 ppbv	
20) Methylene Chloride	4.38	84	44896m	0.721 ppbv	
21) Allyl Chloride	4.45	41	52446	0.578 ppbv	95
22) trans-1,2-Dichloroethene	4.94	96	39622	0.574 ppbv	88
23) Vinyl Acetate	5.13	43	72098	0.388 ppbv #	91
24) 1,1-Dichloroethane	5.06	63	85396	0.592 ppbv #	96
25) Ethyl Acetate	5.75	43	119831	0.493 ppbv	98
26) Hexane	5.75	57	52808	0.477 ppbv	90
27) Carbon Disulfide	4.60	76	86736	0.564 ppbv #	83
28) Methyl tert-Butyl Ether	5.10	73	88813	0.530 ppbv	100
29) Chloroform	5.82	83	116159	0.613 ppbv	88
30) Cyclohexane	7.22	84	38920m	0.498 ppbv	
31) cis-1,2-Dichloroethene	5.61	61	50313m	0.518 ppbv	
32) 1,1,1-Trichloroethane	6.59	97	101699	0.556 ppbv	98
34) 2-Butanone	5.31	43	66803	0.409 ppbv	96
35) Carbon Tetrachloride	7.10	117	109865m	0.491 ppbv	
36) Benzene	6.97	78	99893	0.452 ppbv #	92
37) 1,2-Dichloroethane	6.38	62	83500	0.511 ppbv #	97
38) Trichloroethene	7.93	130	45952m	0.534 ppbv	
39) 1,2-Dichloropropane	7.71	63	37757	0.443 ppbv #	88
40) 1,4-Dioxane	7.97	88	20103m	0.578 ppbv	
41) Tetrahydrofuran	6.14	42	29489m	0.356 ppbv	
42) Bromodichloromethane	7.89	83	107154	0.490 ppbv	90
43) Methyl Methacrylate	8.11	69	34033m	0.412 ppbv	

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Manual Integrations
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Quant Time: Jul 02 19:33:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL070219AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 0
 QLast Update : Tue Jul 02 16:27:55 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) 2,2,4-Trimethylpentane	7.96	57	169305m	0.431	ppbv	
45) t-1,3-Dichloropropene	9.38	75	39573m	0.365	ppbv	
46) cis-1,3-Dichloropropene	8.80	75	48215m	0.388	ppbv	
47) 1,1,2-Trichloroethane	9.58	97	51106m	0.502	ppbv	
48) Dibromochloromethane	10.42	129	117419	0.642	ppbv	97
49) Bromoform	13.16	173	73870m	0.458	ppbv	
50) 4-Methyl-2-Pentanone	8.86	43	89690m	0.368	ppbv	
51) 2-Hexanone	10.26	43	85628m	0.450	ppbv	
52) Tetrachloroethene	11.34	164	44860m	0.577	ppbv	
53) Toluene	9.91	91	91753	0.375	ppbv	94
54) 1,2-Dibromoethane	10.72	107	66286	0.432	ppbv	86
56) 1,1,1,2-Tetrachloroethane	12.25	131	62389	0.521	ppbv #	1
57) Chlorobenzene	12.26	112	114132m	0.556	ppbv	
58) Ethyl Benzene	12.83	91	124140	0.402	ppbv	90
59) m/p-Xylene	13.11	91	256564m	0.913	ppbv	
60) o-Xylene	13.81	91	127079	0.438	ppbv	97
61) Styrene	13.65	104	71032m	0.378	ppbv	
62) Isopropylbenzene	14.79	105	183018m	0.468	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.79	83	116208m	0.532	ppbv	
64) n-propylbenzene	15.69	120	45865m	0.458	ppbv	
65) tert-Butylbenzene	16.88	119	158635	0.438	ppbv	95
66) Benzyl Chloride	17.11	91	80166m	0.437	ppbv	
67) sec-Butylbenzene	17.42	105	226159	0.445	ppbv	99
69) p-Isopropyltoluene	17.78	119	181934	0.431	ppbv	98
70) n-Butylbenzene	18.68	91	195721m	0.423	ppbv	
71) 2-Chlorotoluene	15.58	91	119999m	0.416	ppbv	
72) 4-Ethyltoluene	15.96	105	134045	0.406	ppbv #	95
73) 1,3,5-Trimethylbenzene	16.13	105	137920	0.424	ppbv	87
74) 1,2,4-Trimethylbenzene	16.89	105	171736	0.458	ppbv #	82
75) 1,3-Dichlorobenzene	17.13	146	125568m	0.535	ppbv	
76) 1,4-Dichlorobenzene	17.27	146	112562m	0.522	ppbv	
77) 1,2-Dichlorobenzene	17.95	146	108510	0.501	ppbv	99
78) Hexachloro-1,3-Butadiene	23.50	225	106035m	0.626	ppbv	
79) Naphthalene	22.38	128	119870m	0.400	ppbv	
80) Naphthalene, 2-methyl-	25.08	142	40685	0.340	ppbv	95
81) 1,2,4-Trichlorobenzene	22.10	180	90654m	0.479	ppbv	

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

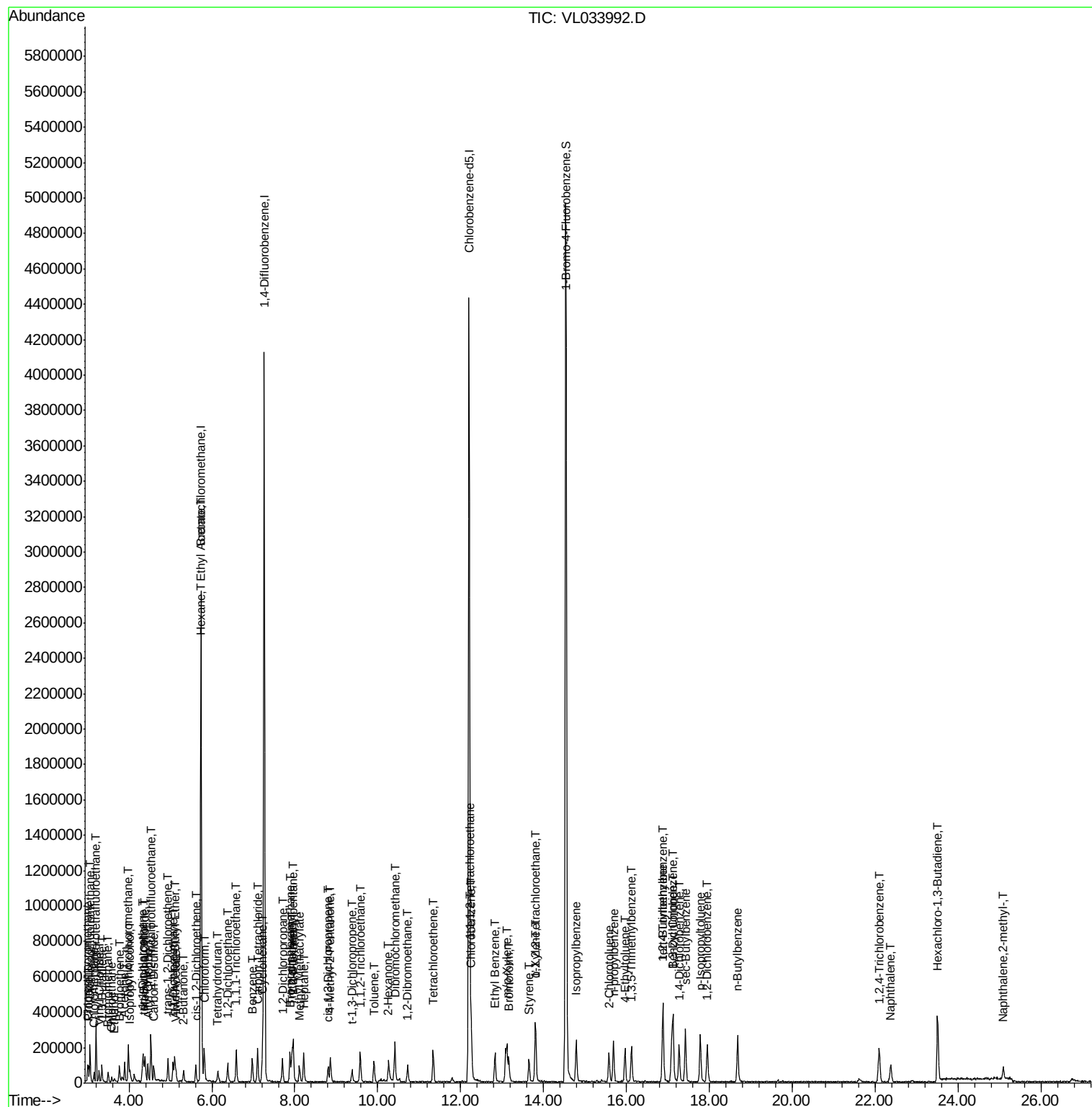
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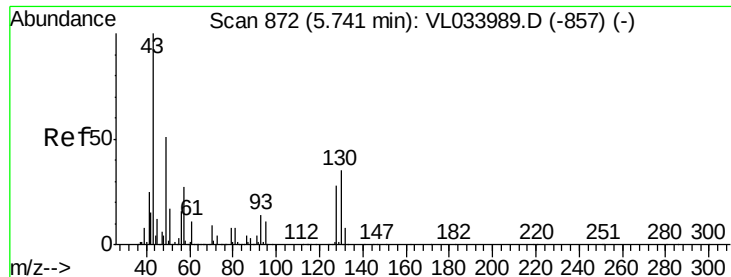
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul
QLast Update : Tue Jul 02 16:27:55 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.73 min Scan# 869

Delta R.T. -0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 49 Resp: 1094816

Ion Ratio Lower Upper

49 100

128 56.9 27.9 83.6

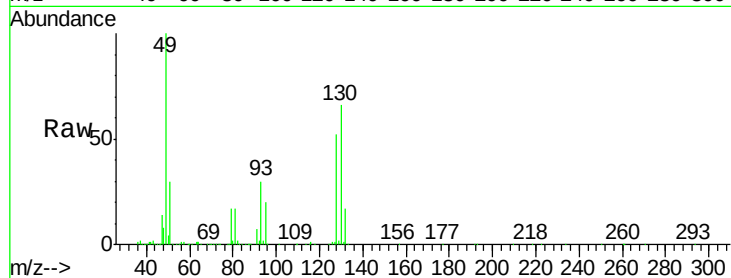
130 73.1 35.8 107.4

Manual Integrations

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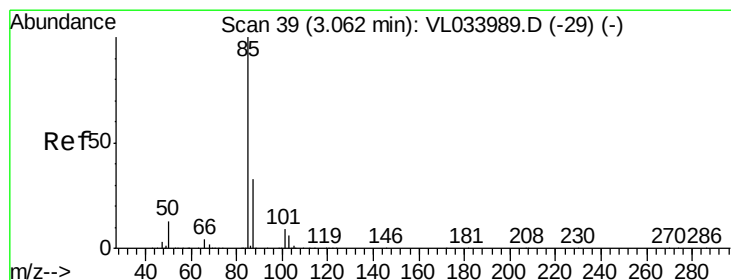
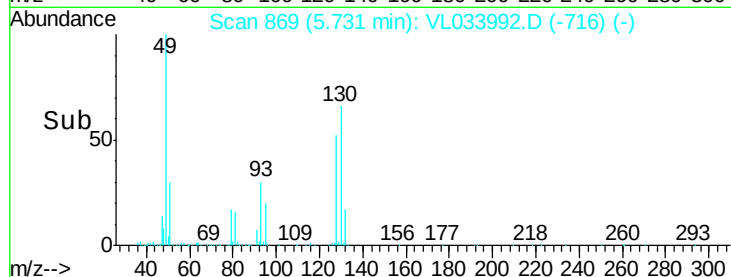
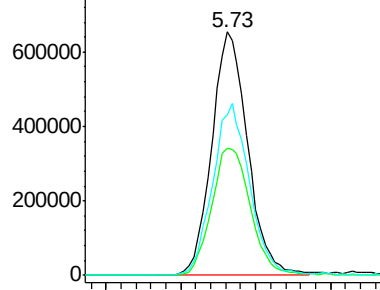
7/3/2019 11:03:31 PM



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.827 ppbv

RT: 3.06 min Scan# 39

Delta R.T. 0.00 min

Lab File: VL033992.D

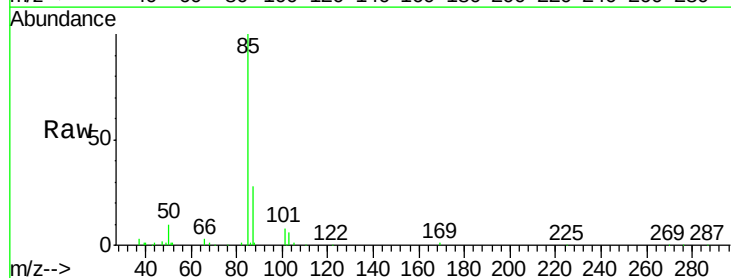
Acq: 2 Jul 2019 15:36

Tgt Ion: 85 Resp: 146969

Ion Ratio Lower Upper

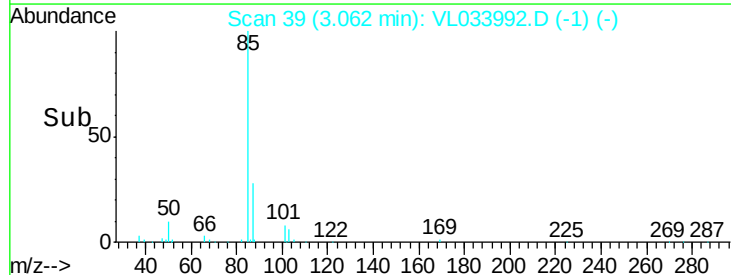
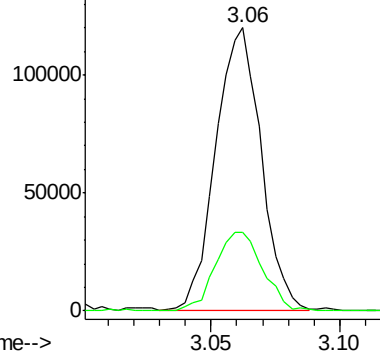
85 100

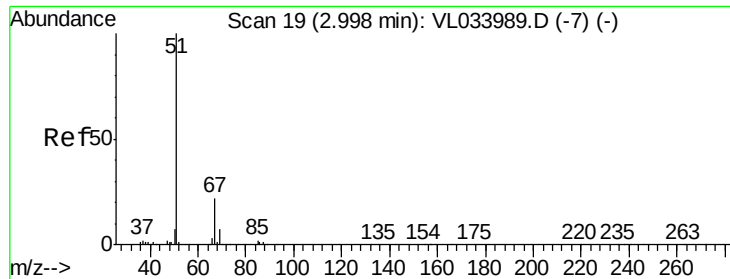
87 27.4 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.606 ppbv

RT: 3.00 min Scan# 20

Delta R.T. 0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 78121

Ion Ratio Lower Upper

51 100

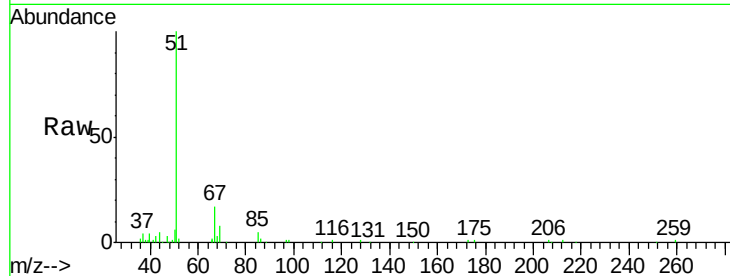
67 21.5 17.3 25.9

Manual Integrations

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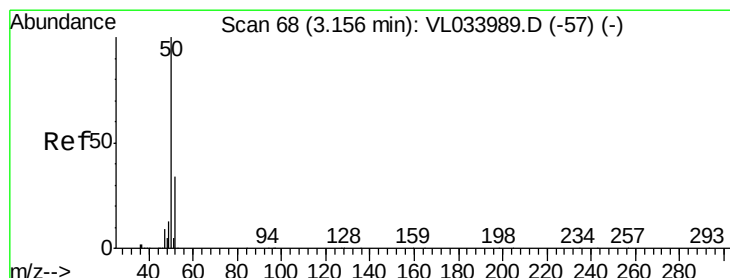
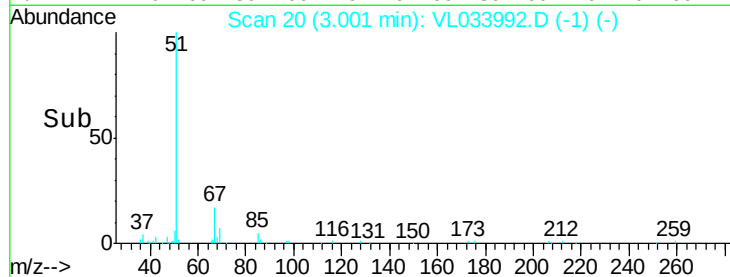
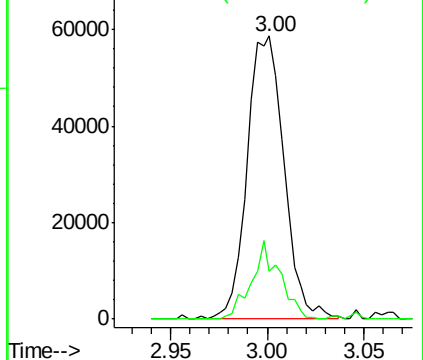
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.612 ppbv

RT: 3.16 min Scan# 68

Delta R.T. 0.00 min

Lab File: VL033992.D

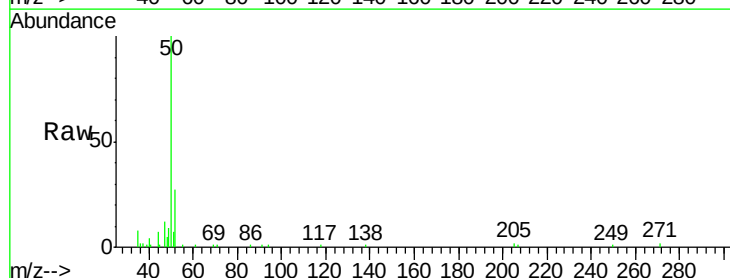
Acq: 2 Jul 2019 15:36

Tgt Ion: 50 Resp: 44966

Ion Ratio Lower Upper

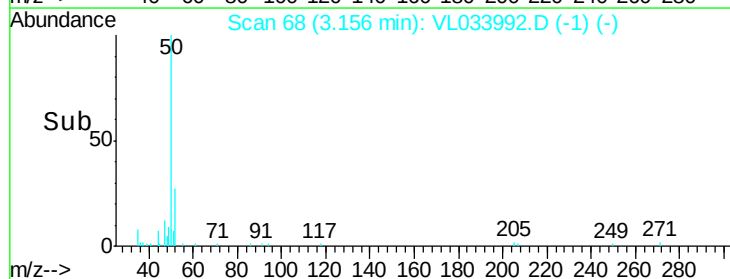
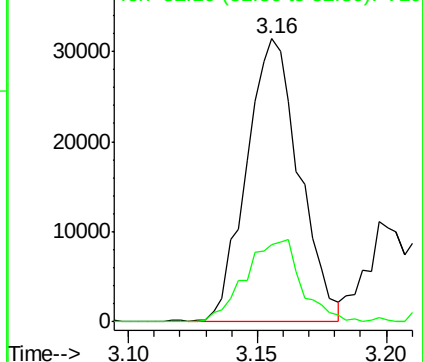
50 100

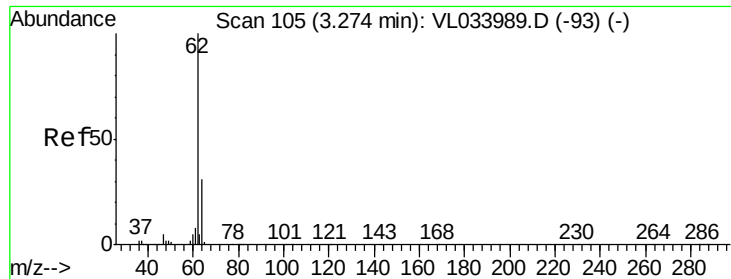
52 27.2 27.4 41.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.628 ppbv

RT: 3.27 min Scan# 105

Delta R.T. 0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 42845

Ion Ratio Lower Upper

62 100

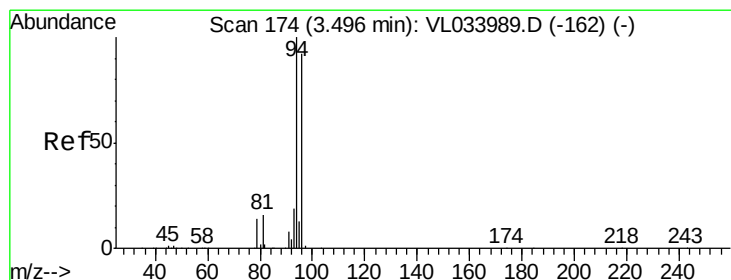
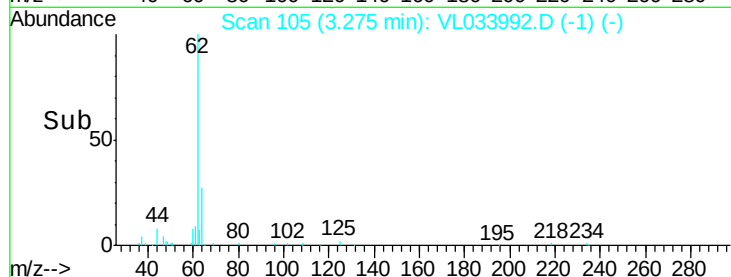
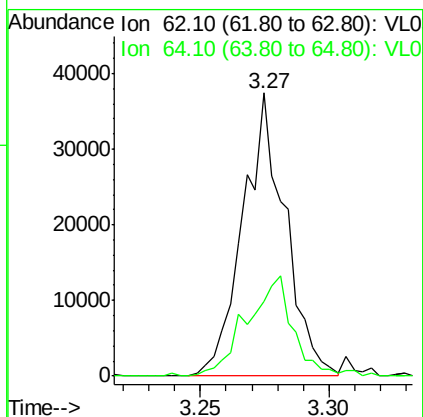
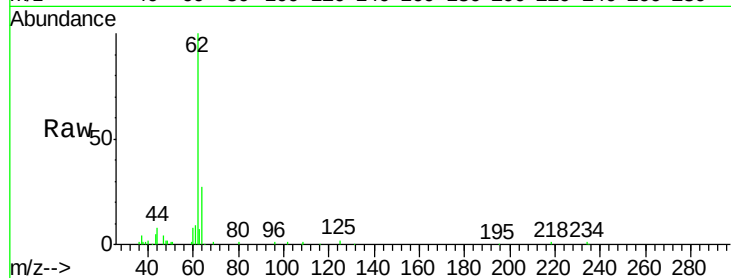
64 26.5 24.4 36.6

Manual Integrations

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#6

Bromomethane

Concen: 0.581 ppbv

RT: 3.50 min Scan# 174

Delta R.T. 0.00 min

Lab File: VL033992.D

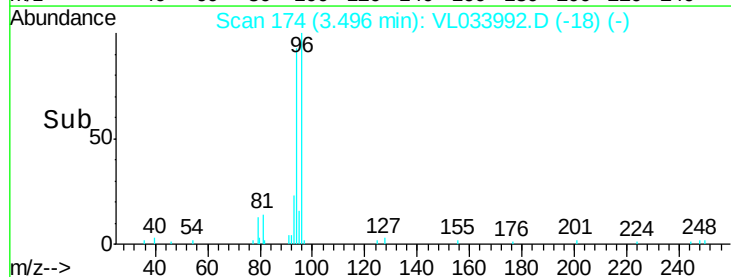
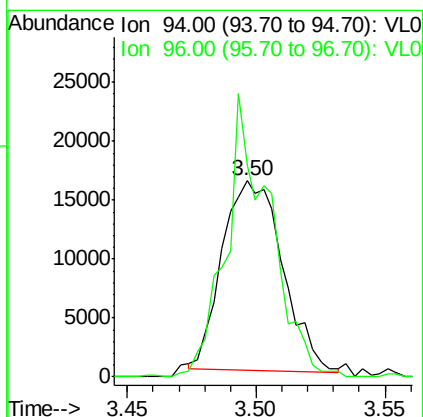
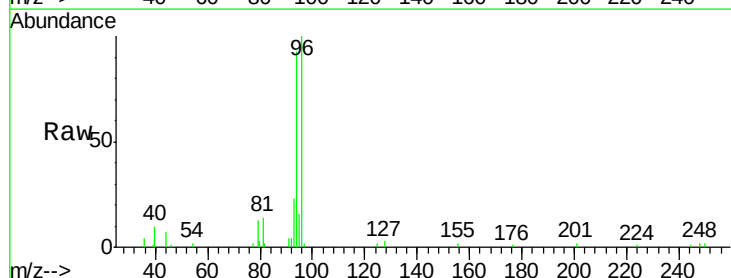
Acq: 2 Jul 2019 15:36

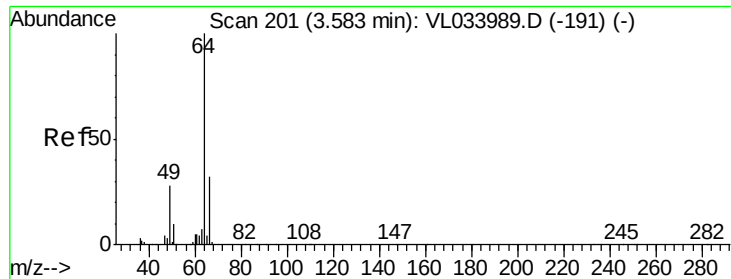
Tgt Ion: 94 Resp: 26335

Ion Ratio Lower Upper

94 100

96 109.4 73.8 110.8





#7

Chloroethane

Concen: 0.609 ppbv

RT: 3.58 min Scan# 200

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 16437

Ion Ratio Lower Upper

64 100

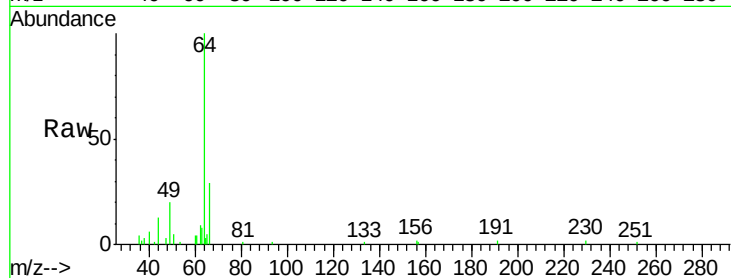
66 28.3 25.3 37.9

Manual Integrations

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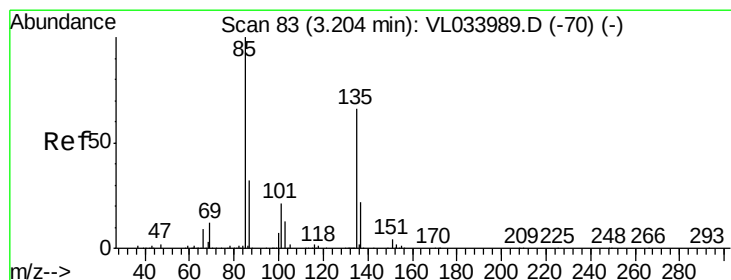
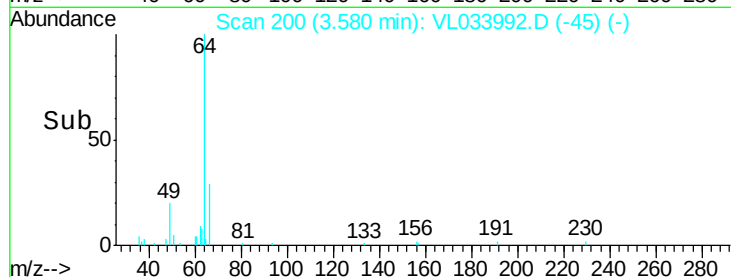
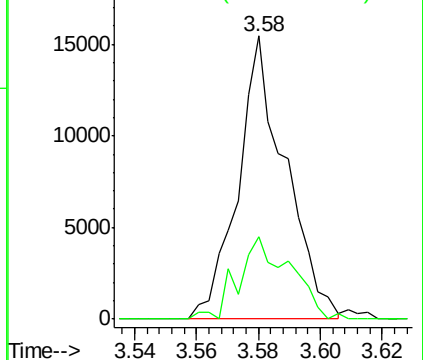
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Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.644 ppbv

RT: 3.20 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL033992.D

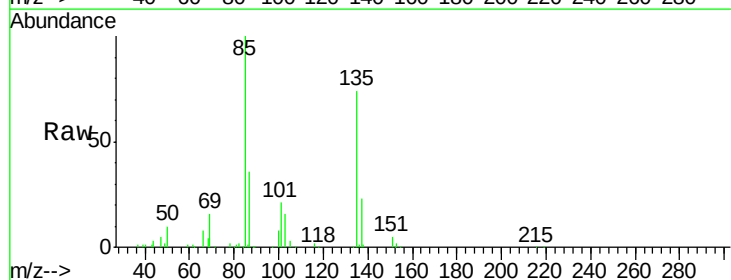
Acq: 2 Jul 2019 15:36

Tgt Ion: 85 Resp: 122206

Ion Ratio Lower Upper

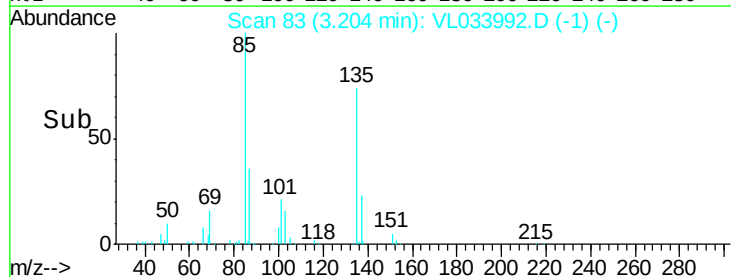
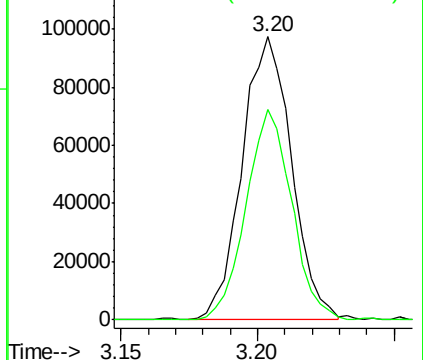
85 100

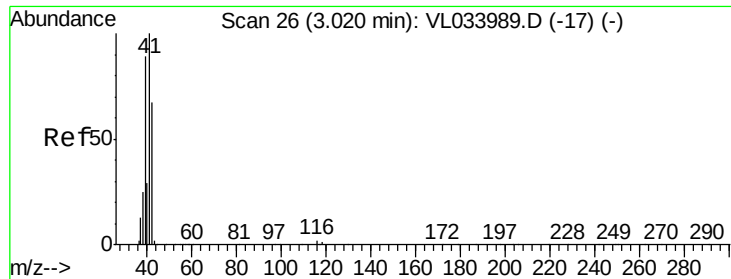
135 68.7 55.0 82.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.553 ppbv m

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 26658

Ion Ratio Lower Upper

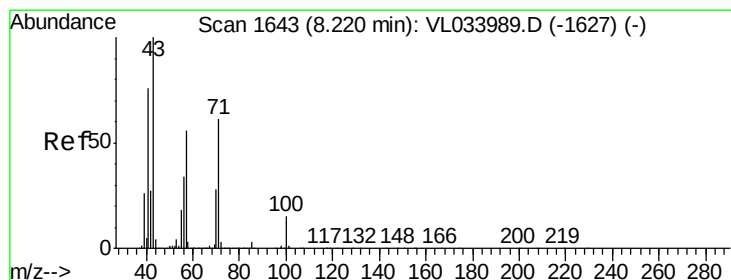
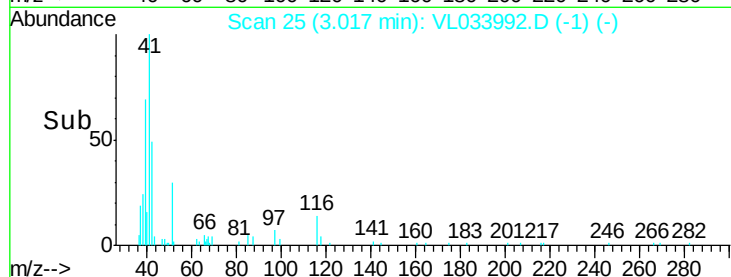
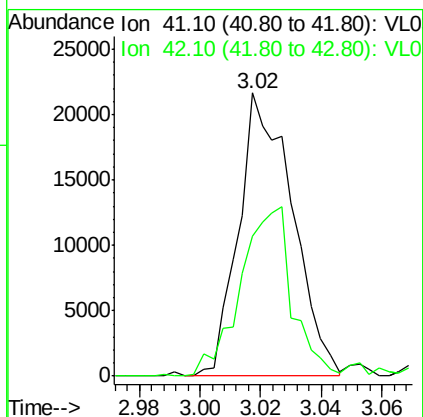
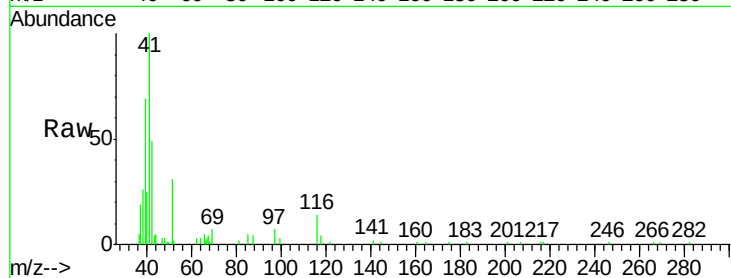
41 100

42 0.0 57.1 85.7#

Manual Integrations
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#10

Heptane

Concen: 0.440 ppbv m

RT: 8.22 min Scan# 1643

Delta R.T. 0.00 min

Lab File: VL033992.D

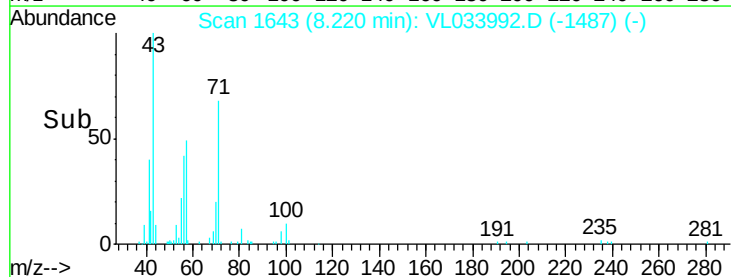
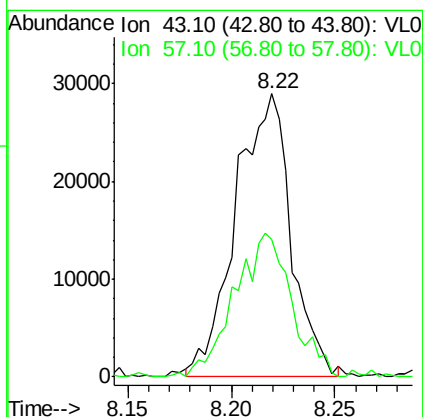
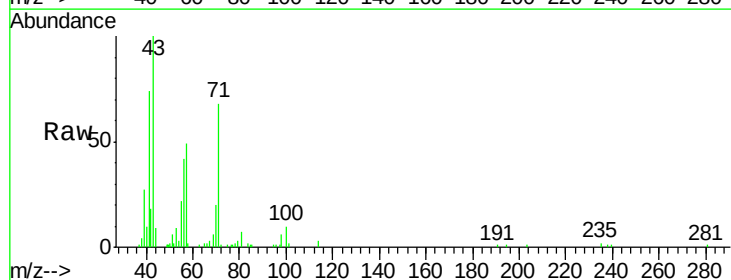
Acq: 2 Jul 2019 15:36

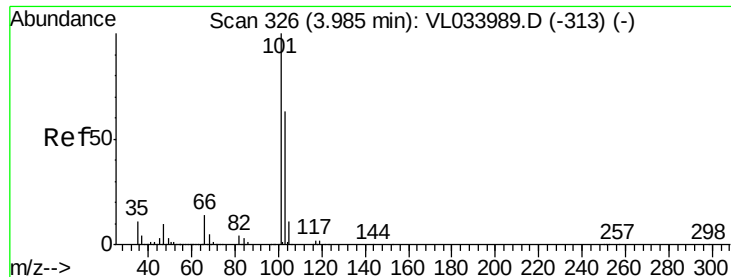
Tgt Ion: 43 Resp: 53657

Ion Ratio Lower Upper

43 100

57 0.0 44.6 66.8#





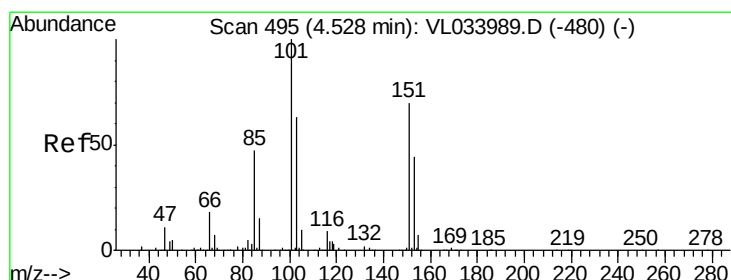
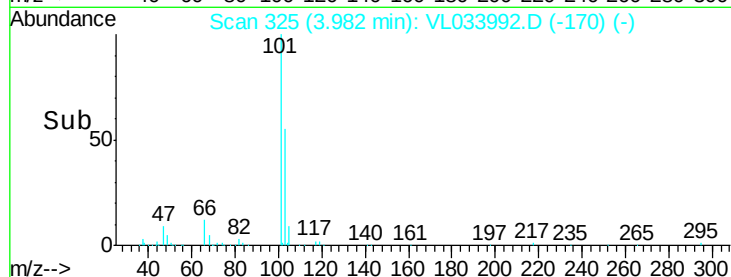
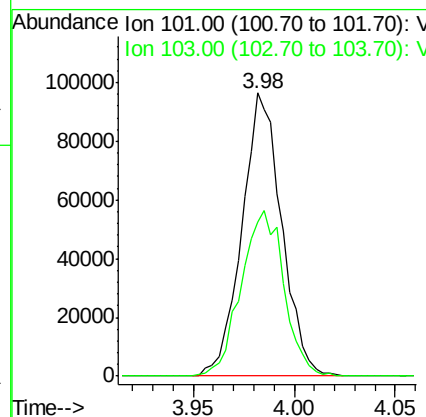
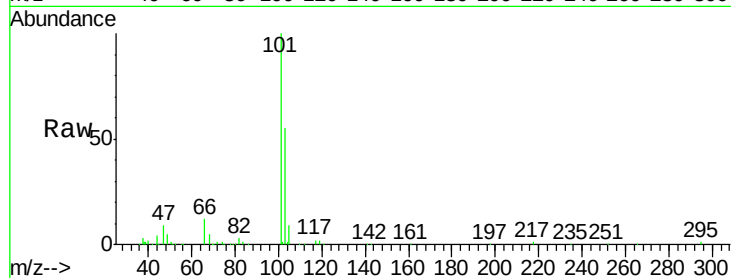
#11
 Trichlorofluoromethane
 Concen: 0.580 ppbv
 RT: 3.98 min Scan# 325
 Delta R.T. -0.00 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
101	100		
103	54.6	50.8	76.2

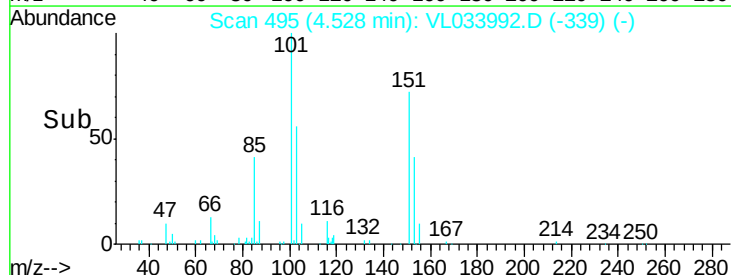
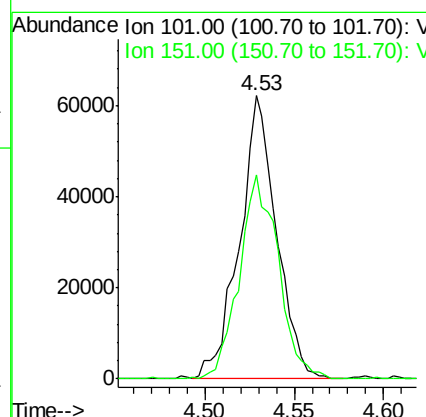
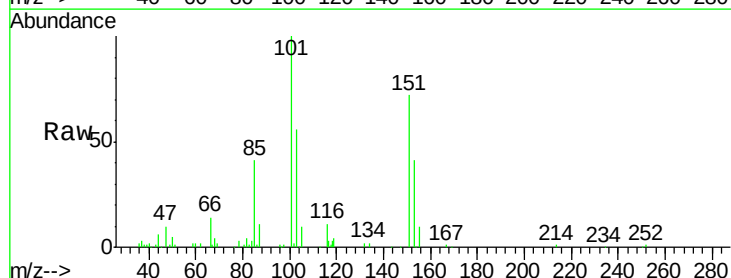
Manual Integrations
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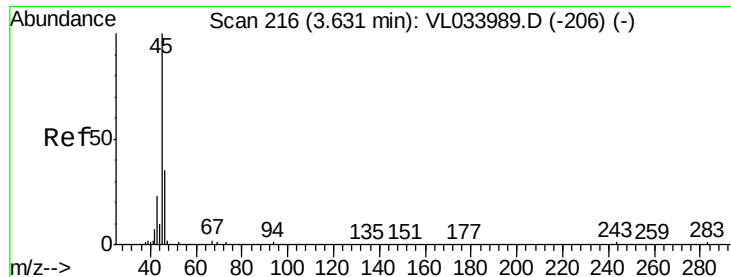
MMDadoda
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.582 ppbv
 RT: 4.53 min Scan# 495
 Delta R.T. 0.00 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
101	100		
151	76.1	59.0	88.4





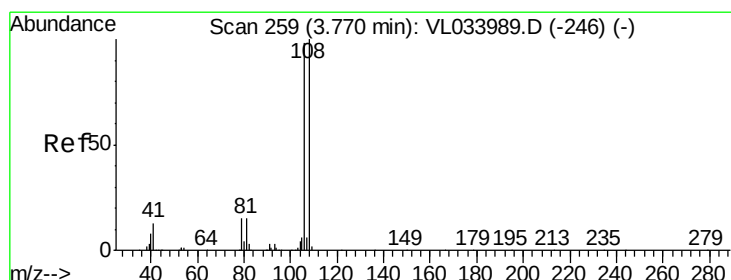
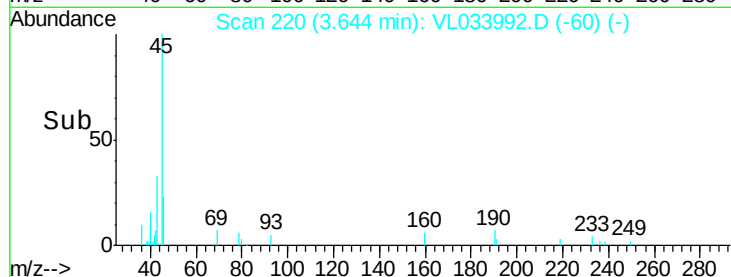
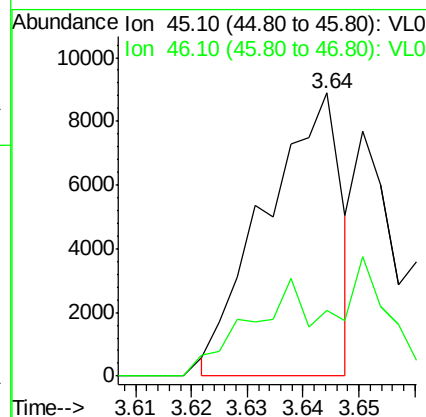
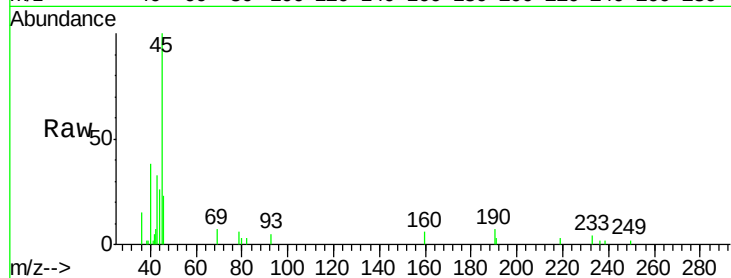
#13
Ethanol
Concen: 0.540 ppbv m
RT: 3.64 min Scan# 220
Delta R.T. 0.01 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	45	46	Ratio	100	0.0	Resp	8474	Lower	Upper
45	100								
46		0.0			16.2		64.6#		

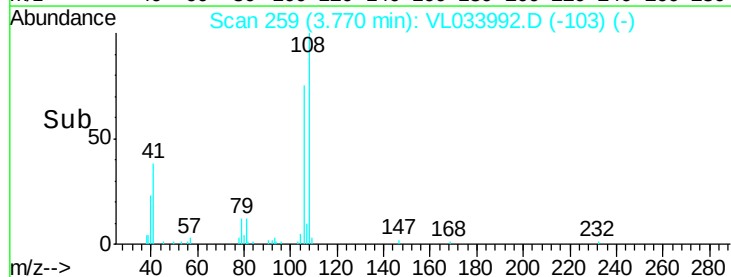
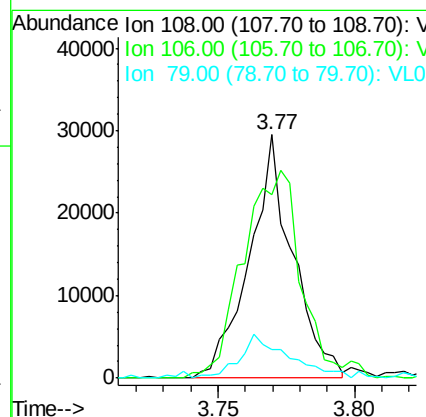
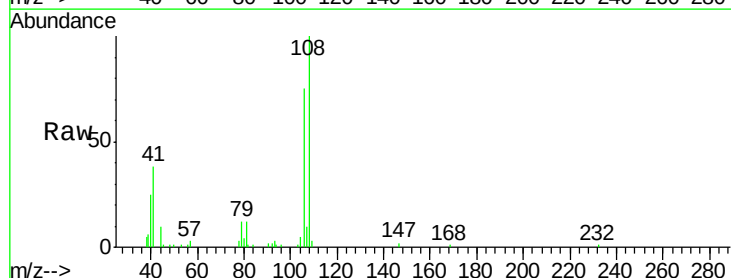
Manual Integrations
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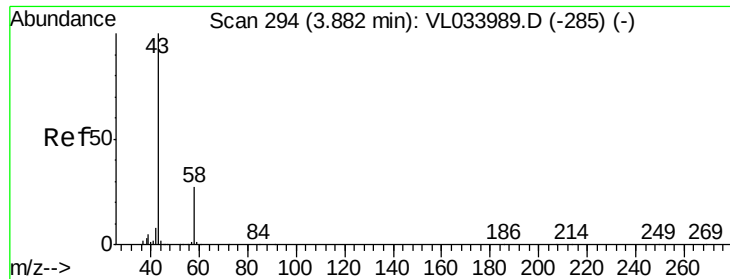
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#14
Bromoethene
Concen: 0.562 ppbv
RT: 3.77 min Scan# 259
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	108	106	79	Ratio	100	115.3	23.0	Resp	32443	Lower	Upper
108	100										
106		115.3			85.6		128.4				
79		23.0			14.0		21.0#				





#15

Acetone

Concen: 0.636 ppbv

RT: 3.89 min Scan# 297

Delta R.T. 0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 101547

Ion Ratio Lower Upper

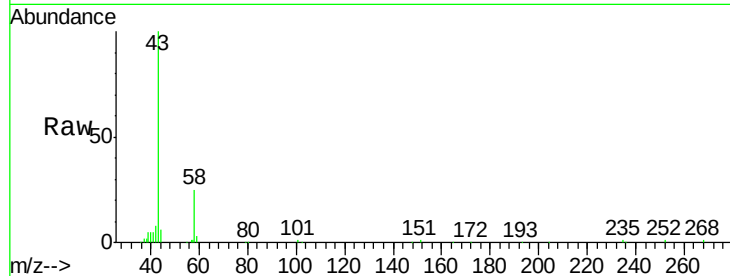
43 100

58 29.3 21.4 32.0

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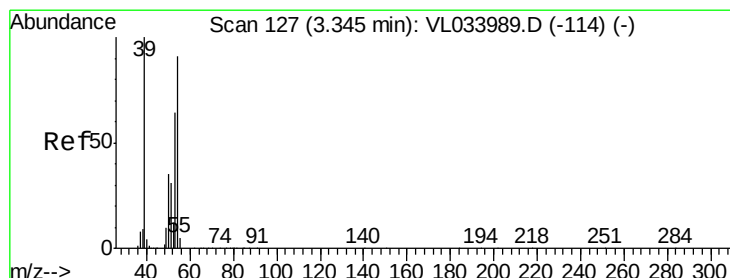
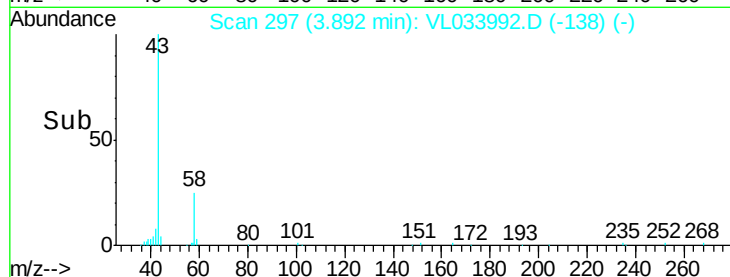
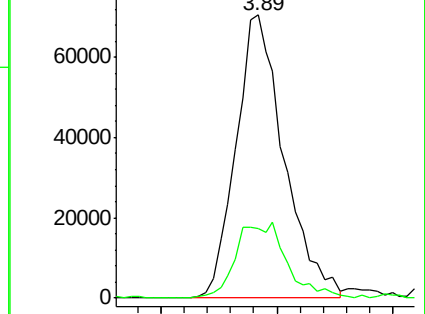
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.530 ppbv

RT: 3.35 min Scan# 127

Delta R.T. 0.00 min

Lab File: VL033992.D

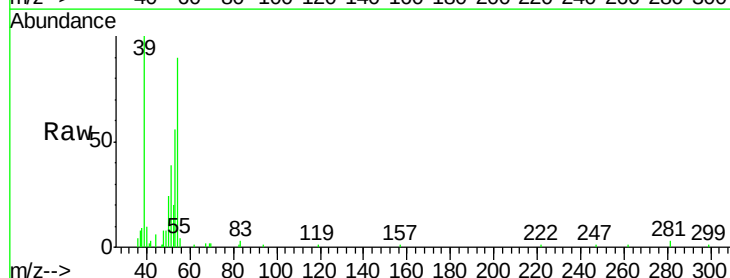
Acq: 2 Jul 2019 15:36

Tgt Ion: 39 Resp: 32185

Ion Ratio Lower Upper

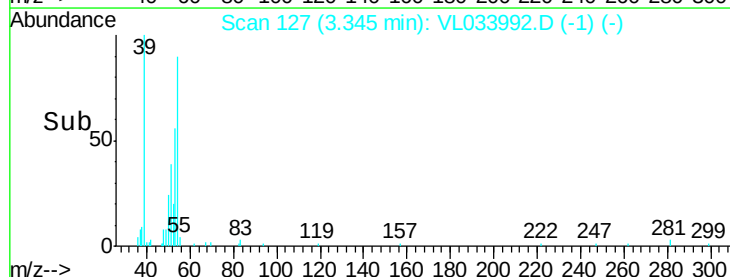
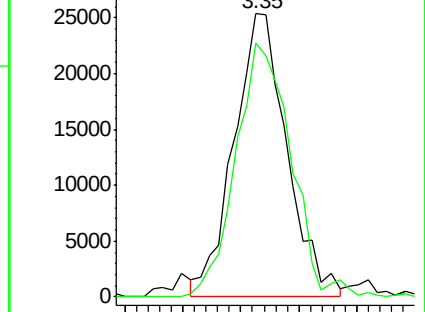
39 100

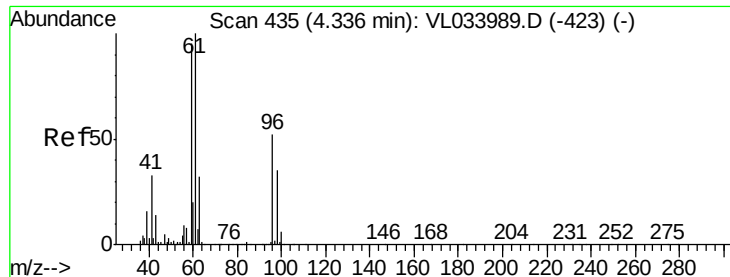
54 93.7 71.4 107.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

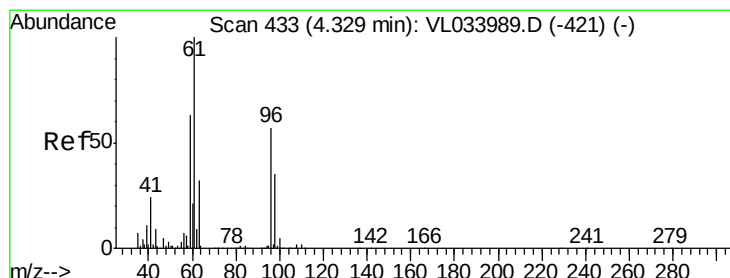
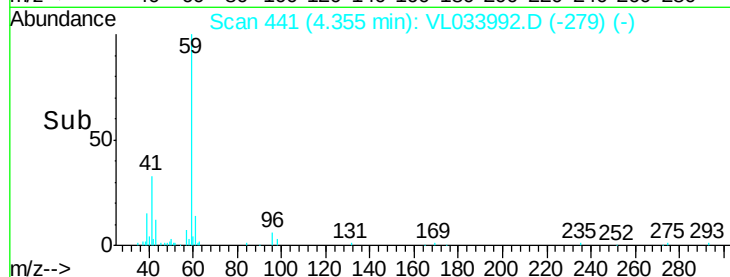
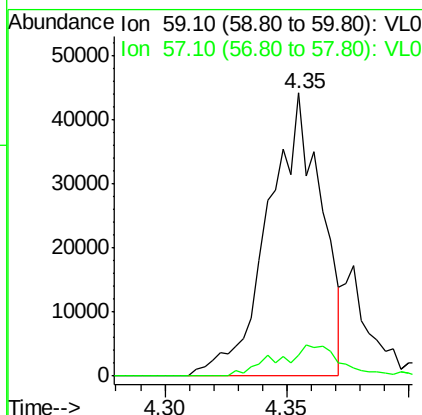
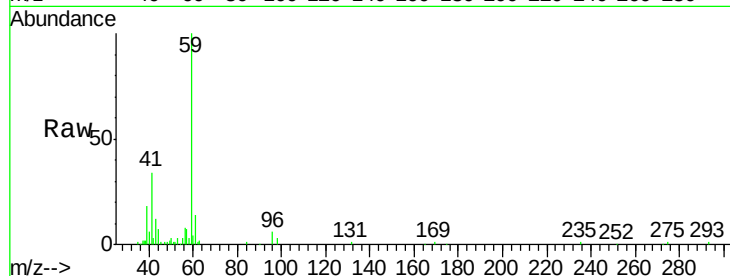
tert-Butyl alcohol
Concen: 0.532 ppbv
RT: 4.35 min Scan# 441
Delta R.T. 0.02 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
59	100		
57	13.3	8.2	12.2#

Manual Integrations
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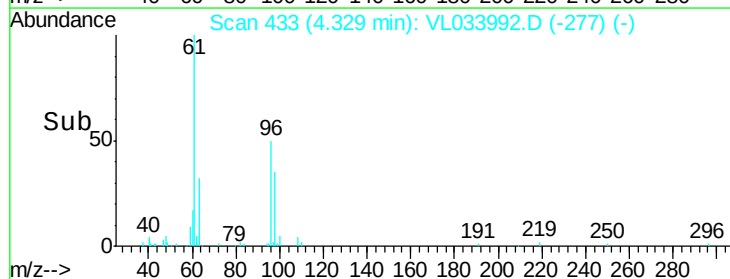
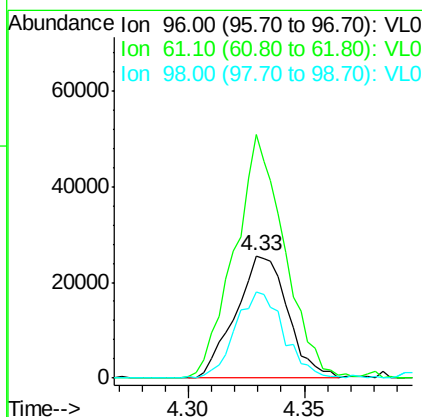
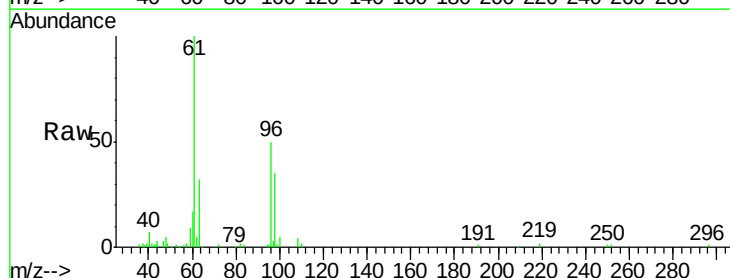
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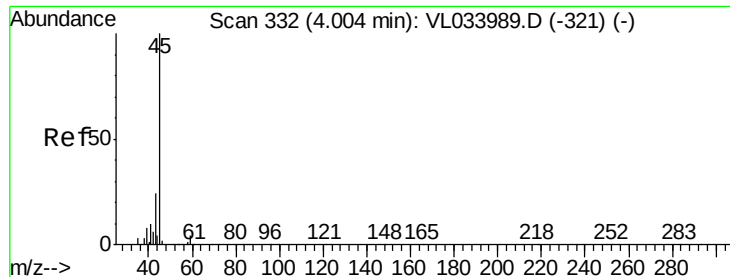


#18

1,1-Dichloroethene
Concen: 0.611 ppbv
RT: 4.33 min Scan# 433
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
96	100		
61	198.2	139.4	209.0
98	69.1	49.4	74.0





#19

Isopropyl Alcohol

Concen: 0.714 ppbv m

RT: 4.03 min Scan# 339

Delta R.T. 0.02 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 65160

Ion Ratio Lower Upper

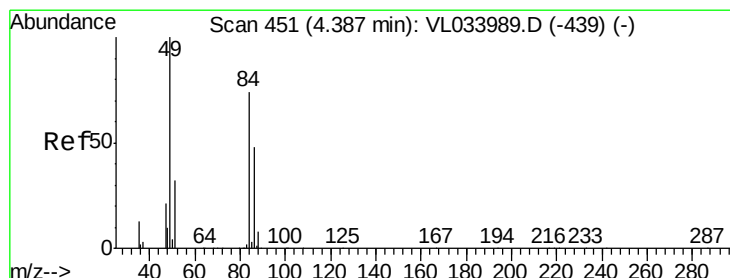
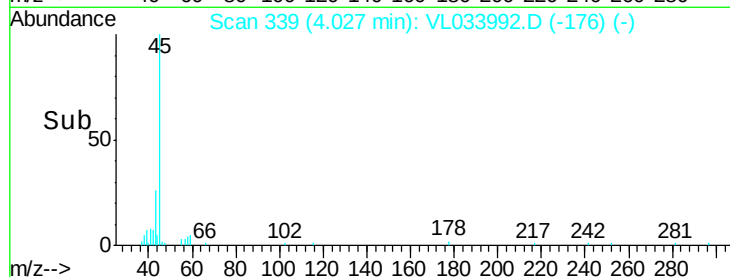
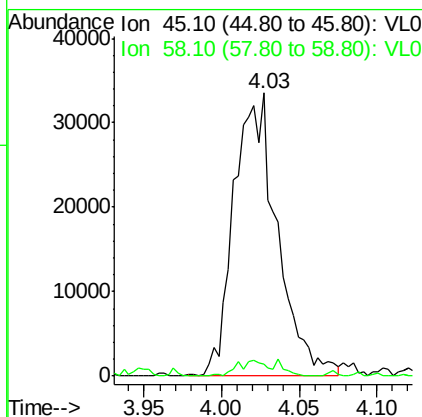
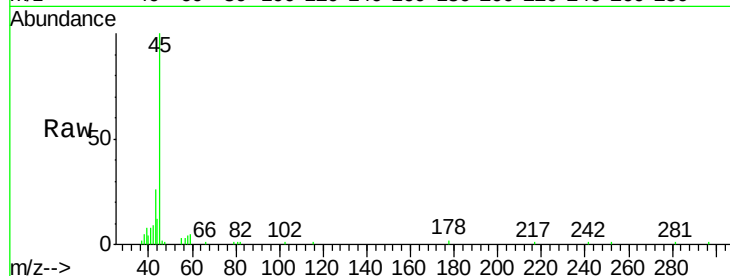
45 100

58 0.0 1.7 2.5#

Manual Integrations
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#20

Methylene Chloride

Concen: 0.721 ppbv m

RT: 4.38 min Scan# 450

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion: 84 Resp: 44896

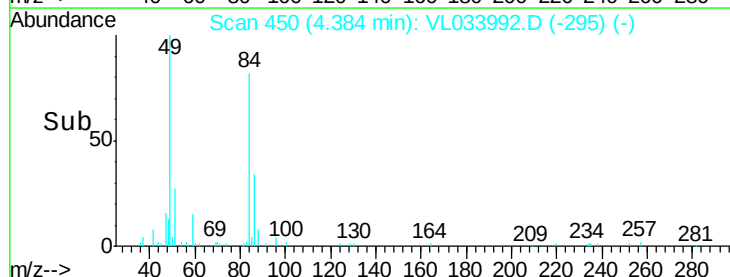
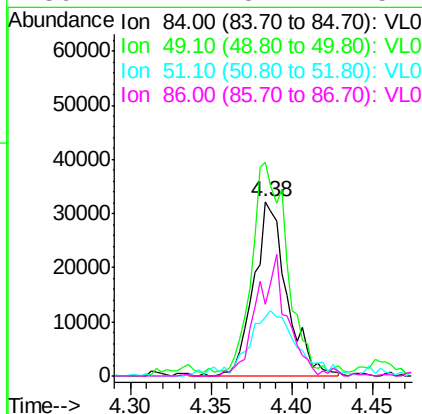
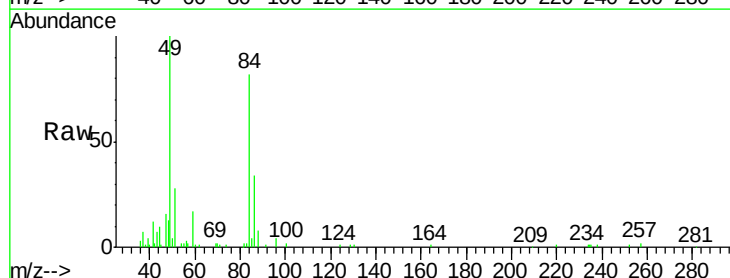
Ion Ratio Lower Upper

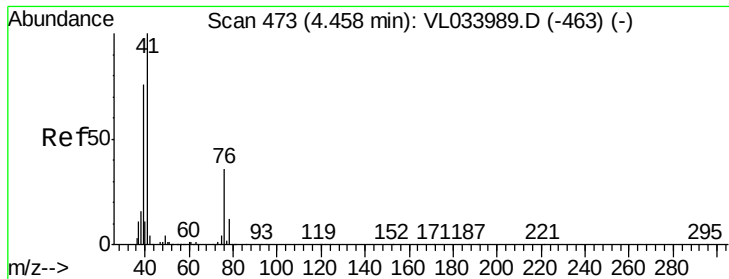
84 100

49 122.4 107.6 161.4

51 34.0 35.0 52.6#

86 41.2 52.1 78.1#





#21

Allvl Chloride

Concen: 0.578 ppbv

RT: 4.45 min Scan# 472

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

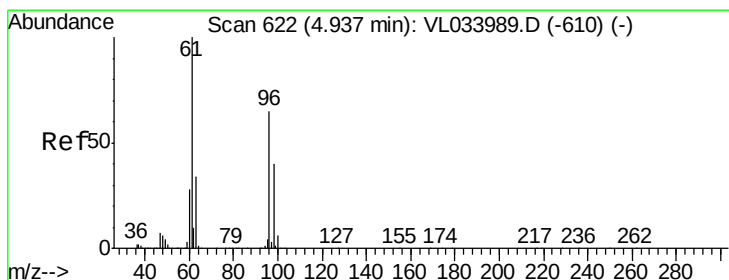
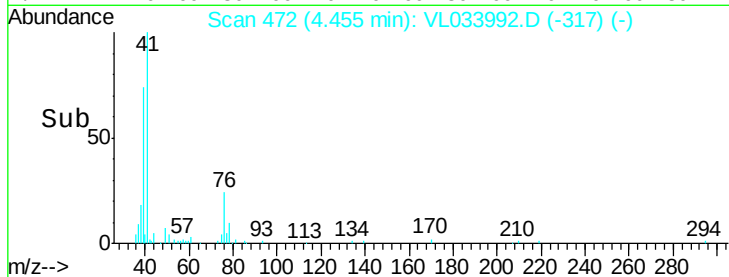
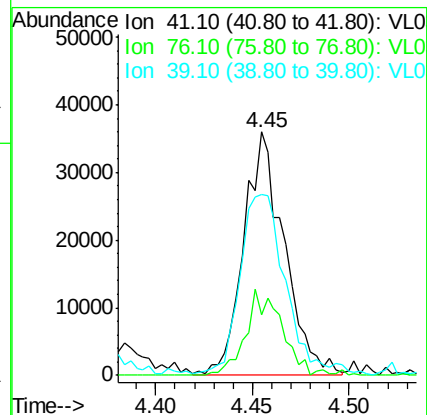
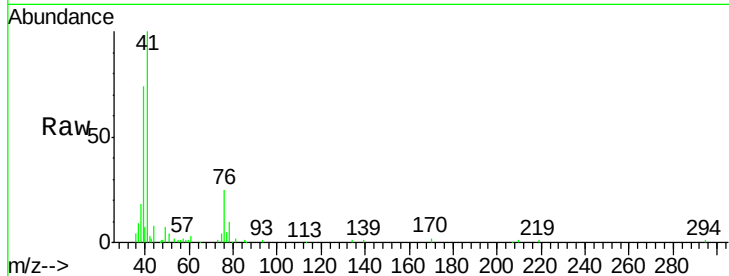
ClientSampleId :

VSTDIC0.5

Tot Ion:	41	Resp:	52446
Ion	Ratio	Lower	Upper
41	100		
76	31.8	26.8	40.2
39	83.6	63.1	94.7

Manual Integrations
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#22

trans-1,2-Dichloroethene

Concen: 0.574 ppbv

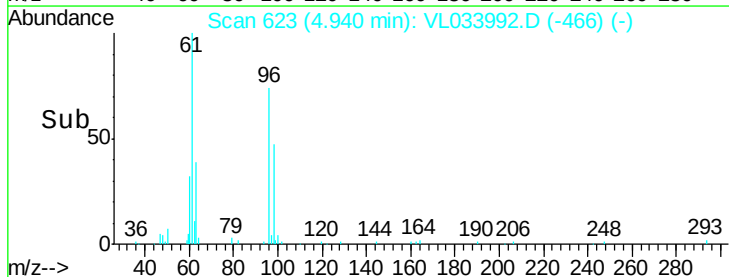
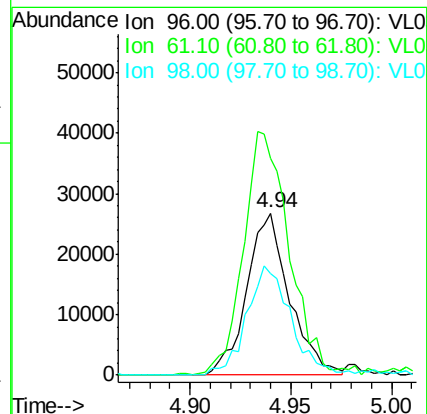
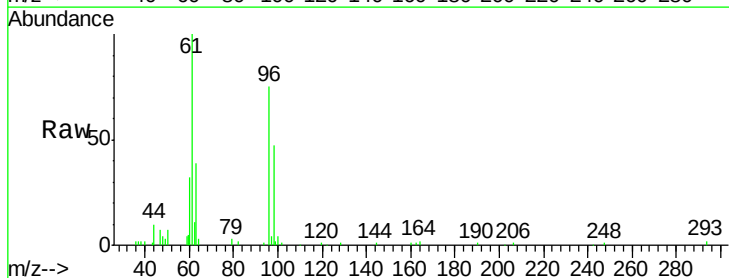
RT: 4.94 min Scan# 623

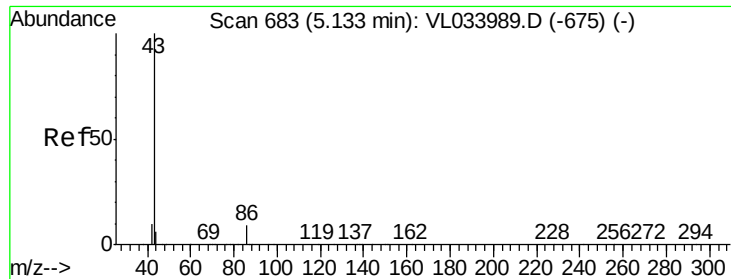
Delta R.T. 0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion:	96	Resp:	39622
Ion	Ratio	Lower	Upper
96	100		
61	133.5	122.9	184.3
98	65.1	49.6	74.4





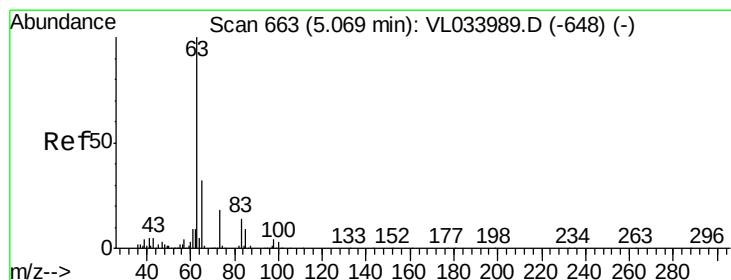
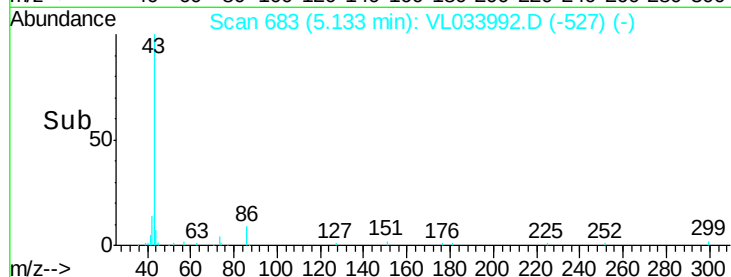
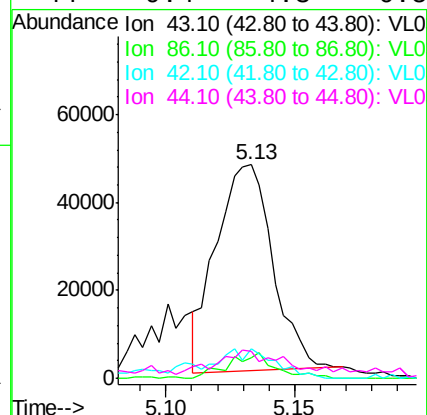
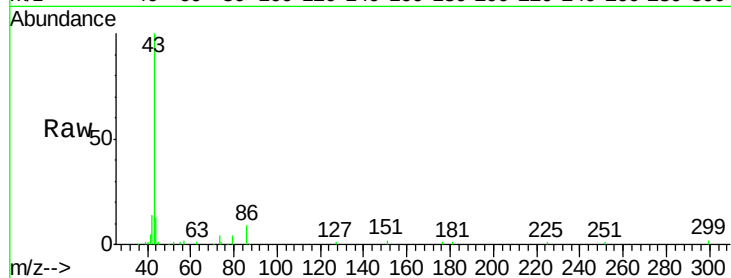
#23
 Vinyl Acetate
 Concen: 0.388 ppbv
 RT: 5.13 min Scan# 683
 Delta R.T. 0.00 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	43	Resp	72098
Ion Ratio	Lower	Upper	
43	100		
86	9.9	6.6	9.8#
42	14.7	8.3	12.5#
44	9.4	4.3	6.5#

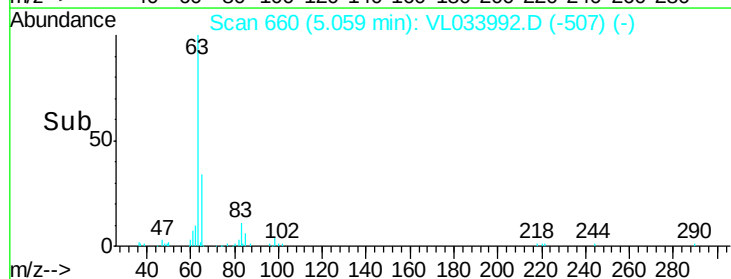
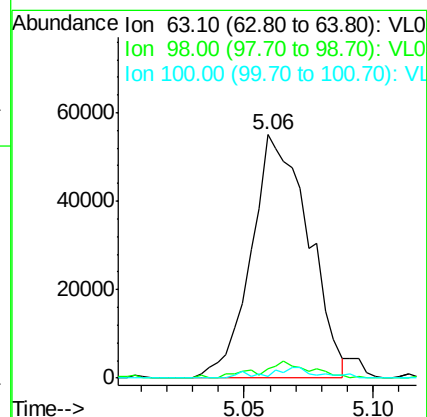
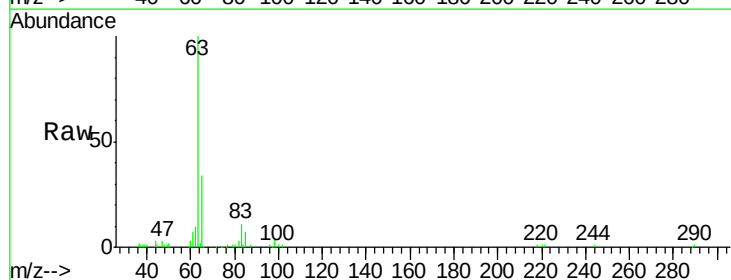
Manual Integrations
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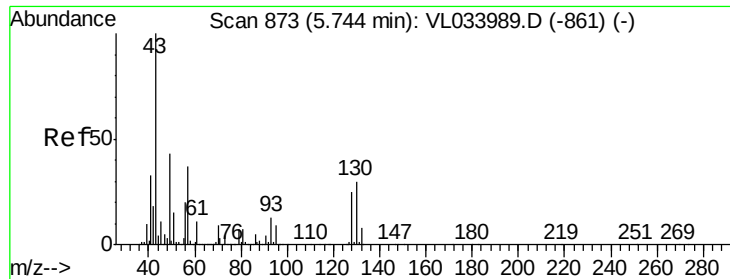
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#24
 1,1-Dichloroethane
 Concen: 0.592 ppbv
 RT: 5.06 min Scan# 660
 Delta R.T. -0.01 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Tgt Ion	63	Resp	85396
Ion Ratio	Lower	Upper	
63	100		
98	3.3	2.2	6.6
100	0.9	1.4	4.2#





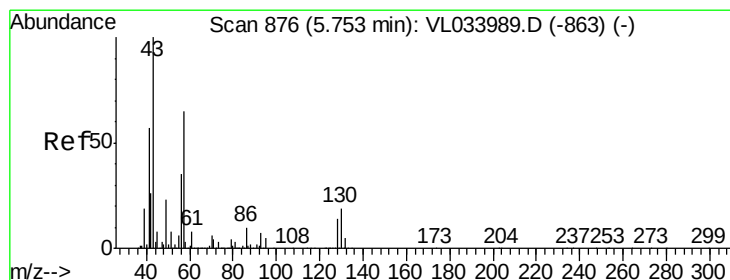
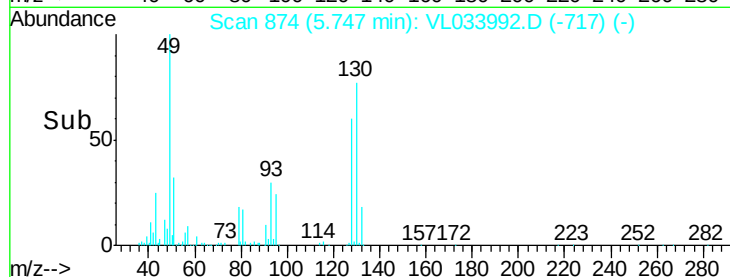
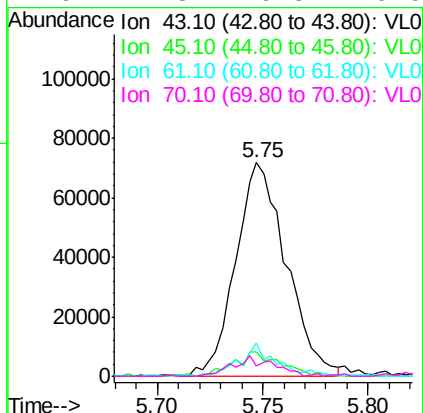
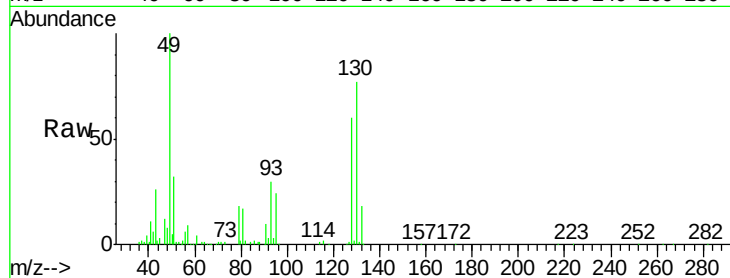
#25
Ethyl Acetate
Concen: 0.493 ppbv
RT: 5.75 min Scan# 874
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	43	Resp	119831
Ion Ratio	Lower	Upper	
43	100		
45	10.9	8.1	12.1
61	11.8	8.1	12.1
70	7.8	6.3	9.5

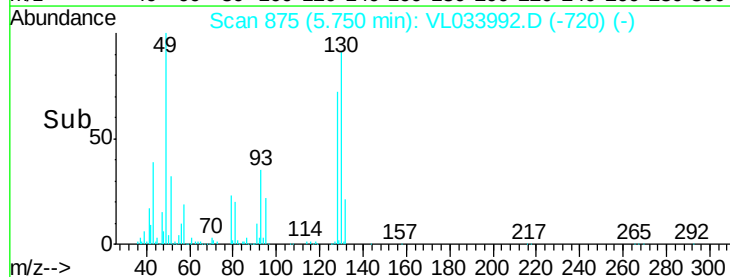
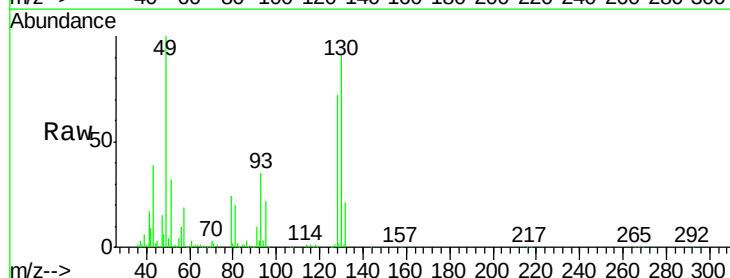
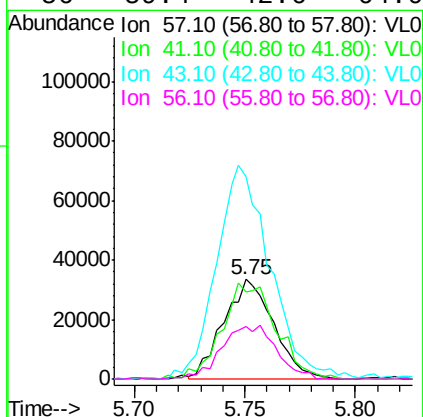
Manual Integrations
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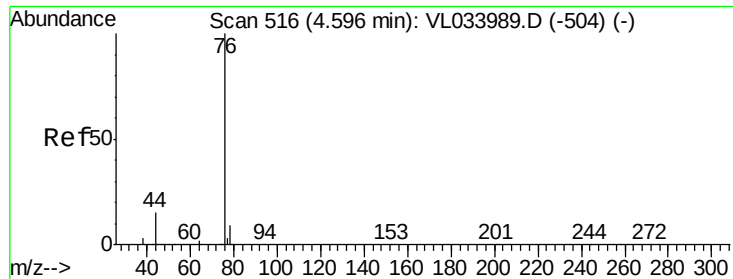
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#26
Hexane
Concen: 0.477 ppbv
RT: 5.75 min Scan# 875
Delta R.T. -0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	57	Resp	52808
Ion Ratio	Lower	Upper	
57	100		
41	105.5	70.6	105.8
43	233.9	177.6	266.4
56	59.4	42.6	64.0





#27

Carbon Disulfide

Concen: 0.564 ppbv

RT: 4.60 min Scan# 516

Delta R.T. 0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

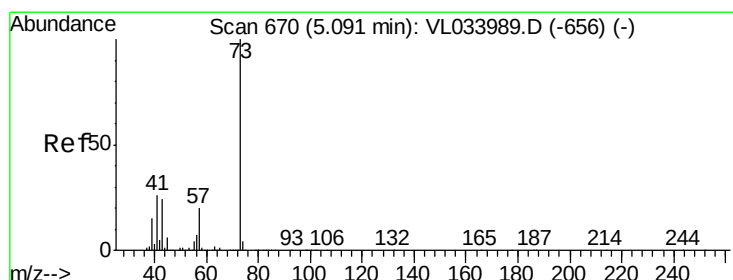
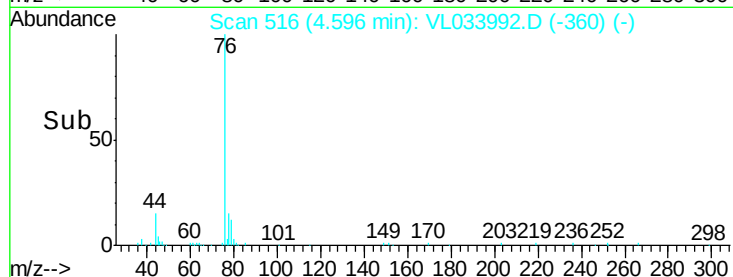
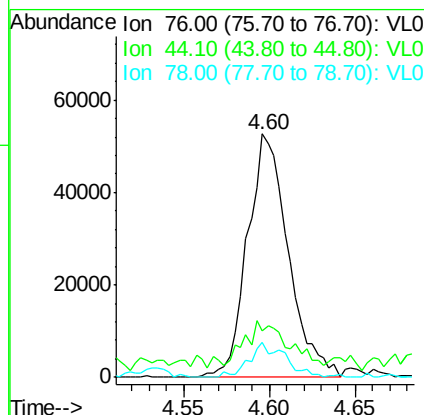
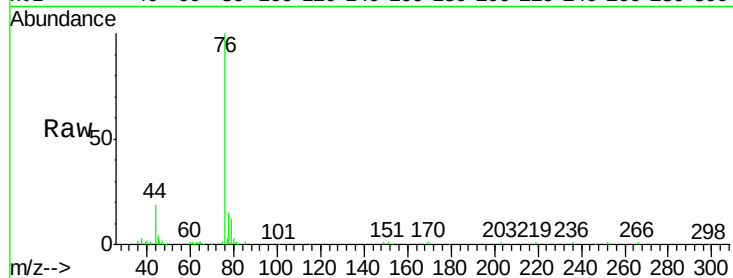
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	86736
Ion	Ratio	Lower	Upper
76	100		
44	24.4	12.6	18.8#
78	12.9	7.2	10.8#

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#28

Methyl tert-Butyl Ether

Concen: 0.530 ppbv

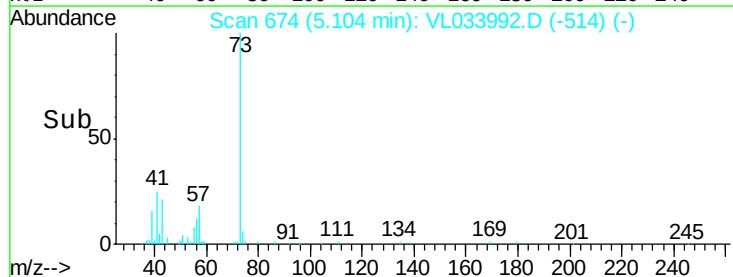
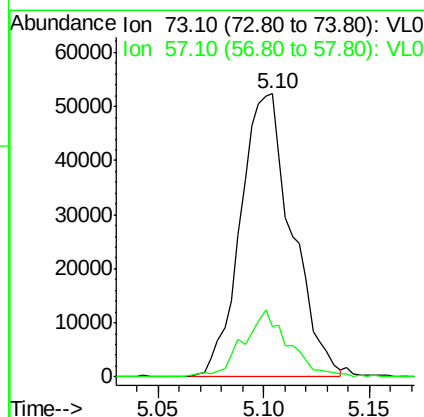
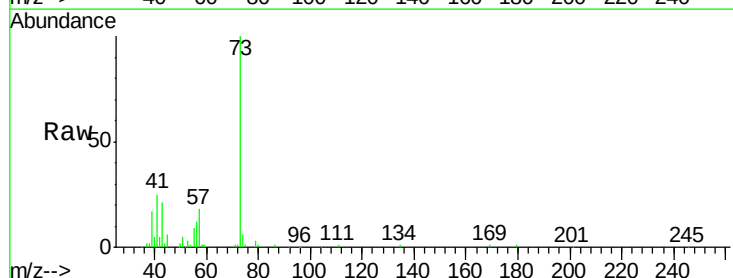
RT: 5.10 min Scan# 674

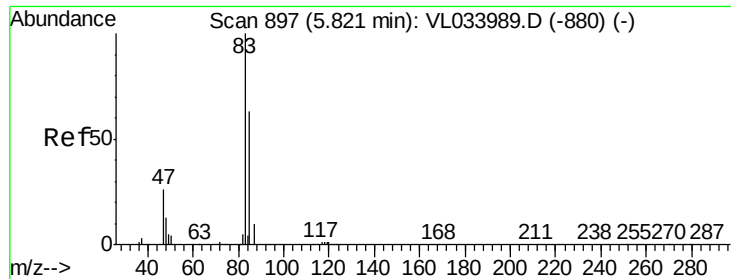
Delta R.T. 0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion:	73	Resp:	88813
Ion	Ratio	Lower	Upper
73	100		
57	21.3	16.9	25.3





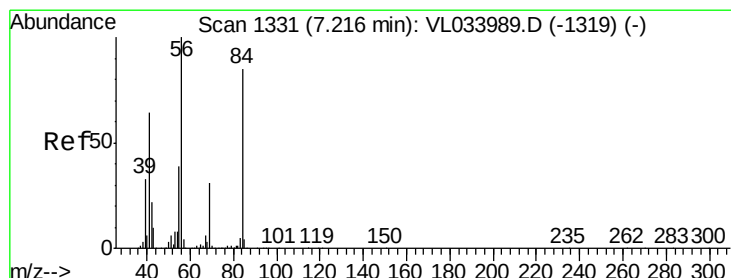
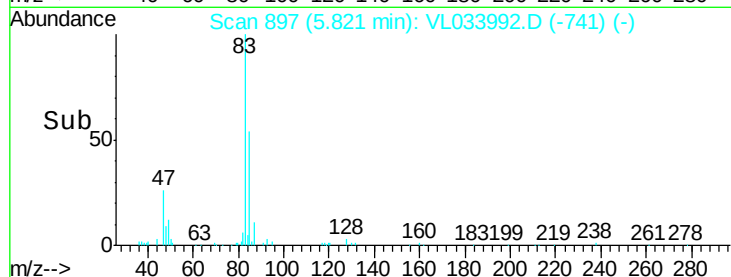
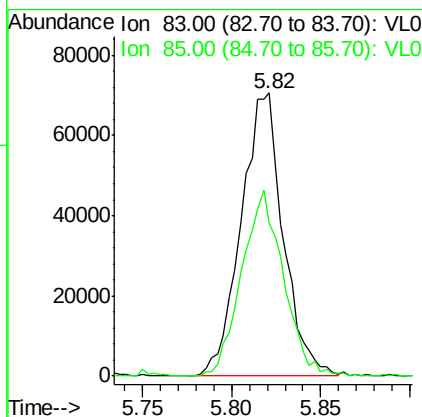
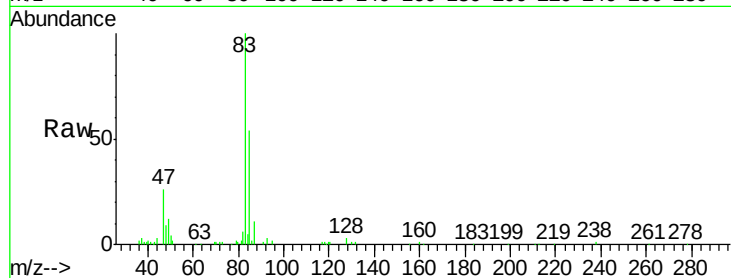
#29
Chloroform
Concen: 0.613 ppbv
RT: 5.82 min Scan# 897
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	83	Resp	116159
Ion Ratio	Lower	Upper	
83	100		
85	54.0	50.6	75.8

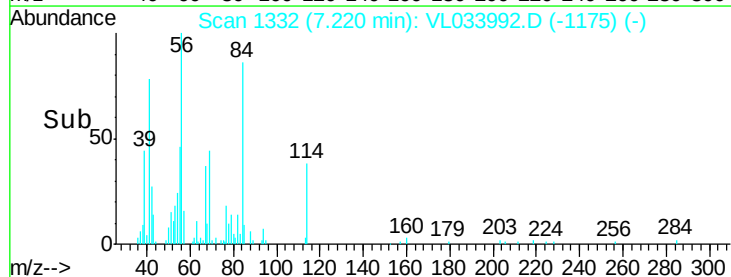
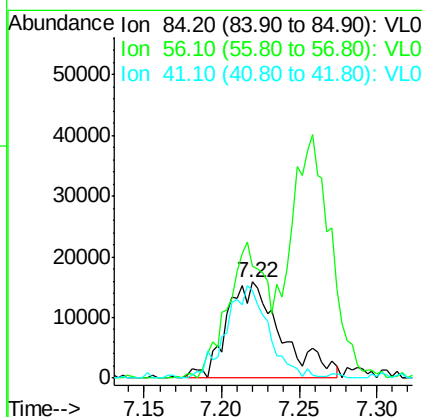
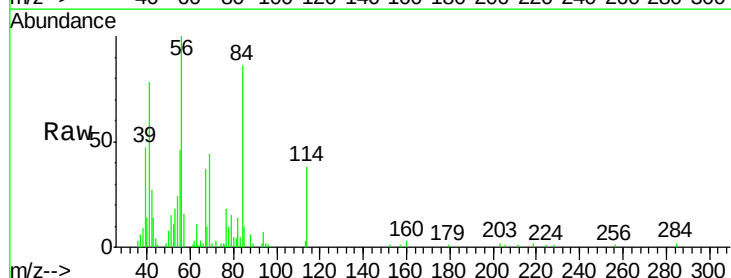
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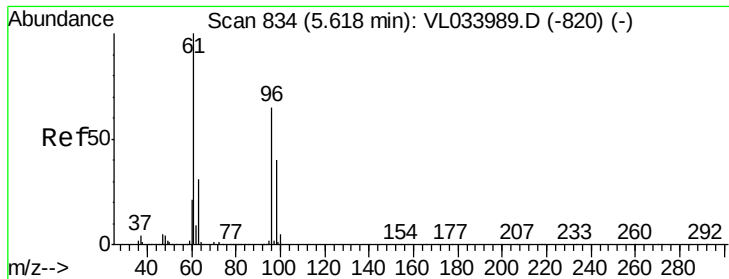
MMDadoda
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#30
Cyclohexane
Concen: 0.498 ppbv m
RT: 7.22 min Scan# 1332
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	84	Resp	38920
Ion Ratio	Lower	Upper	
84	100		
56	0.0	103.7	155.5#
41	0.0	62.6	94.0#





#31

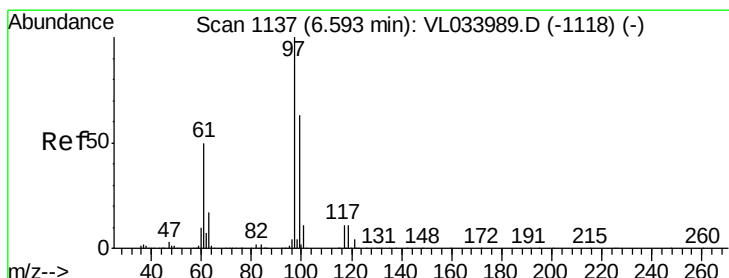
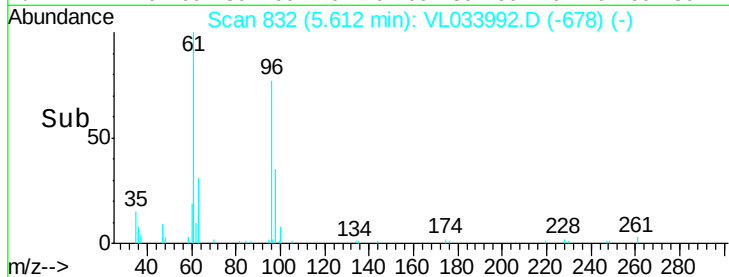
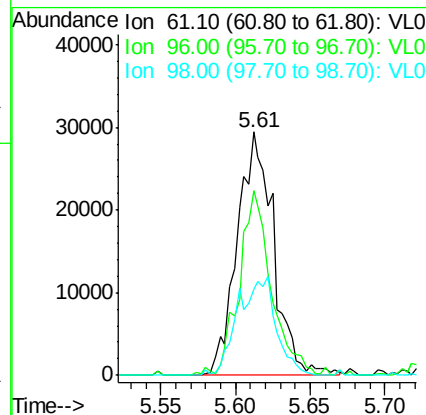
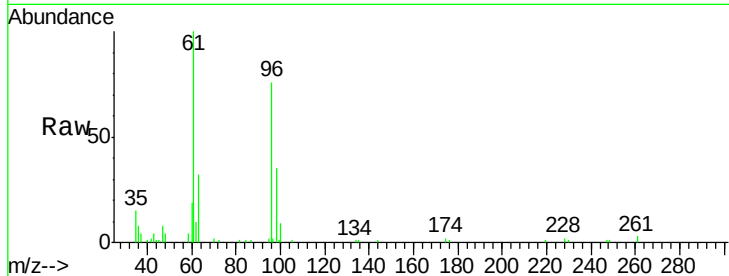
cis-1,2-Dichloroethene
 Concen: 0.518 ppbv m
 RT: 5.61 min Scan# 832
 Delta R.T. -0.01 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:	61	Resp:	50313
Ion	Ratio	Lower	Upper
61	100		
96	76.1	51.8	77.6
98	35.5	32.1	48.1

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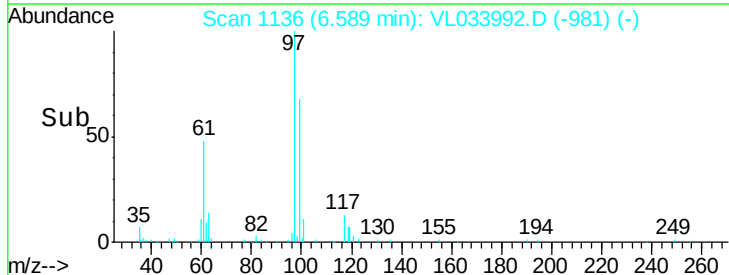
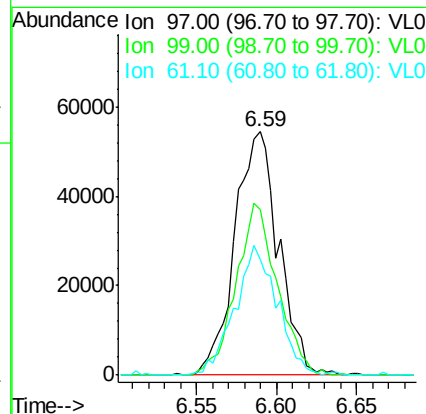
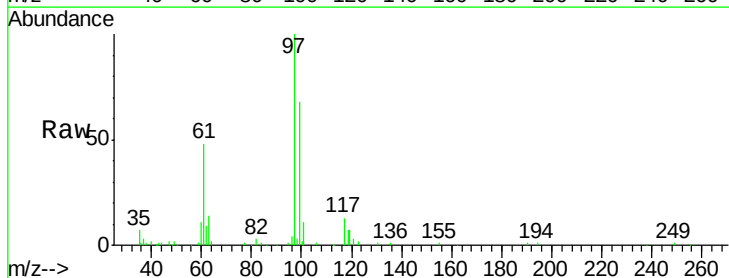
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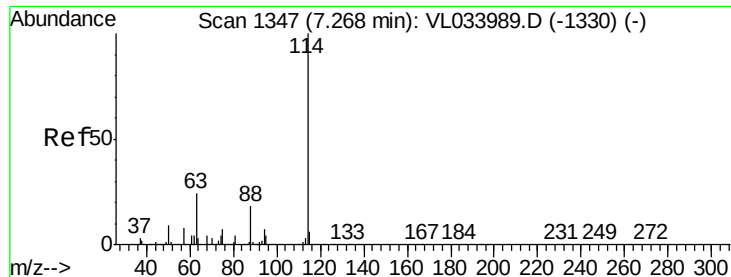


#32

1,1,1-Trichloroethane
 Concen: 0.556 ppbv
 RT: 6.59 min Scan# 1136
 Delta R.T. -0.00 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Tgt Ion:	97	Resp:	101699
Ion	Ratio	Lower	Upper
97	100		
99	66.6	51.9	77.9
61	51.6	39.8	59.8





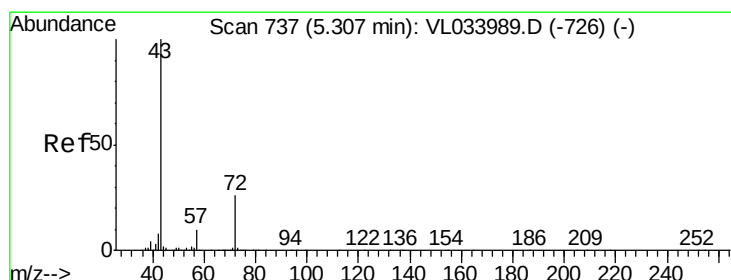
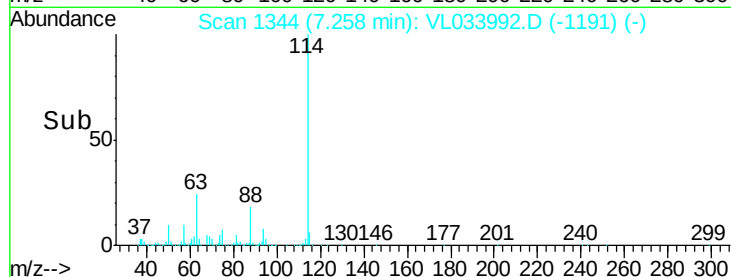
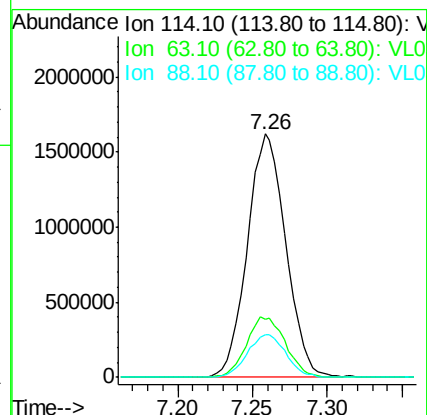
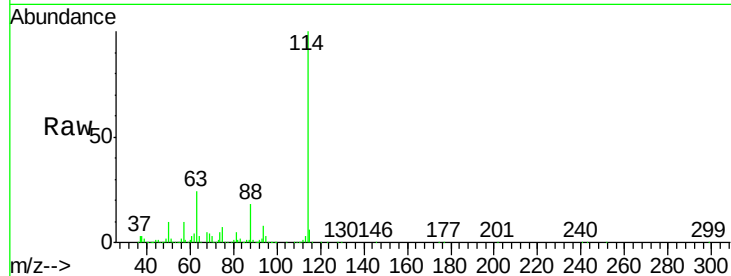
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.3	20.2	30.2
88	17.8	14.1	21.1

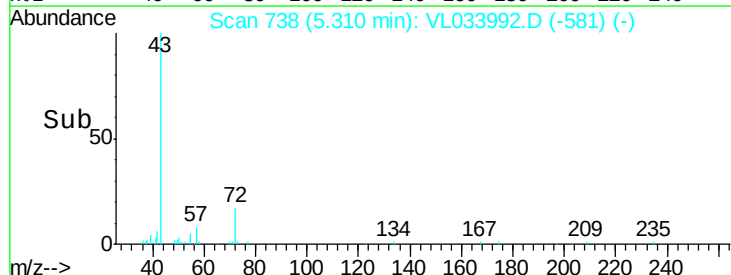
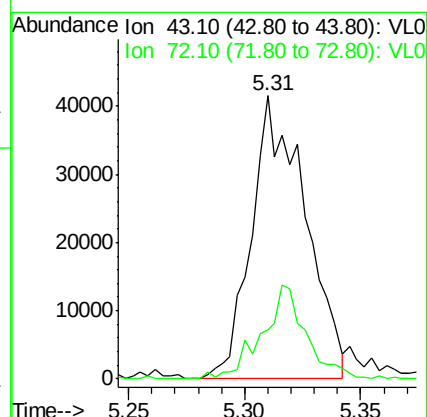
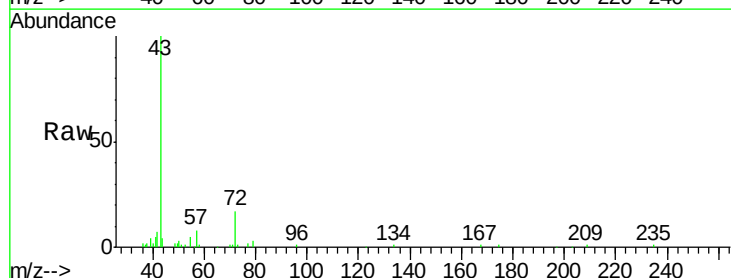
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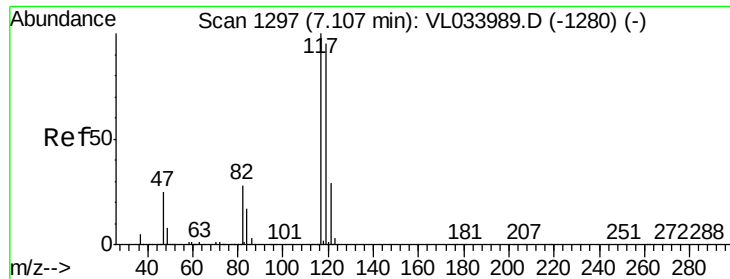
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#34
2-Butanone
Concen: 0.409 ppbv
RT: 5.31 min Scan# 738
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.0	19.9	29.9





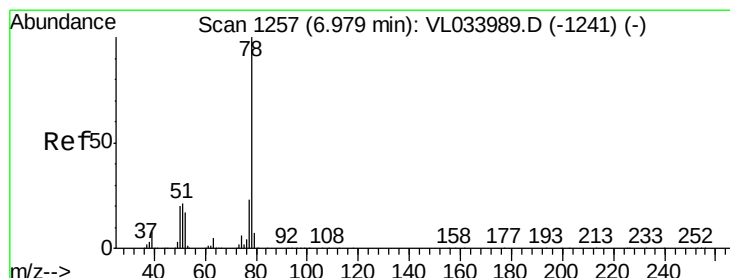
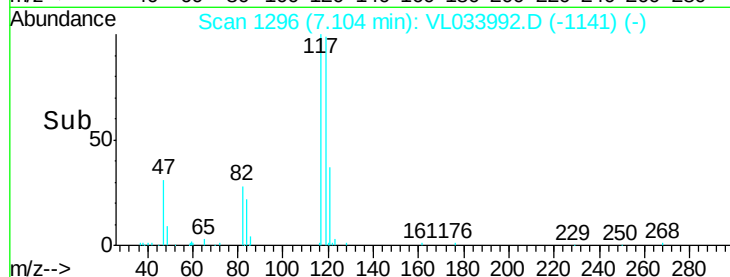
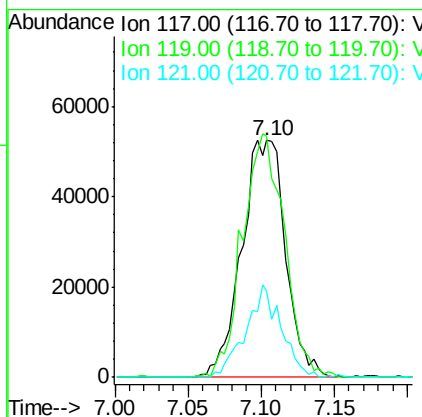
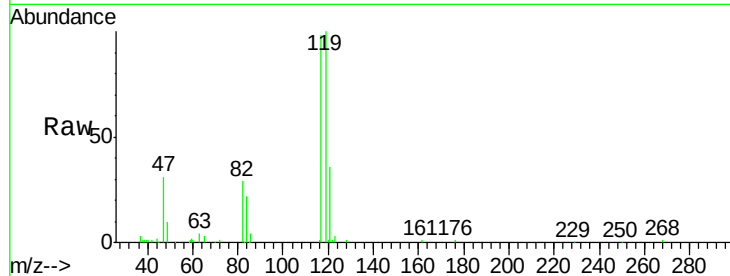
#35
Carbon Tetrachloride
Concen: 0.491 ppbv m
RT: 7.10 min Scan# 1296
Delta R.T. -0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
117	100		
119	101.7	75.8	113.6
121	36.6	23.4	35.2#

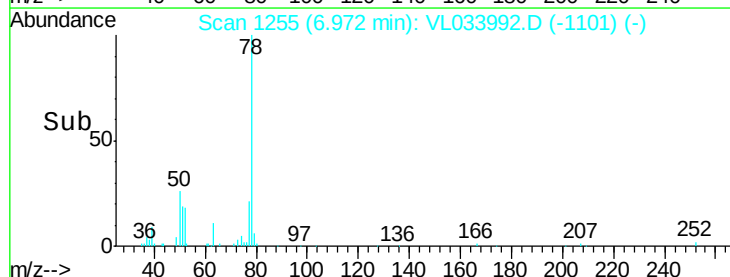
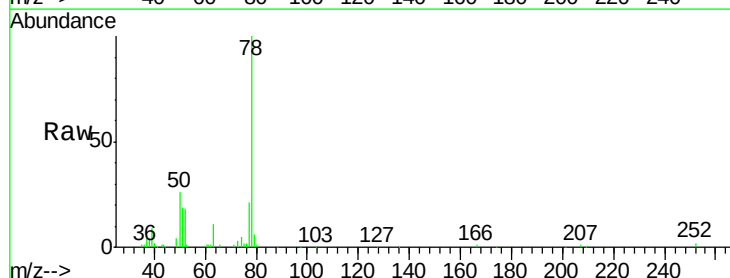
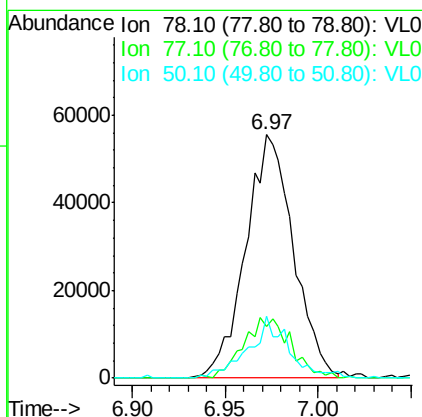
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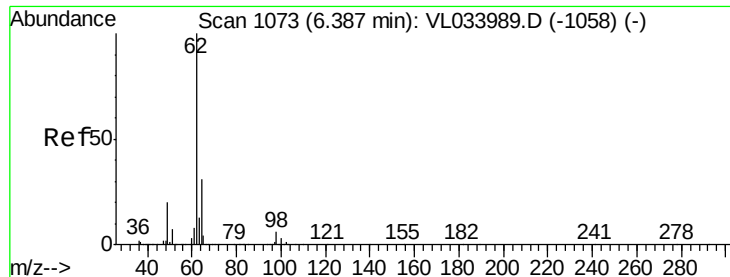
MMDadoda
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#36
Benzene
Concen: 0.452 ppbv
RT: 6.97 min Scan# 1255
Delta R.T. -0.01 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.0	18.7	28.1
50	25.7	16.2	24.2#





#37

1,2-Dichloroethane

Concen: 0.511 ppbv

RT: 6.38 min Scan# 1071

Delta R.T. -0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 83500

Ion Ratio Lower Upper

62 100

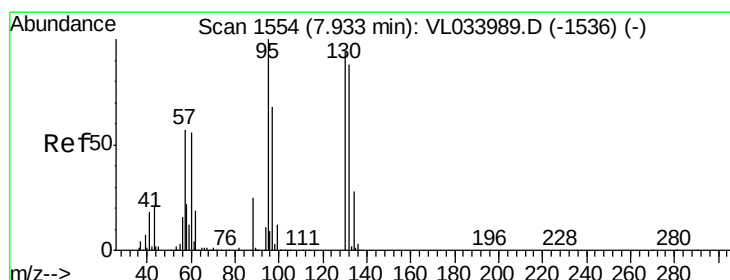
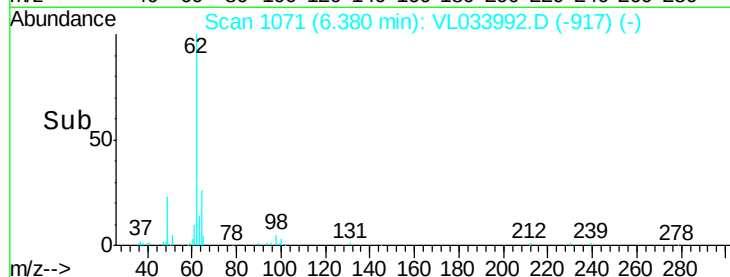
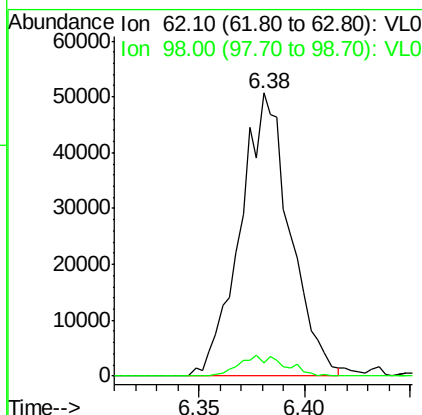
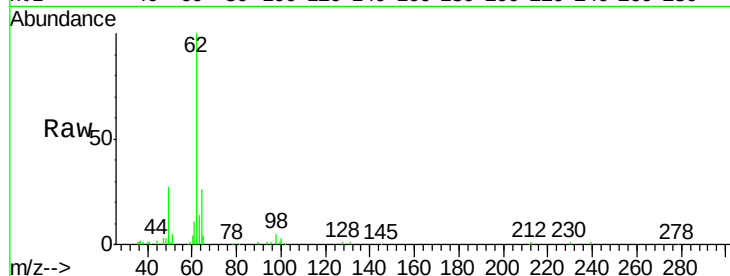
98 6.7 4.4 6.6#

Manual Integrations

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#38

Trichloroethene

Concen: 0.534 ppbv m

RT: 7.93 min Scan# 1553

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion: 130 Resp: 45952

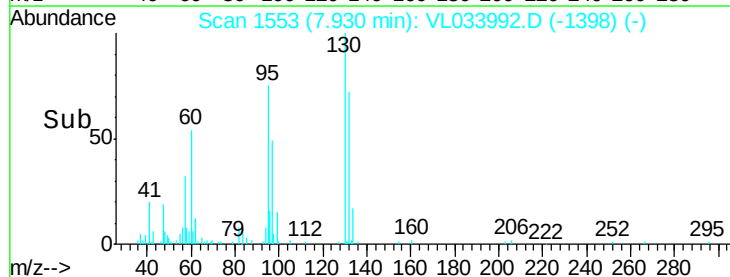
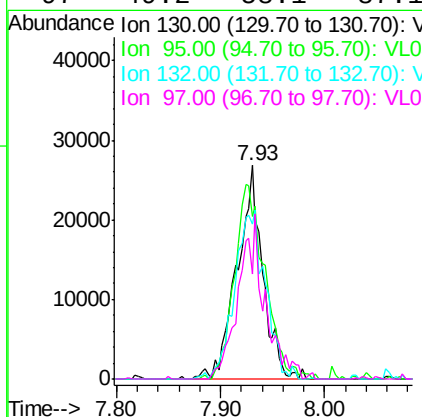
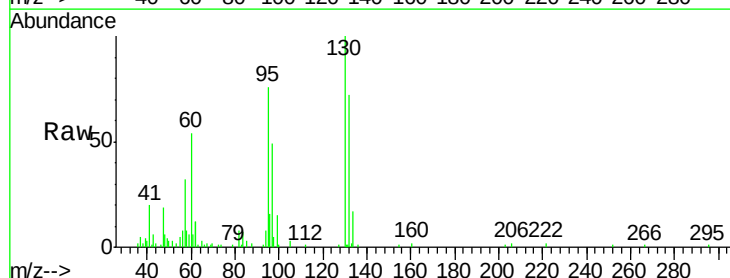
Ion Ratio Lower Upper

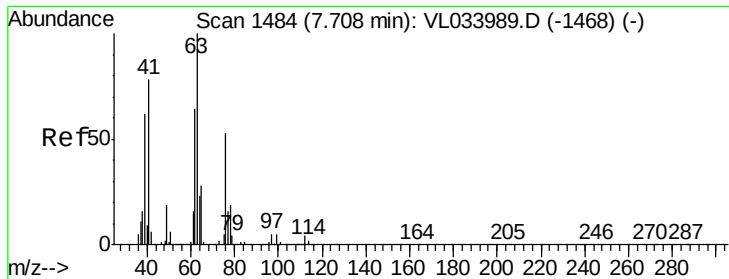
130 100

95 76.1 85.5 128.3#

132 72.3 75.1 112.7#

97 49.2 58.1 87.1#





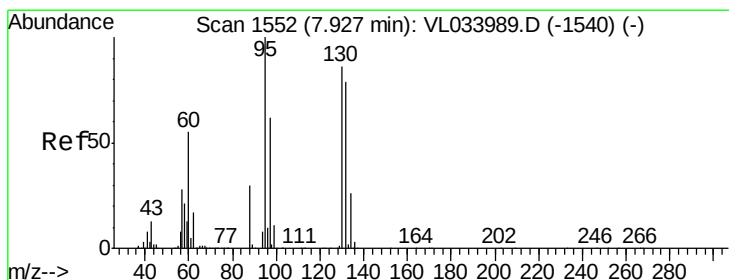
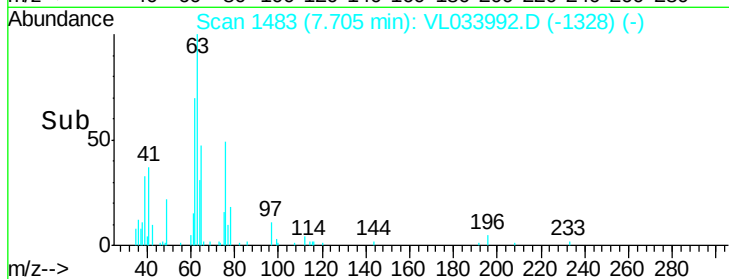
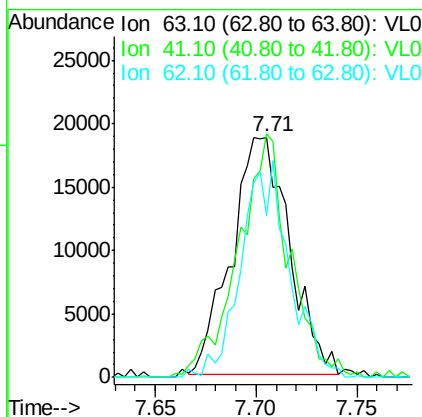
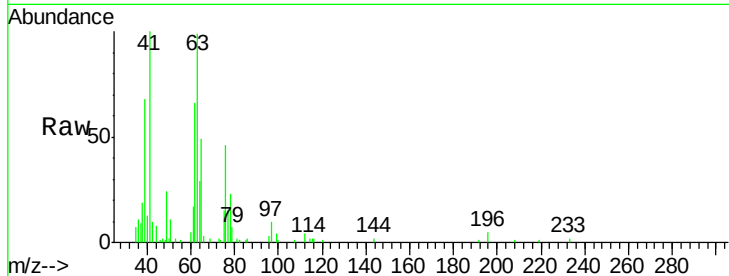
#39
 1,2-Dichloropropane
 Concen: 0.443 ppbv
 RT: 7.71 min Scan# 1483
 Delta R.T. -0.00 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	97.4	62.3	93.5#
62	64.0	51.4	77.2

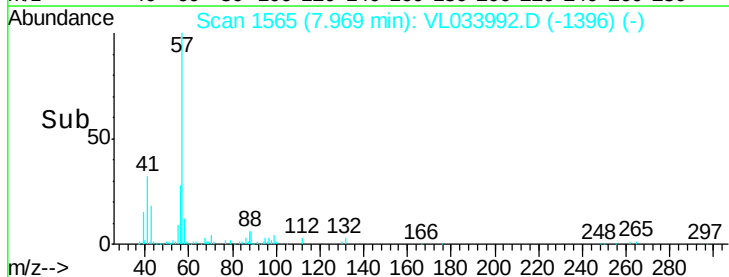
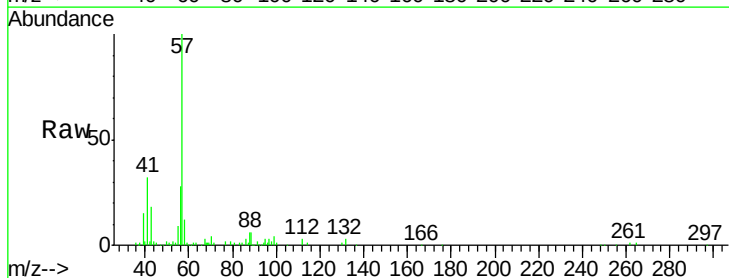
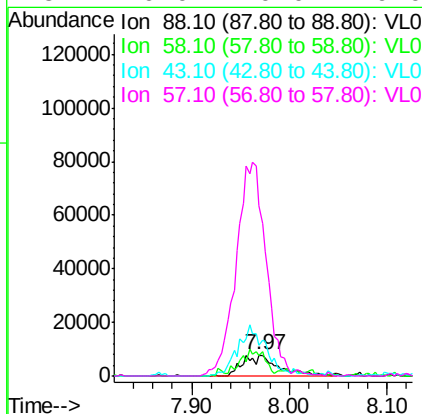
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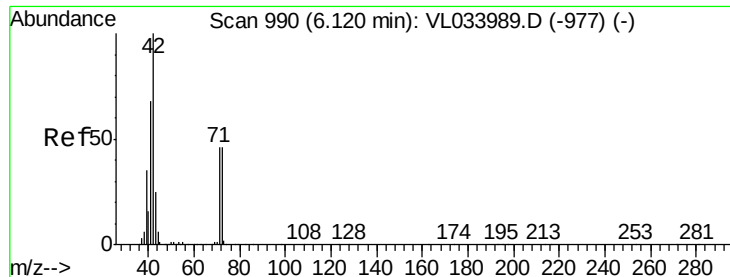
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#40
 1,4-Dioxane
 Concen: 0.578 ppbv m
 RT: 7.97 min Scan# 1565
 Delta R.T. 0.04 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
88	100		
58	0.0	99.1	148.7#
43	0.0	0.0	0.0
57	0.0	0.0	0.0





#41

Tetrahydrofuran

Concen: 0.356 ppbv m

RT: 6.14 min Scan# 995

Delta R.T. 0.02 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

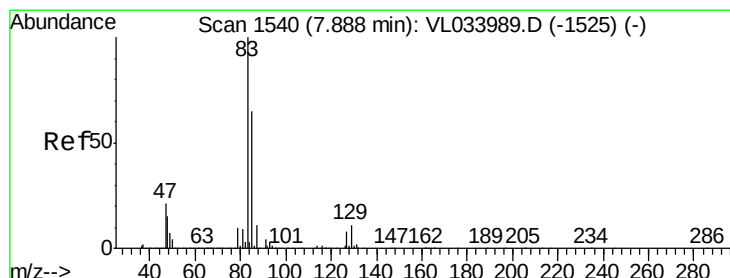
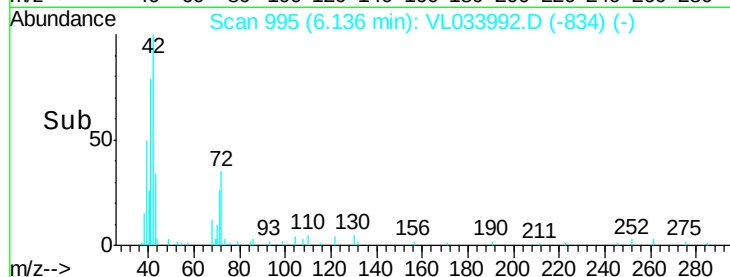
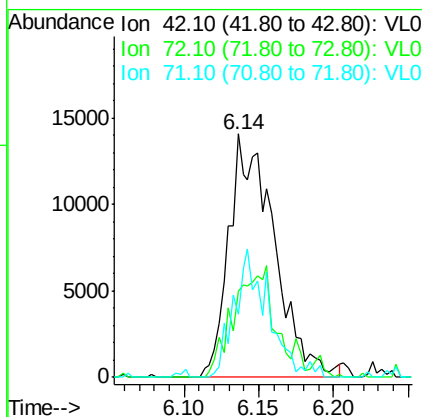
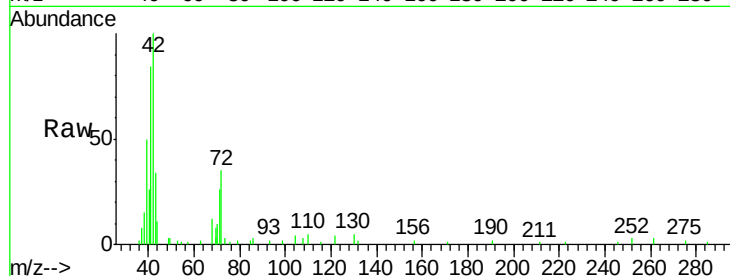
ClientSampleId :

VSTDIC0.5

Tot Ion:	42	Resp:	29489
Ion Ratio	Lower	Upper	
42	100		
72	0.0	37.3	55.9#
71	0.0	36.2	54.2#

Manual Integrations
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#42

Bromodichloromethane

Concen: 0.490 ppbv

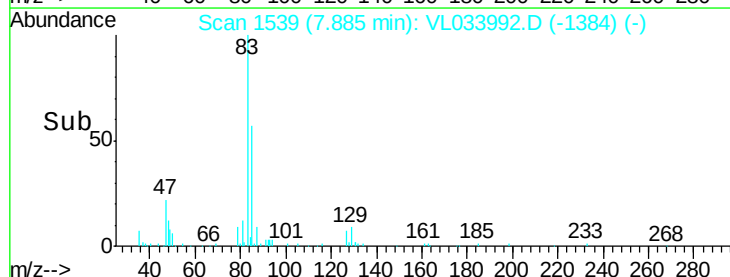
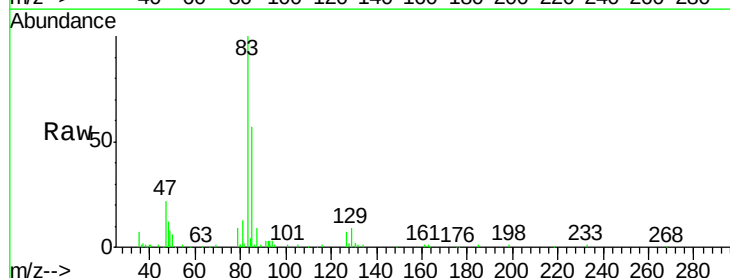
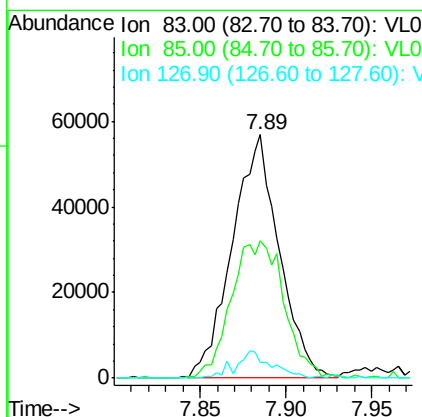
RT: 7.89 min Scan# 1539

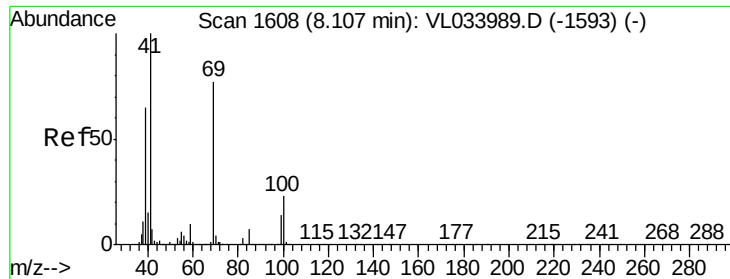
Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion:	83	Resp:	107154
Ion Ratio	Lower	Upper	
83	100		
85	56.0	51.8	77.8
127	6.6	6.5	9.7





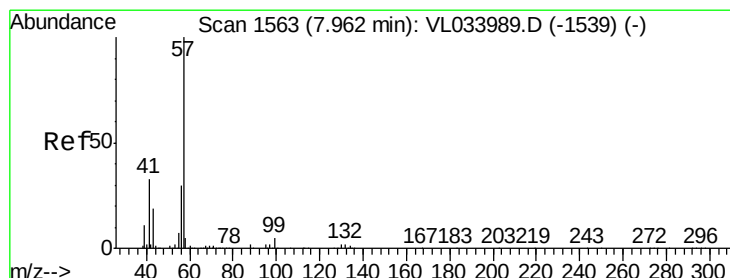
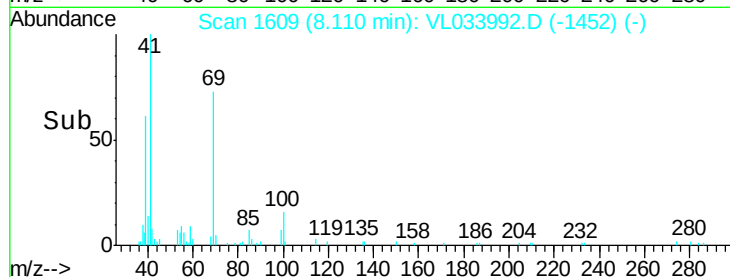
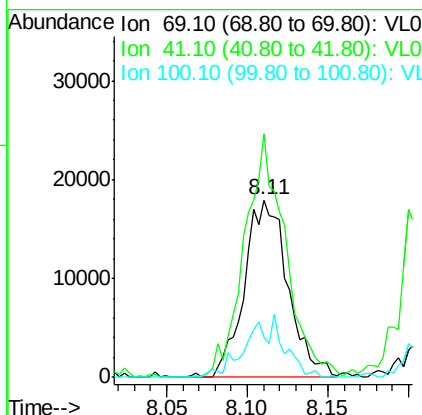
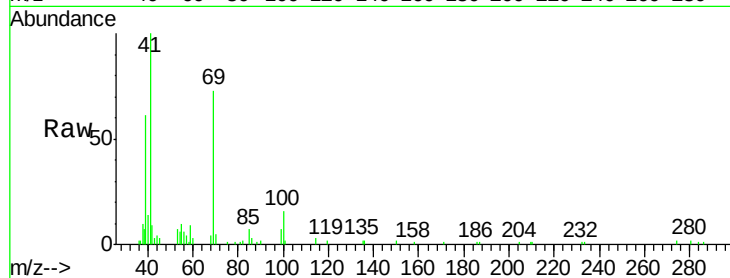
#43
Methyl Methacrylate
Concen: 0.412 ppbv m
RT: 8.11 min Scan# 1609
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	128.1	109.1	163.7
100	30.0	25.3	37.9

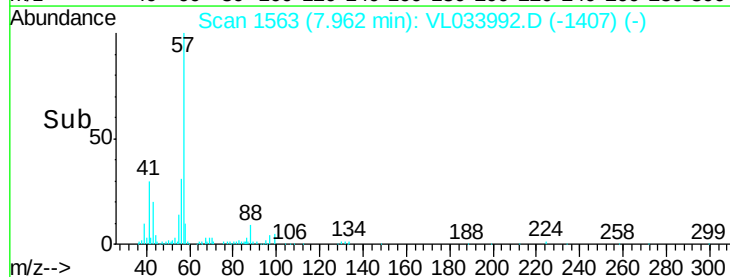
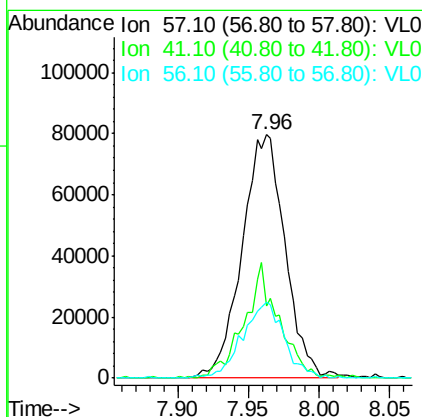
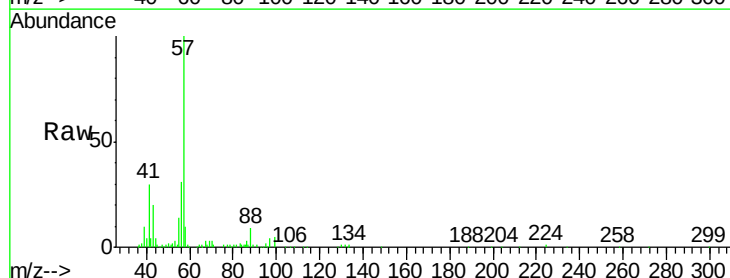
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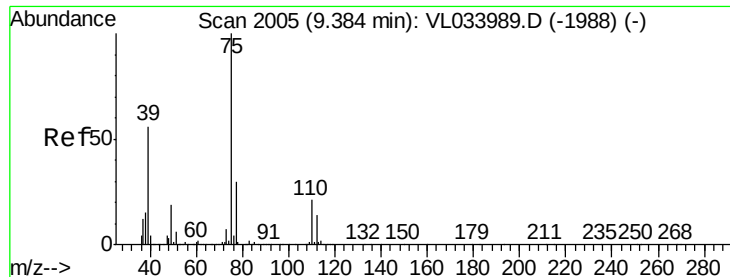
MMDadoda
7/3/2019 11:03:31 PM



#44
2,2,4-Trimethylpentane
Concen: 0.431 ppbv m
RT: 7.96 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
57	100		
41	0.0	26.1	39.1#
56	0.0	24.4	36.6#





#45

t-1,3-Dichloropropene

Concen: 0.365 ppbv m

RT: 9.38 min Scan# 2005

Delta R.T. 0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 39573

Ion Ratio Lower Upper

75 100

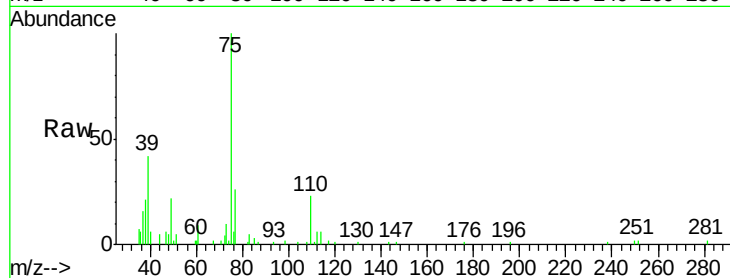
77 25.6 24.3 36.5

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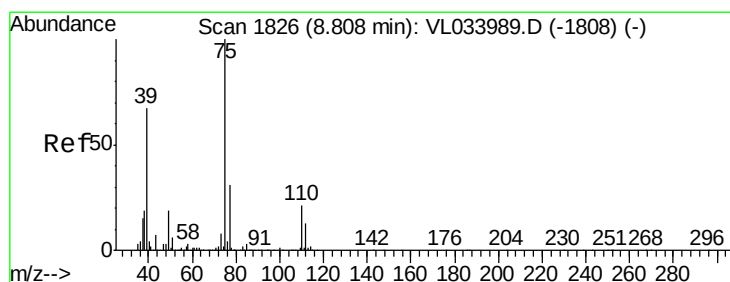
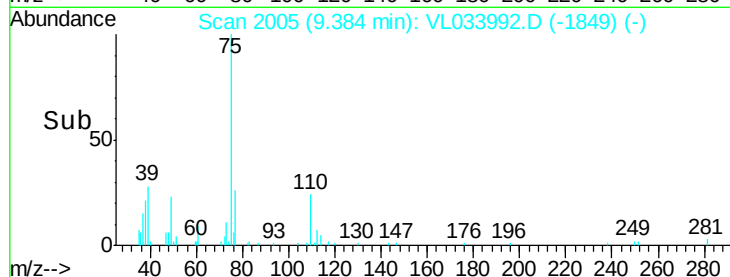
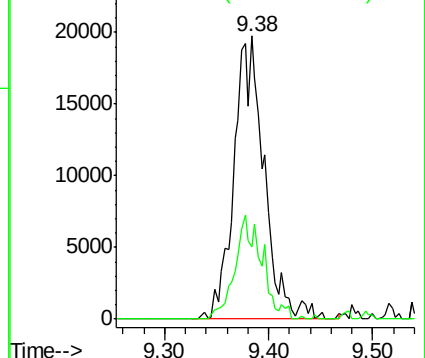
MMDadoda

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Abundance Ion 75.10 (74.80 to 75.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#46

cis-1,3-Dichloropropene

Concen: 0.388 ppbv m

RT: 8.80 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

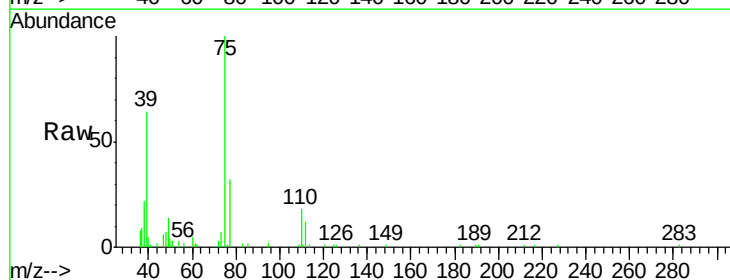
Tgt Ion: 75 Resp: 48215

Ion Ratio Lower Upper

75 100

39 63.6 53.8 80.6

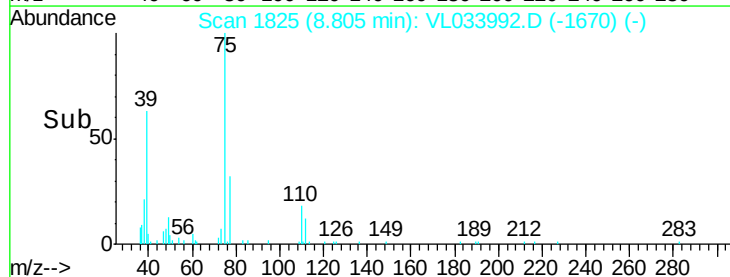
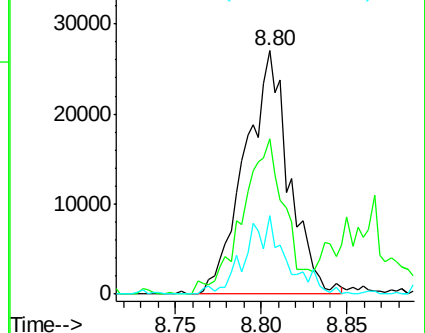
77 32.4 24.5 36.7

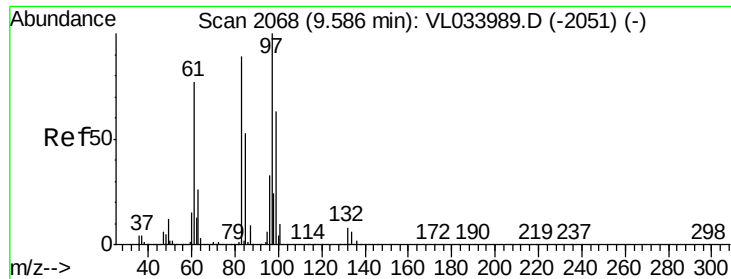


Abundance Ion 75.00 (74.70 to 75.70): VL0

Ion 39.00 (38.70 to 39.70): VL0

Ion 77.00 (76.70 to 77.70): VL0





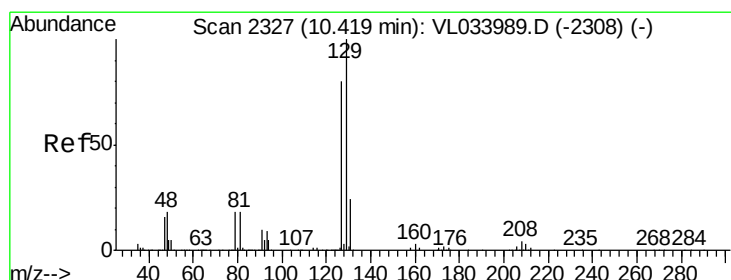
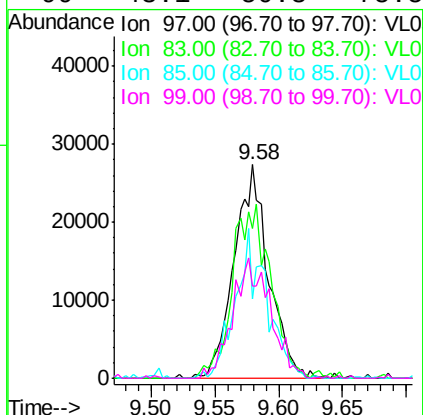
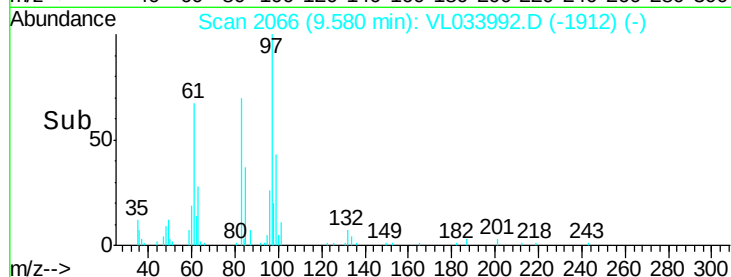
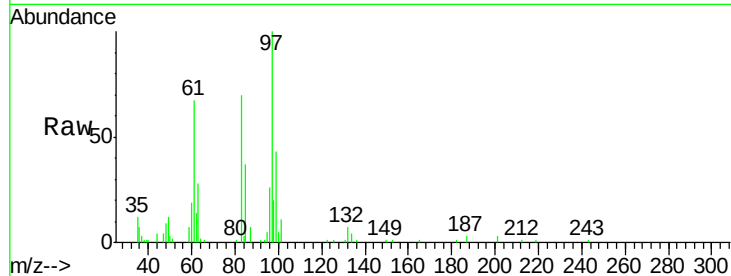
#47
 1,1,2-Trichloroethane
 Concen: 0.502 ppbv m
 RT: 9.58 min Scan# 2066
 Delta R.T. -0.01 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		51106		
83	70.2	71.1	106.7#		
85	37.2	42.6	64.0#		
99	43.1	50.3	75.5#		

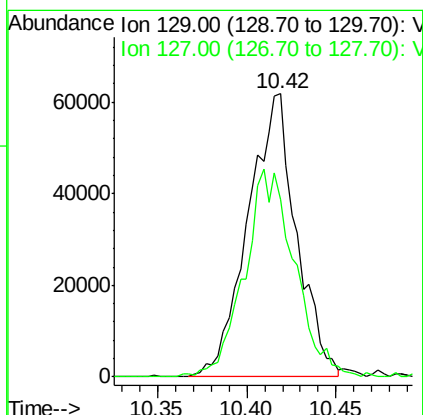
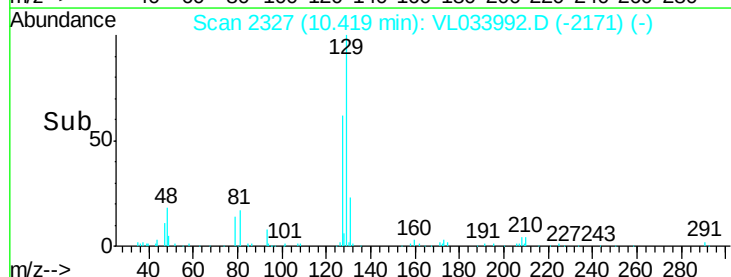
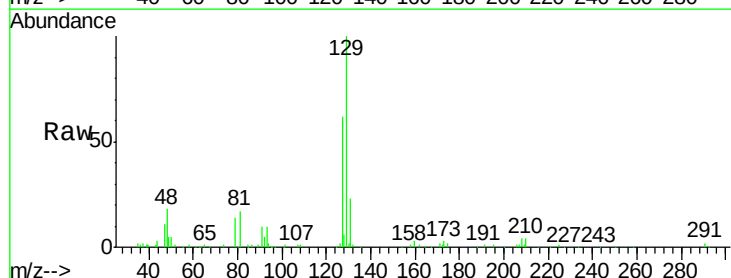
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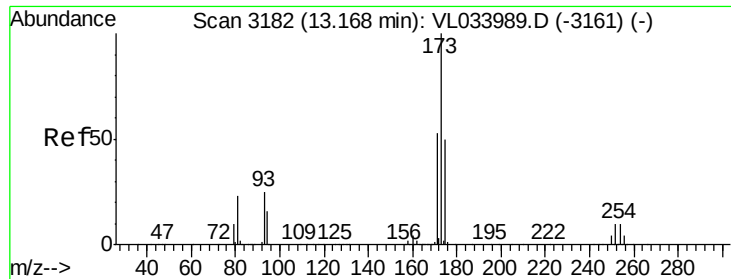
MMDadoda
 7/3/2019 11:03:31 PM



#48
 Dibromochloromethane
 Concen: 0.642 ppbv
 RT: 10.42 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
129	100		117419		
127	75.9	39.1	117.3		





#49

Bromoform

Concen: 0.458 ppbv m

RT: 13.16 min Scan# 3180

Delta R.T. -0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:173 Resp: 73870

Ion Ratio Lower Upper

173 100

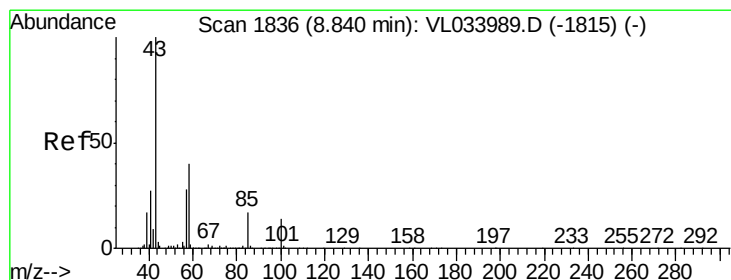
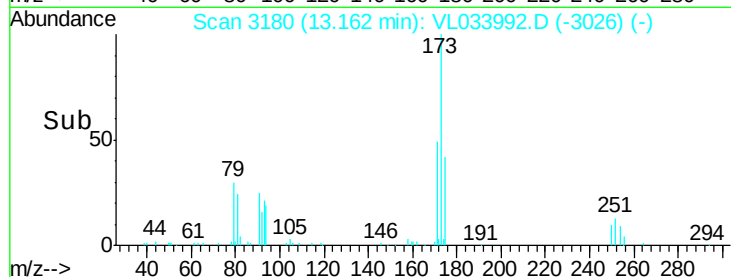
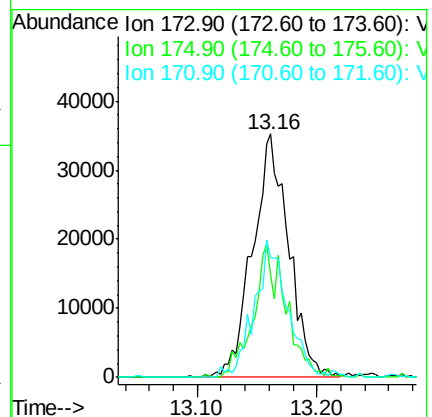
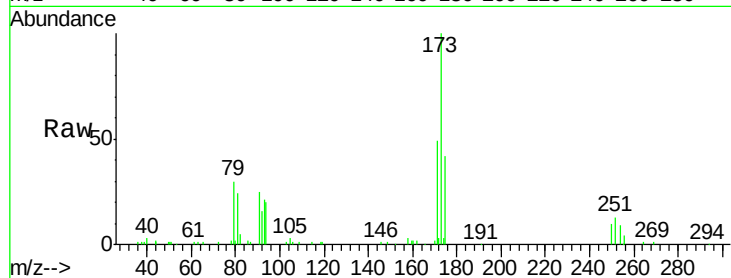
175 49.7 39.3 58.9

171 52.2 41.4 62.0

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#50

4-Methyl-2-Pentanone

Concen: 0.368 ppbv m

RT: 8.86 min Scan# 1841

Delta R.T. 0.02 min

Lab File: VL033992.D

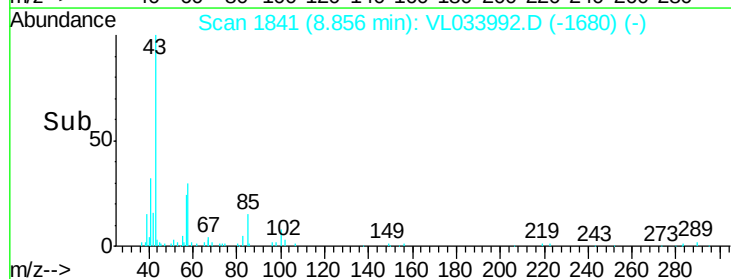
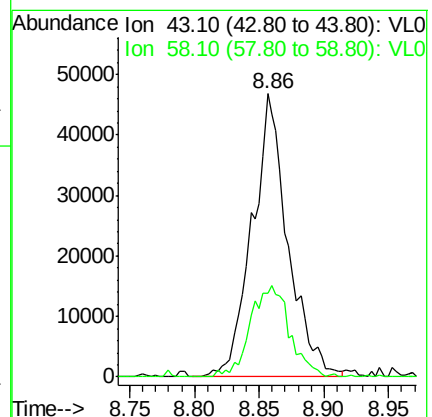
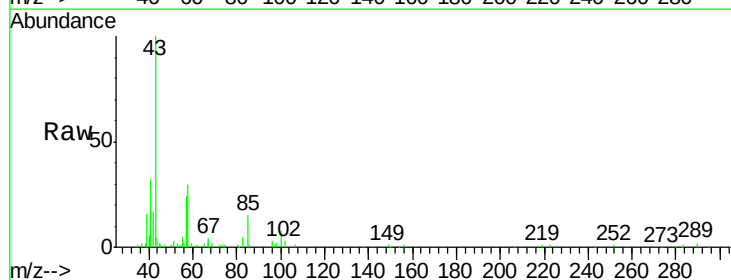
Acq: 2 Jul 2019 15:36

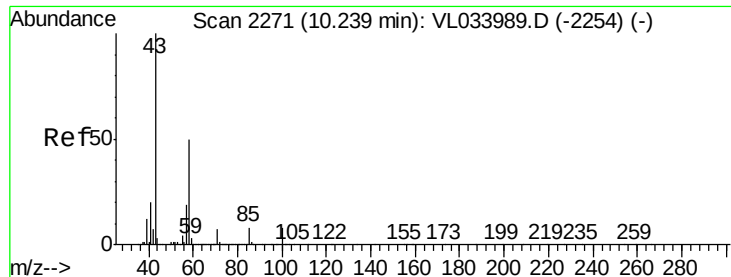
Tgt Ion: 43 Resp: 89690

Ion Ratio Lower Upper

43 100

58 0.0 30.3 45.5#





#51

2-Hexanone

Concen: 0.450 ppbv m

RT: 10.26 min Scan# 2279

Delta R.T. 0.03 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

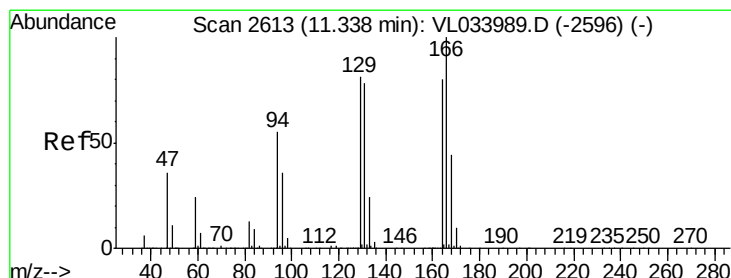
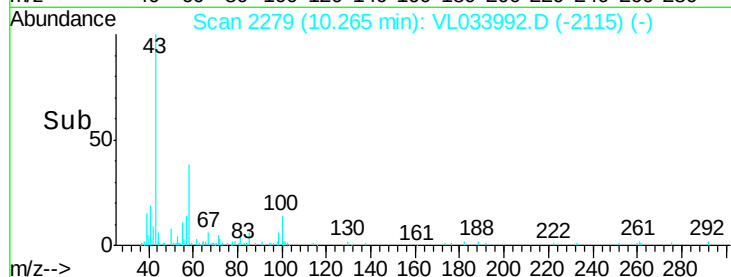
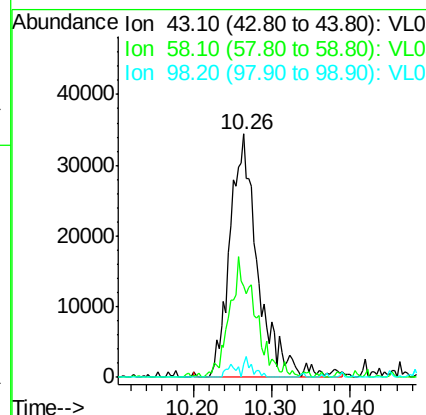
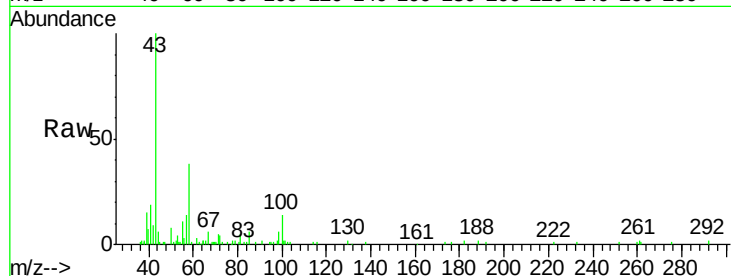
VSTDIC0.5

Tot Ion: 43 Resp: 85628

Ion	Ratio	Lower	Upper
43	100		
58	46.3	41.0	61.4
98	4.6	0.2	0.2#

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#52

Tetrachloroethene

Concen: 0.577 ppbv m

RT: 11.34 min Scan# 2613

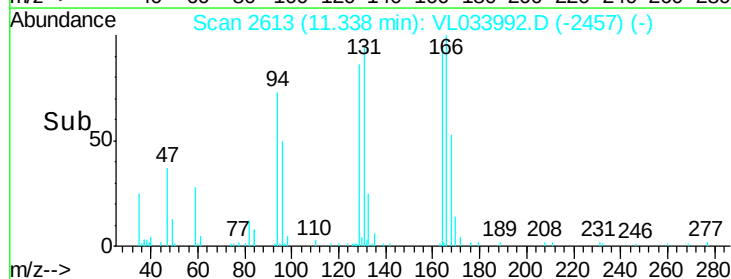
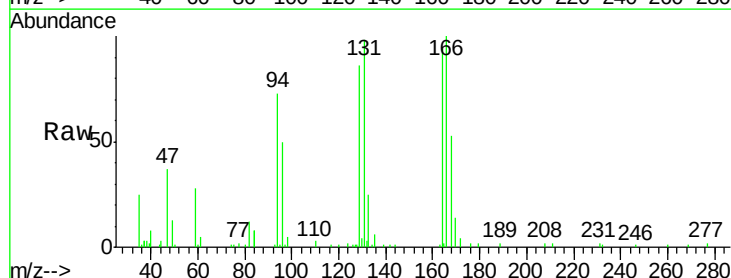
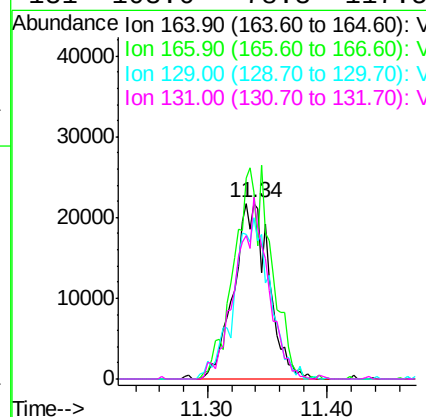
Delta R.T. 0.00 min

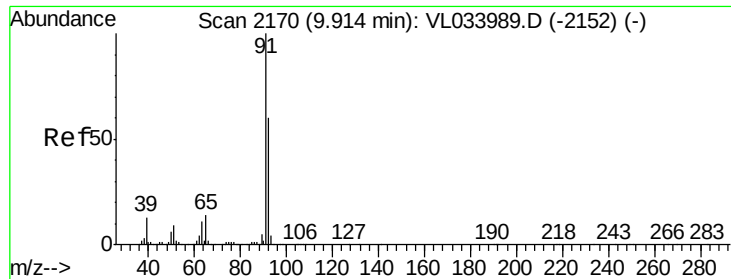
Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion: 164 Resp: 44860

Ion	Ratio	Lower	Upper
164	100		
166	106.0	100.2	150.2
129	91.5	81.0	121.6
131	103.6	78.3	117.5





#53

Toluene

Concen: 0.375 ppbv

RT: 9.91 min Scan# 2168

Delta R.T. -0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 91753

Ion Ratio Lower Upper

91 100

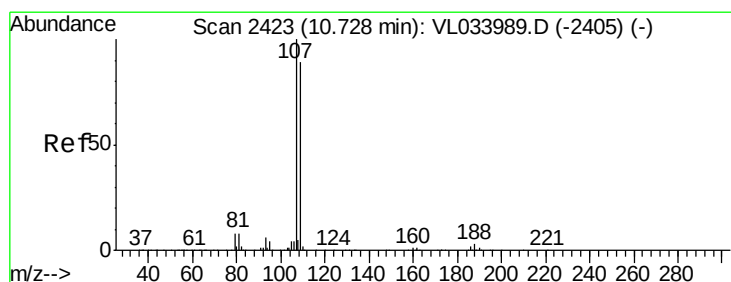
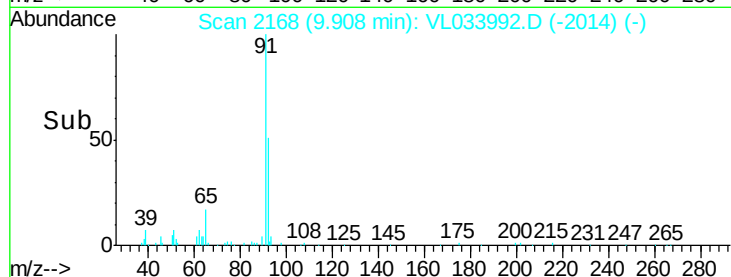
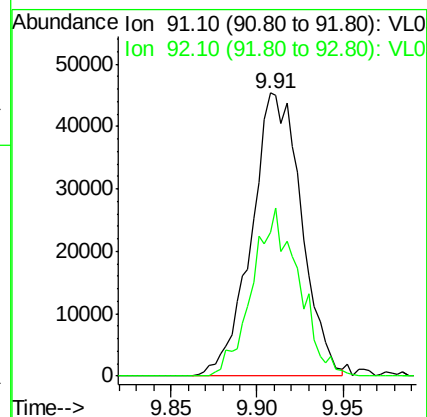
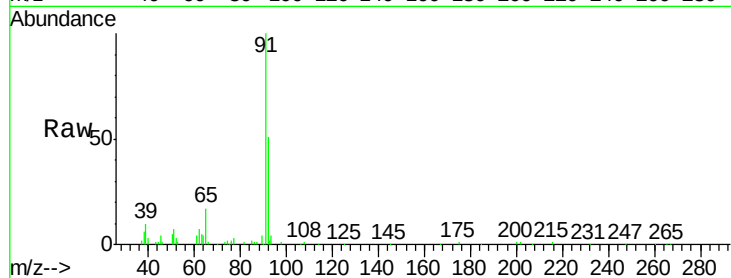
92 55.1 47.7 71.5

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#54

1,2-Dibromoethane

Concen: 0.432 ppbv

RT: 10.72 min Scan# 2421

Delta R.T. -0.01 min

Lab File: VL033992.D

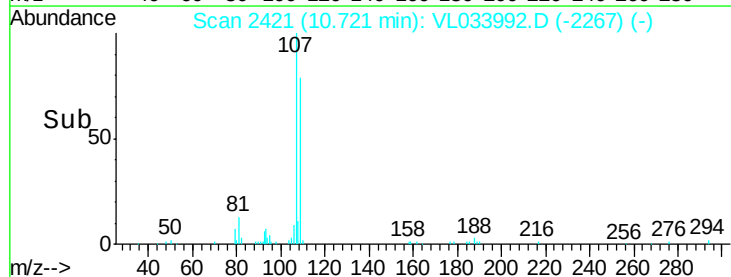
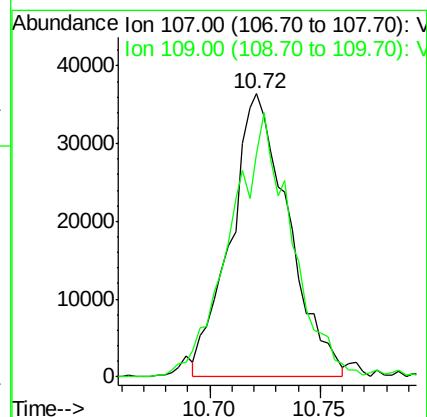
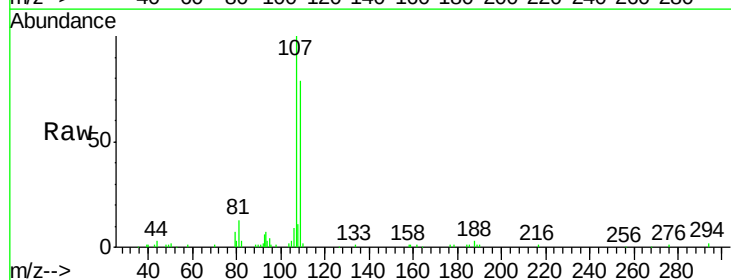
Acq: 2 Jul 2019 15:36

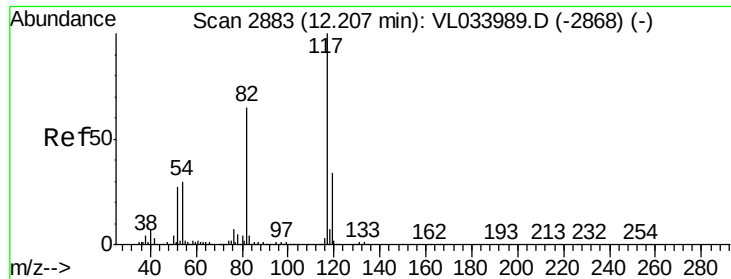
Tgt Ion: 107 Resp: 66286

Ion Ratio Lower Upper

107 100

109 76.5 71.5 107.3





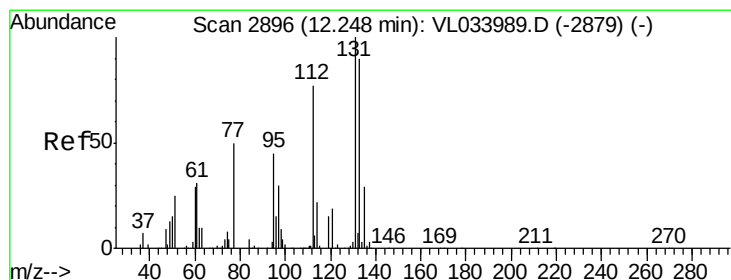
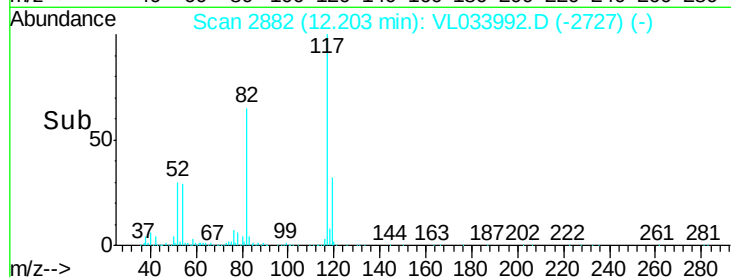
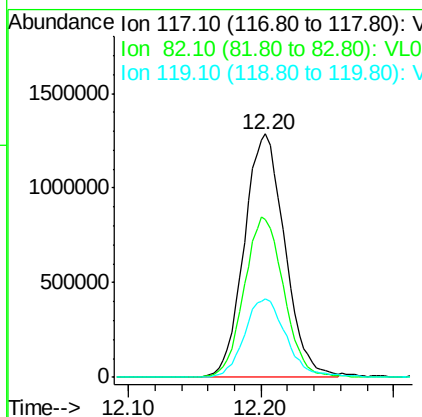
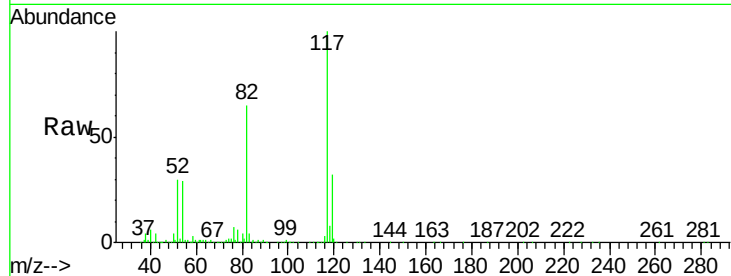
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.20 min Scan# 2882
Delta R.T. -0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:117 Resp: 2742008
Ion Ratio Lower Upper
117 100
82 64.6 50.8 76.2
119 33.4 24.0 36.0

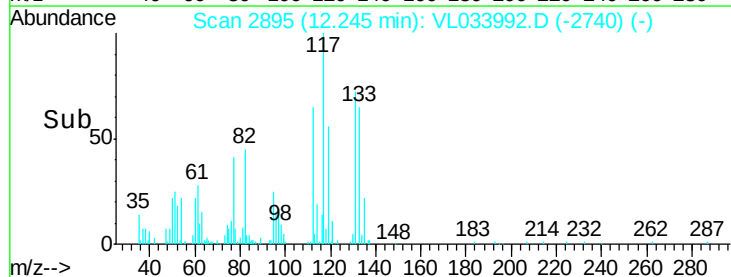
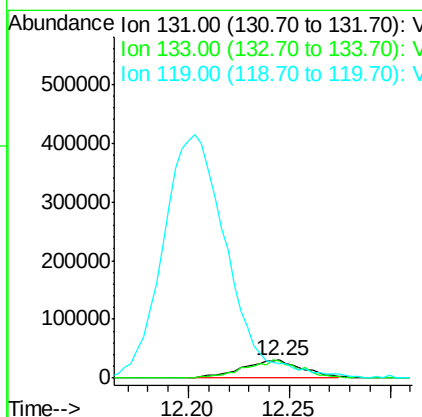
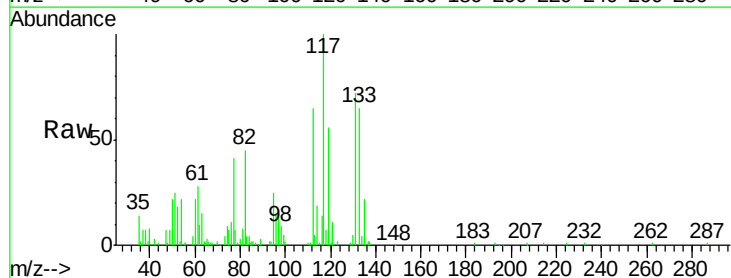
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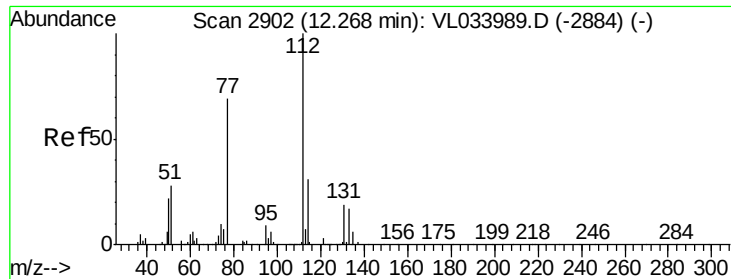
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.521 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion:131 Resp: 62389
Ion Ratio Lower Upper
131 100
133 94.8 76.2 114.2
119 1471.3 43.1 64.7#





#57

Chlorobenzene

Concen: 0.556 ppbv m

RT: 12.26 min Scan# 2899

Delta R.T. -0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

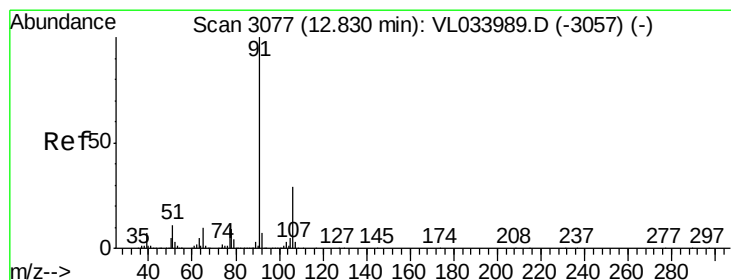
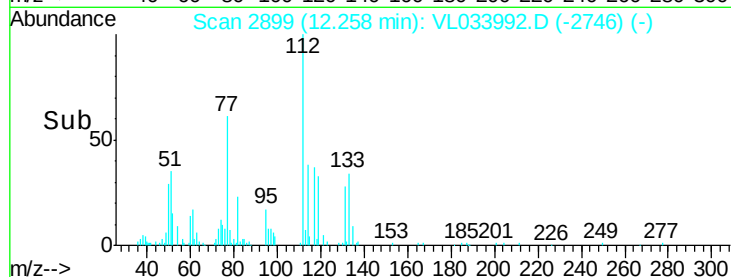
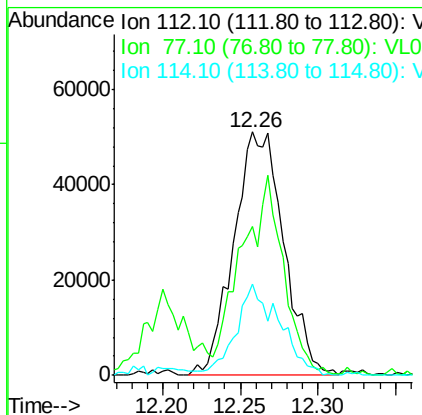
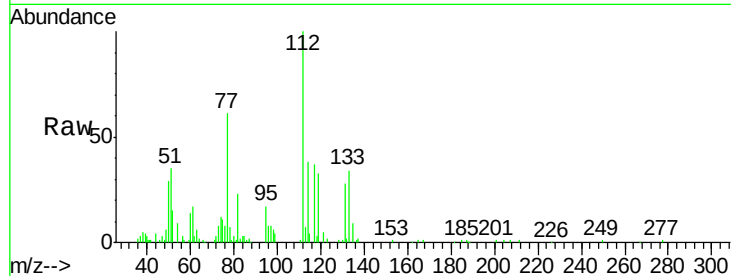
ClientSampleId :

VSTDIC0.5

Tot Ion:	112	Resp:	114132
Ion Ratio	Lower	Upper	
112	100		
77	61.3	55.9	83.9
114	37.7	27.6	33.8#

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#58

Ethyl Benzene

Concen: 0.402 ppbv

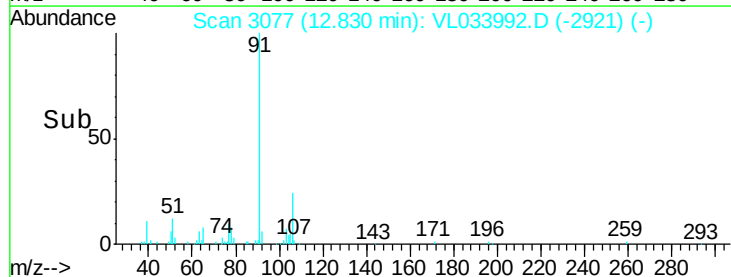
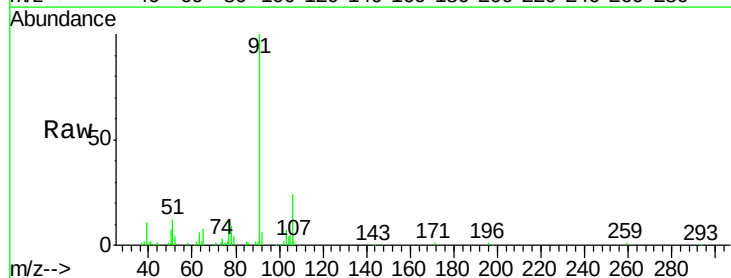
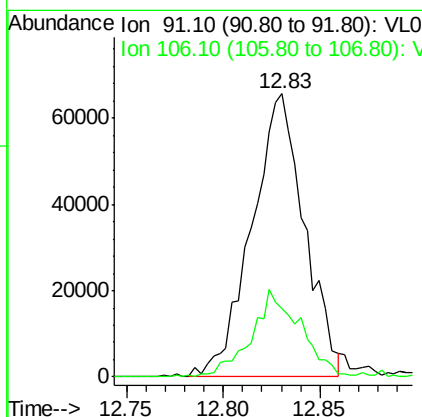
RT: 12.83 min Scan# 3077

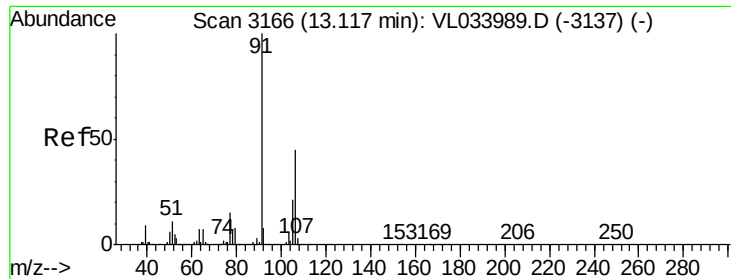
Delta R.T. 0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion:	91	Resp:	124140
Ion Ratio	Lower	Upper	
91	100		
106	23.6	23.3	34.9





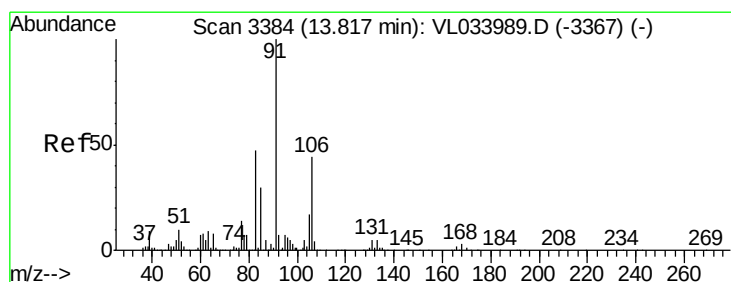
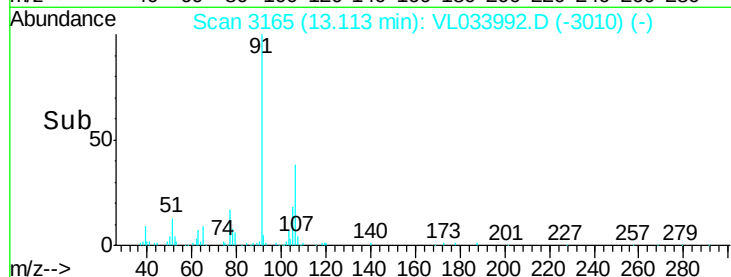
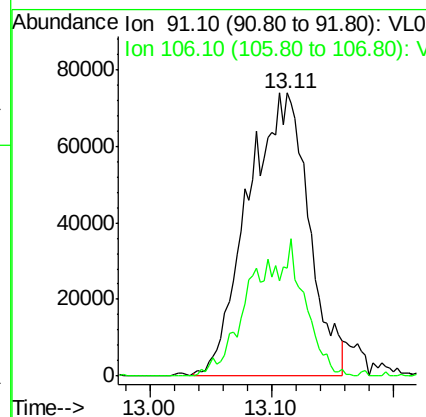
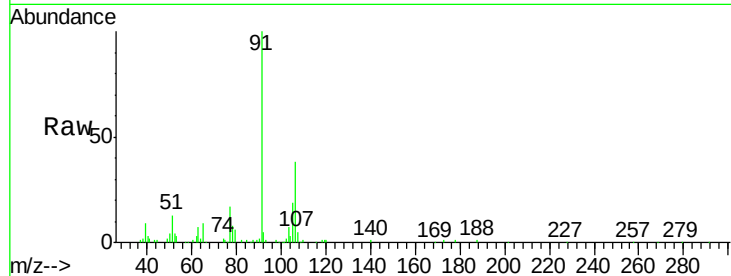
#59
m/p-Xylene
Concen: 0.913 ppbv m
RT: 13.11 min Scan# 3165
Delta R.T. -0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
91	100		
106	42.4	35.7	53.5

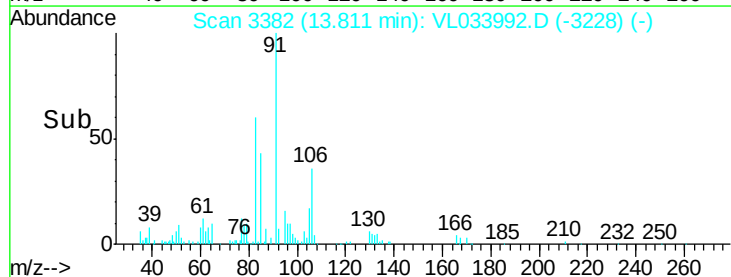
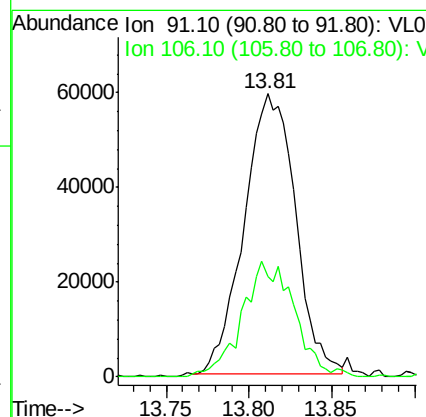
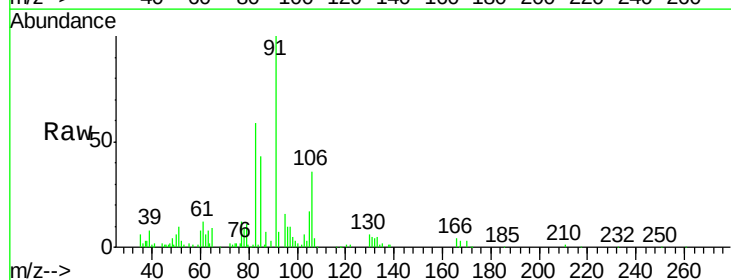
Manual Integrations
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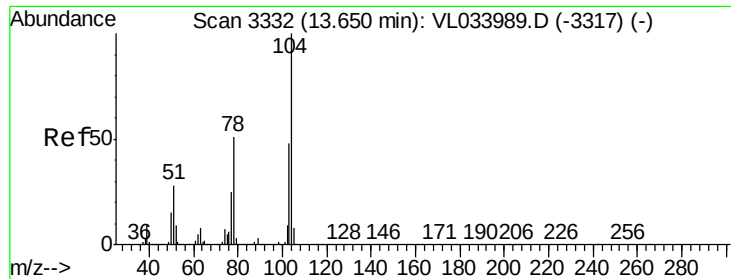
MMDadoda
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#60
o-Xylene
Concen: 0.438 ppbv
RT: 13.81 min Scan# 3382
Delta R.T. -0.01 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.0	21.9	65.7





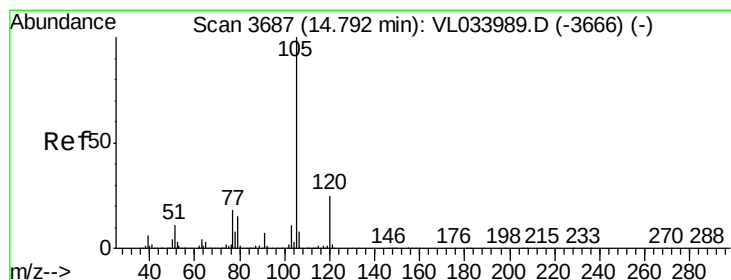
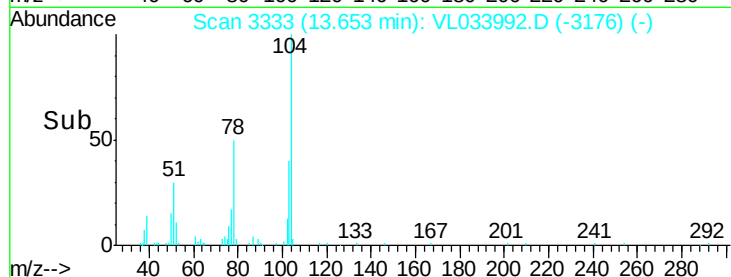
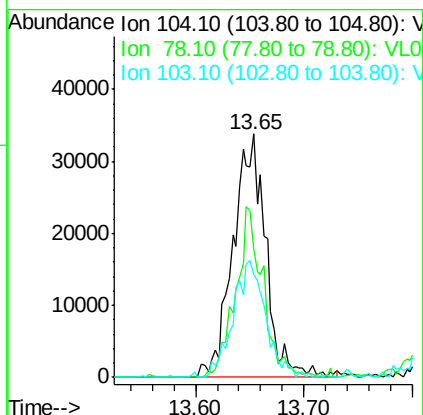
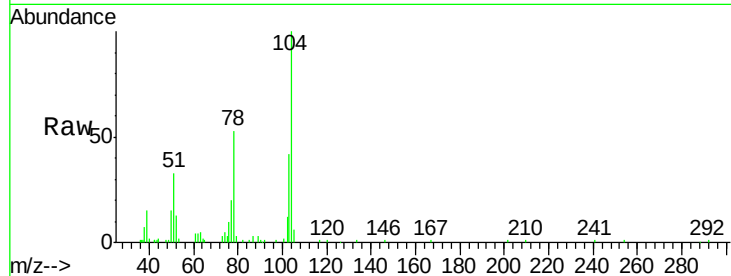
#61
Stvrene
Concen: 0.378 ppbv m
RT: 13.65 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
104	100		
78	0.0	43.9	65.9#
103	0.0	38.1	57.1#

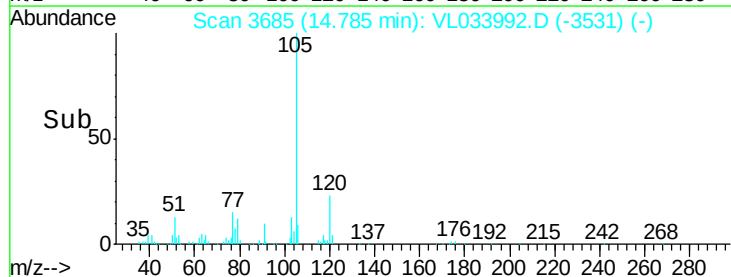
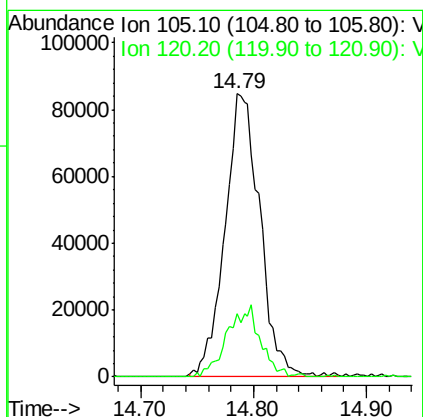
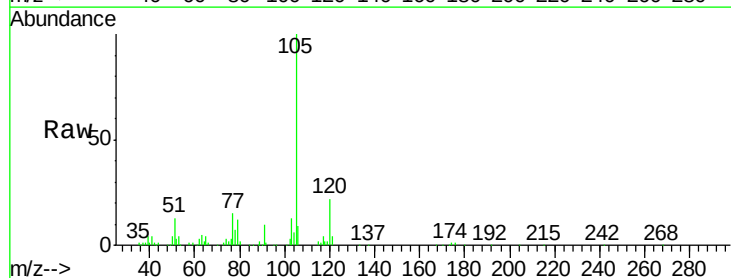
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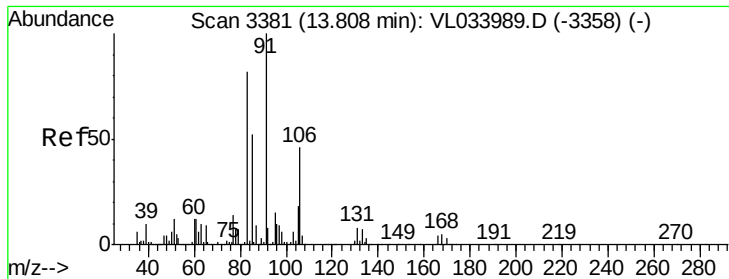
MMDadoda
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#62
Isopropylbenzene
Concen: 0.468 ppbv m
RT: 14.79 min Scan# 3685
Delta R.T. -0.01 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
105	100		
120	23.9	20.4	30.6





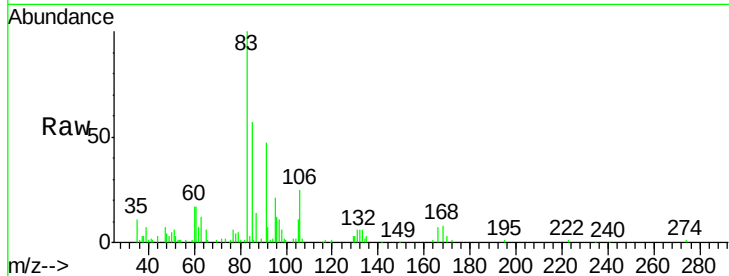
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.532 ppbv m
 RT: 13.79 min Scan# 3377
 Delta R.T. -0.01 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

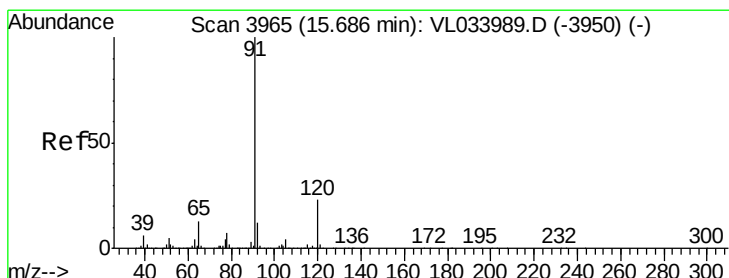
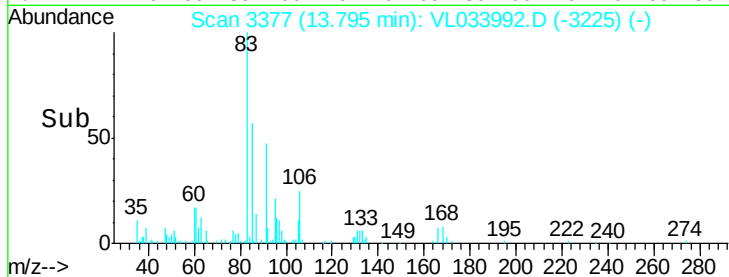
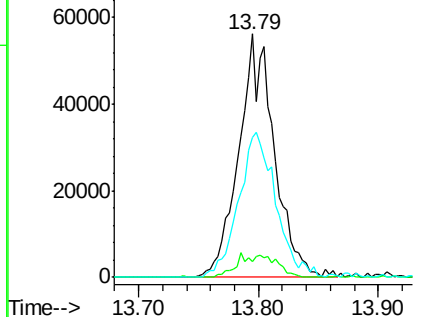
Tot Ion	Ratio	Lower	Upper
83	100		
131	0.0	5.0	14.9#
85	0.0	32.8	98.3#

Manual Integrations
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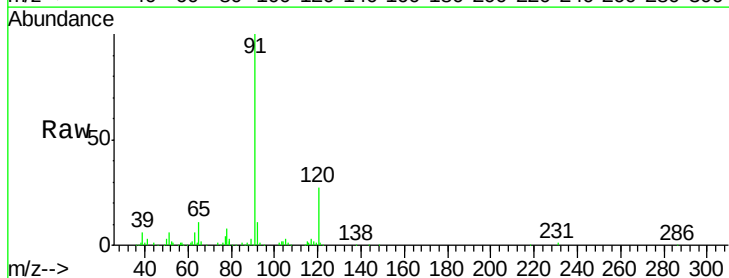


Abundance Ion 83.00 (82.70 to 83.70): VL0
 Ion 131.00 (130.70 to 131.70): V
 Ion 85.00 (84.70 to 85.70): VL0

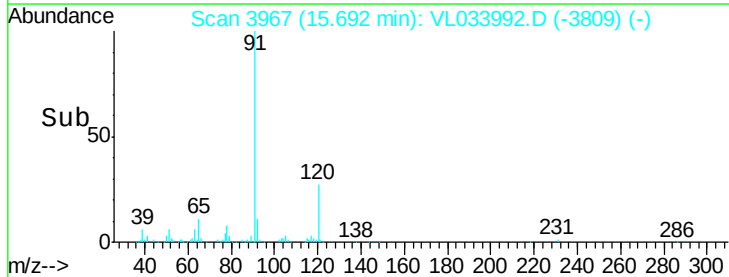
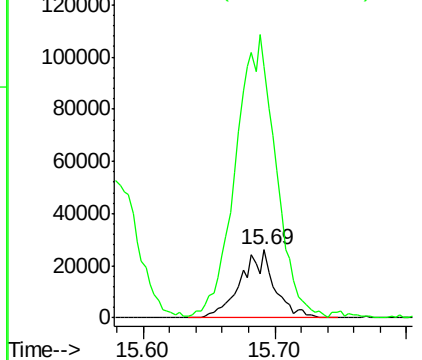


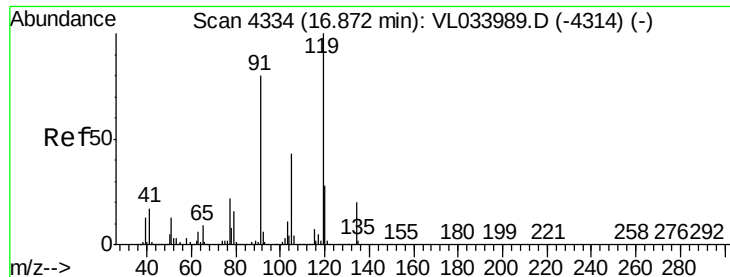
#64
 n-propylbenzene
 Concen: 0.458 ppbv m
 RT: 15.69 min Scan# 3967
 Delta R.T. 0.01 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
120	100		
91	262.2	386.6	579.8#



Abundance Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0





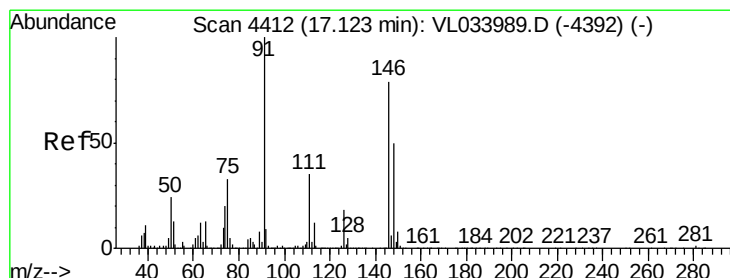
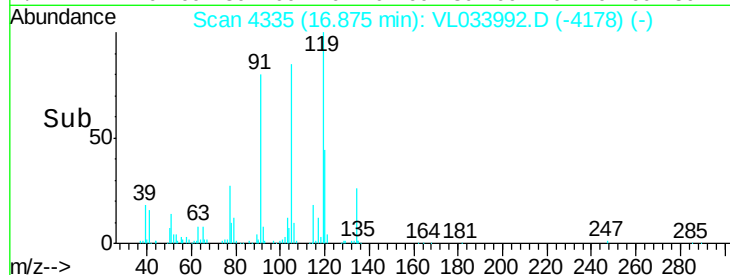
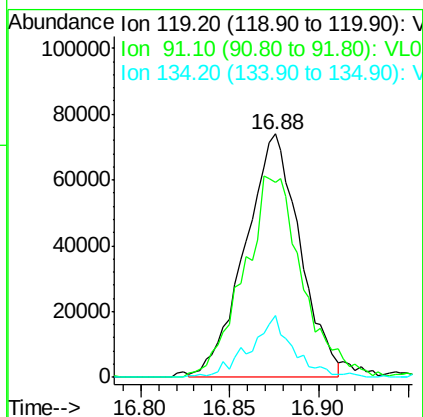
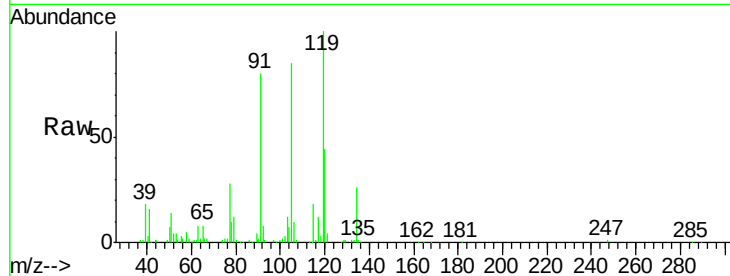
#65
 tert-Butylbenzene
 Concen: 0.438 ppbv
 RT: 16.88 min Scan# 4335
 Delta R.T. 0.00 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
119	100		
91	88.8	67.0	100.6
134	20.5	15.8	23.6

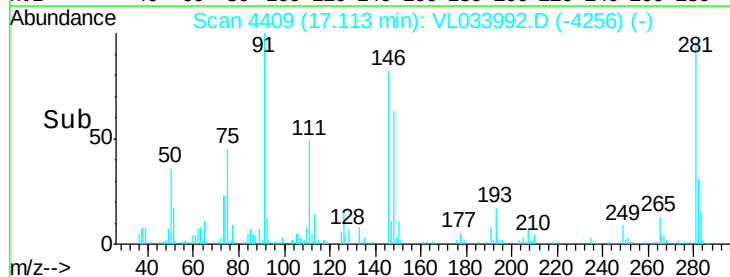
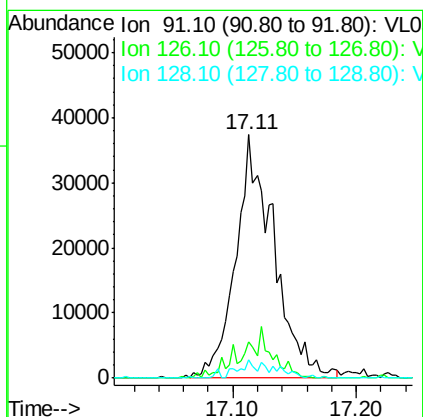
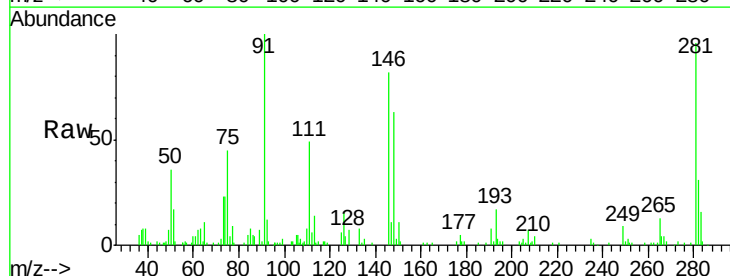
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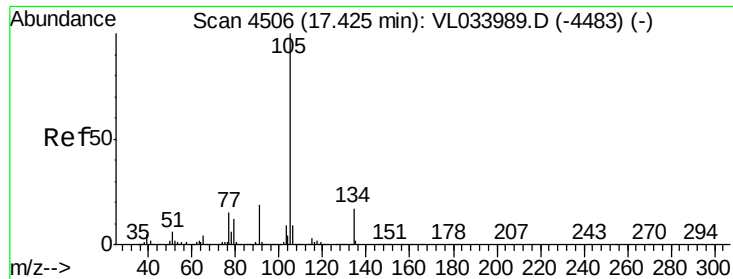
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#66
 Benzyl Chloride
 Concen: 0.437 ppbv m
 RT: 17.11 min Scan# 4409
 Delta R.T. -0.01 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
91	100		
126	16.8	13.9	20.9
128	0.0	4.6	7.0#





#67

sec-Butylbenzene

Concen: 0.445 ppbv

RT: 17.42 min Scan# 4505

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 105 Resp: 226159

Ion Ratio Lower Upper

105 100

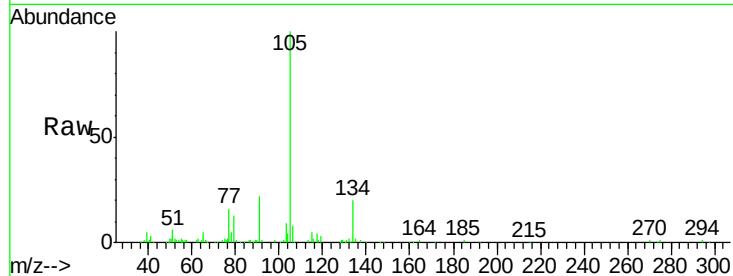
134 18.9 14.7 22.1

Manual Integrations

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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V

17.42

120000

100000

80000

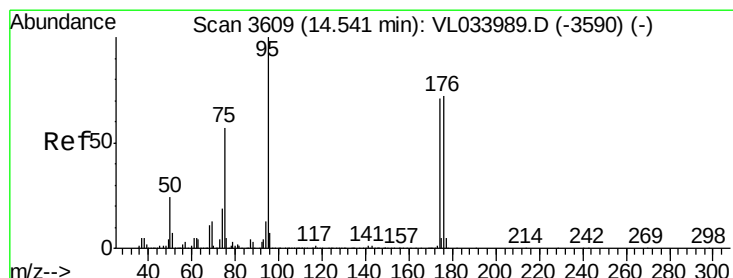
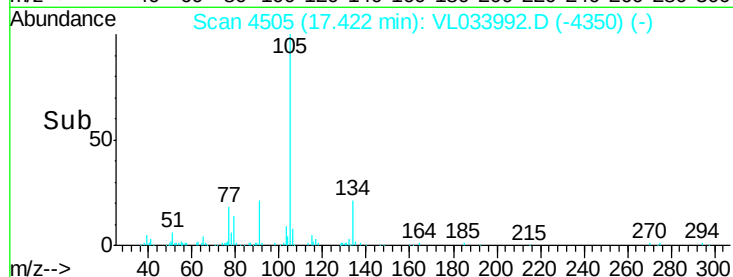
60000

40000

20000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.888 ppbv

RT: 14.54 min Scan# 3608

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

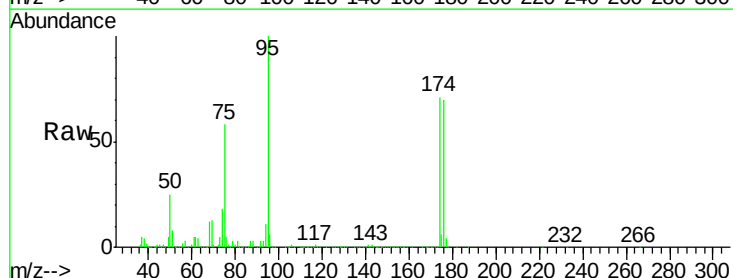
Tgt Ion: 95 Resp: 2227084

Ion Ratio Lower Upper

95 100

174 74.2 60.5 90.7

175 5.2 4.0 6.0



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

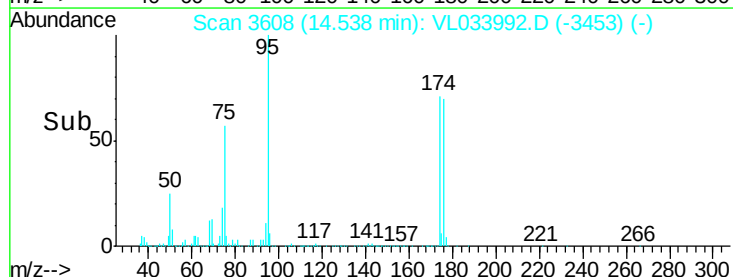
14.54

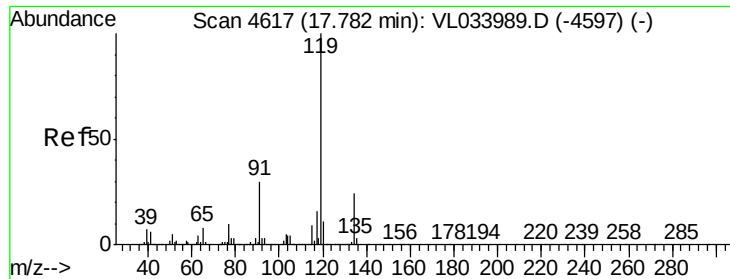
1000000

500000

0

Time-->





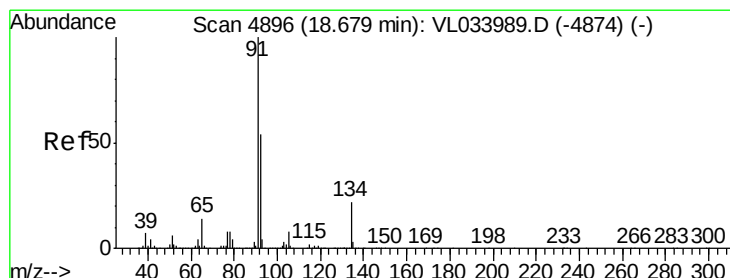
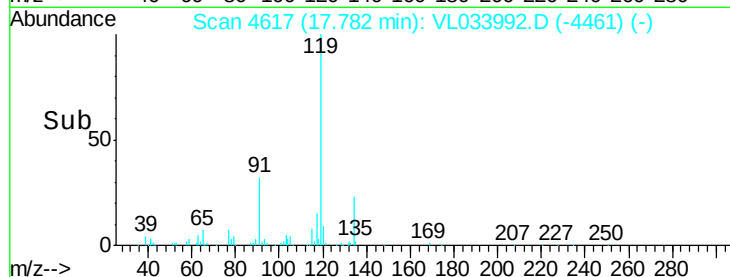
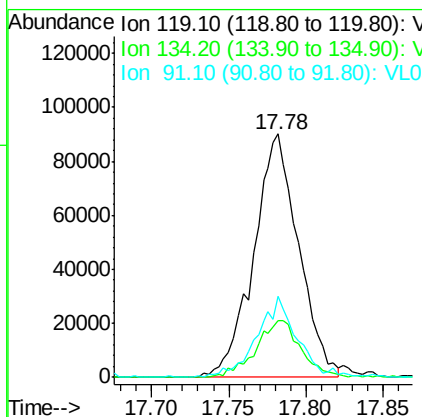
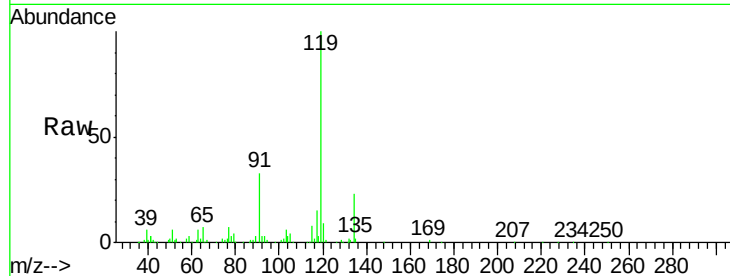
#69
p-Isopropyltoluene
Concen: 0.431 ppbv
RT: 17.78 min Scan# 4617
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
119	100	181934		
134	23.4	20.1	30.1	
91	30.3	23.6	35.4	

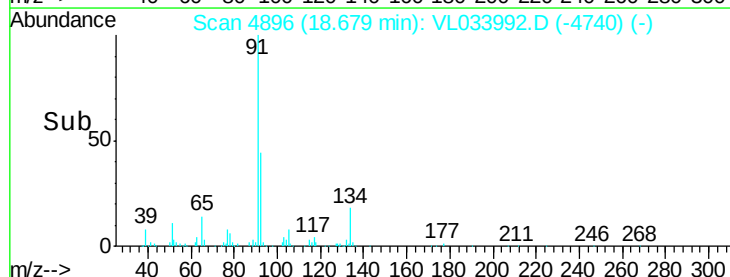
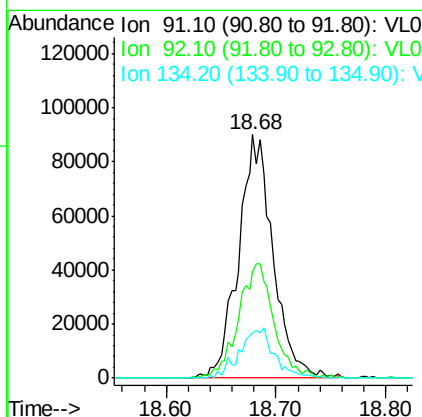
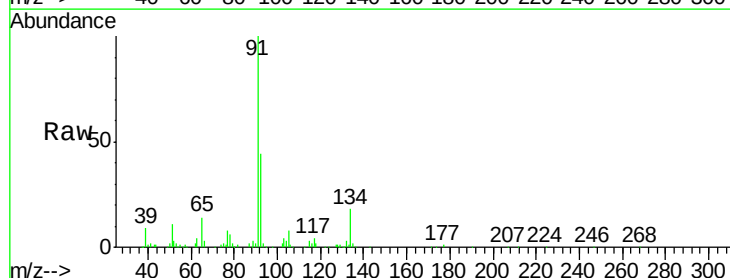
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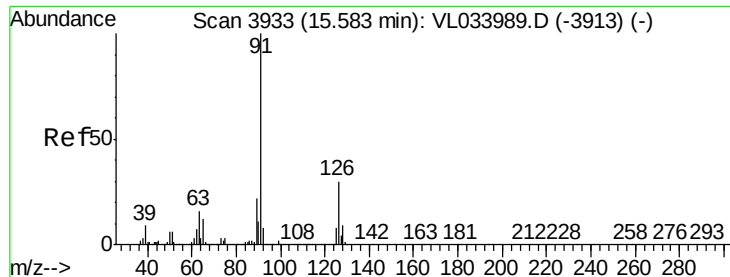
MMDadoda
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#70
n-Butylbenzene
Concen: 0.423 ppbv m
RT: 18.68 min Scan# 4896
Delta R.T. 0.00 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	195721		
92	48.5	42.0	63.0	
134	20.5	17.9	26.9	





#71

2-Chlorotoluene

Concen: 0.416 ppbv m

RT: 15.58 min Scan# 3932

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 119999

Ion Ratio Lower Upper

91 100

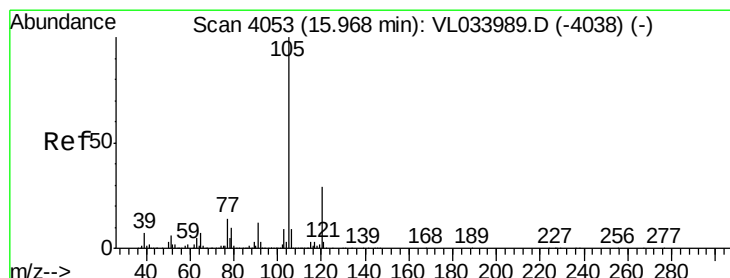
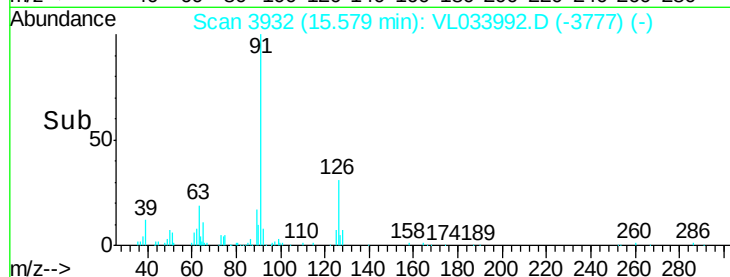
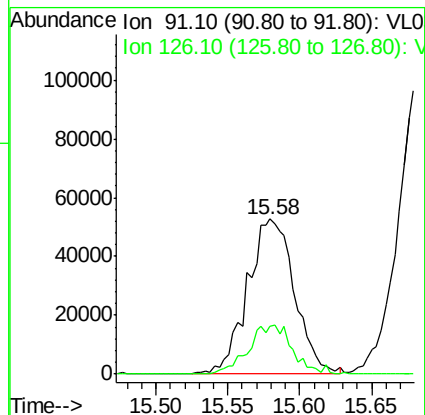
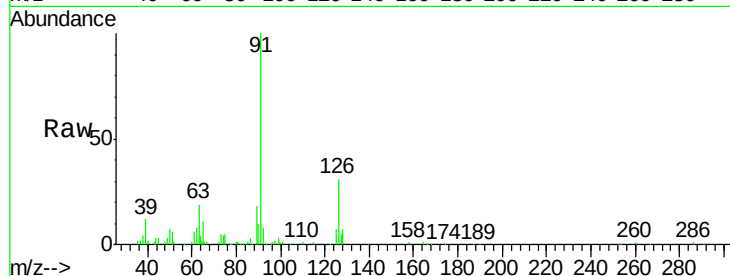
126 29.9 12.3 49.3

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#72

4-Ethyltoluene

Concen: 0.406 ppbv

RT: 15.96 min Scan# 4051

Delta R.T. -0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion: 105 Resp: 134045

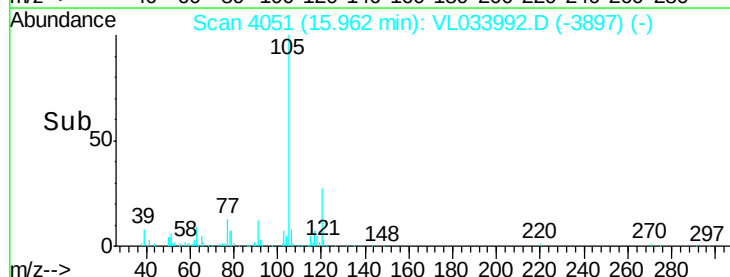
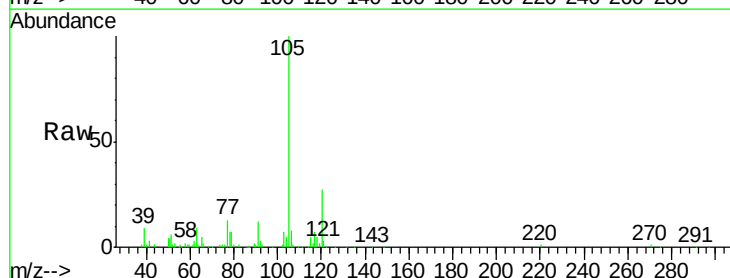
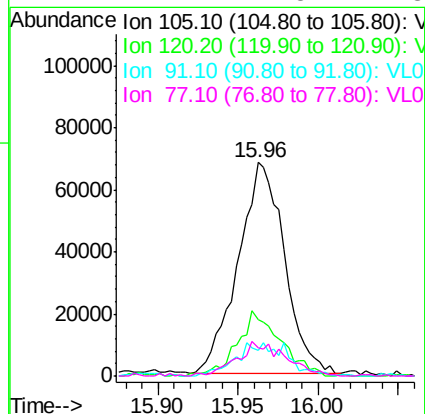
Ion Ratio Lower Upper

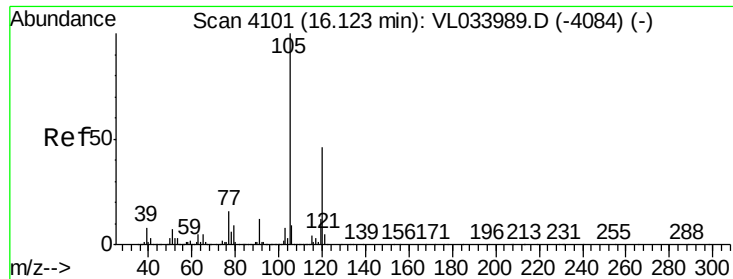
105 100

120 28.9 24.1 36.1

91 17.7 10.6 16.0#

77 17.2 11.5 17.3





#73

1,3,5-Trimethylbenzene

Concen: 0.424 ppbv

RT: 16.13 min Scan# 4103

Delta R.T. 0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:105 Resp: 137920

Ion Ratio Lower Upper

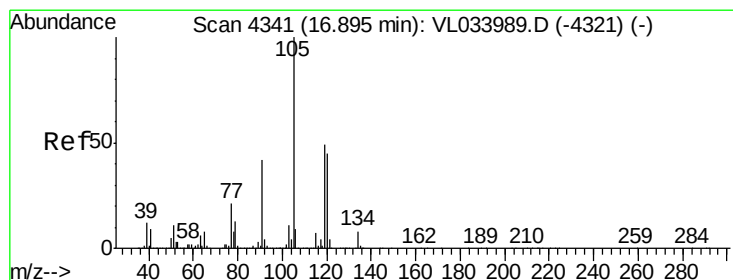
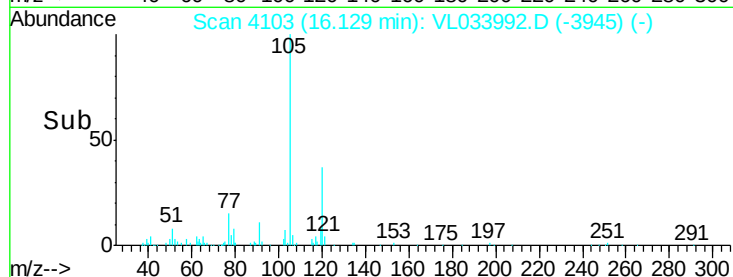
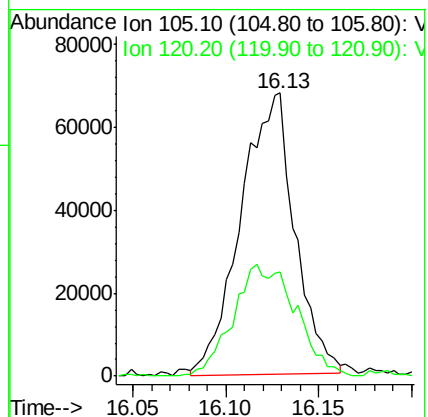
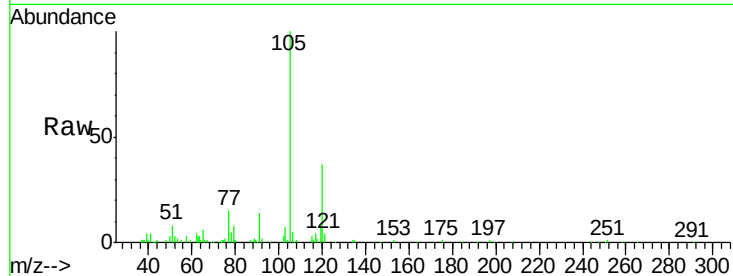
105 100

120 36.9 36.4 54.6

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#74

1,2,4-Trimethylbenzene

Concen: 0.458 ppbv

RT: 16.89 min Scan# 4340

Delta R.T. -0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion:105 Resp: 171736

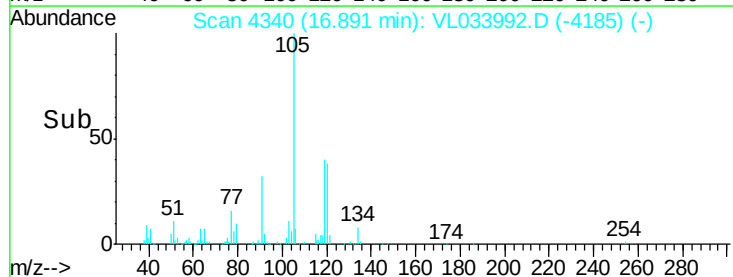
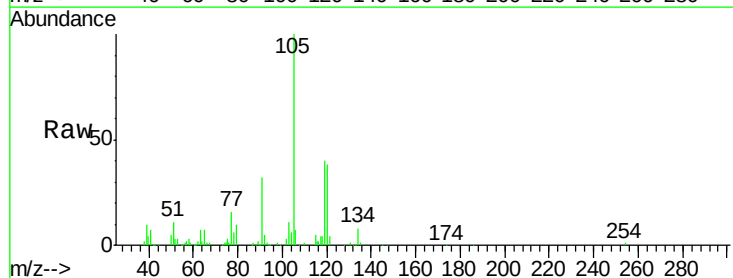
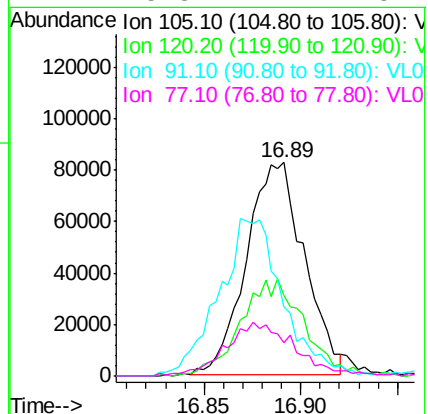
Ion Ratio Lower Upper

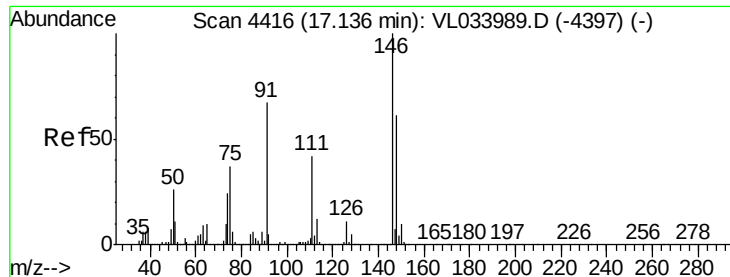
105 100

120 36.9 36.2 54.2

91 27.6 34.3 51.5#

77 13.3 17.1 25.7#





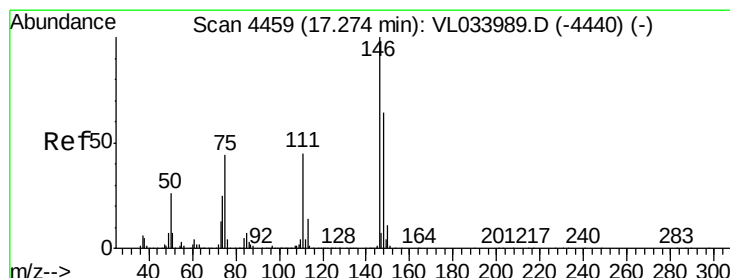
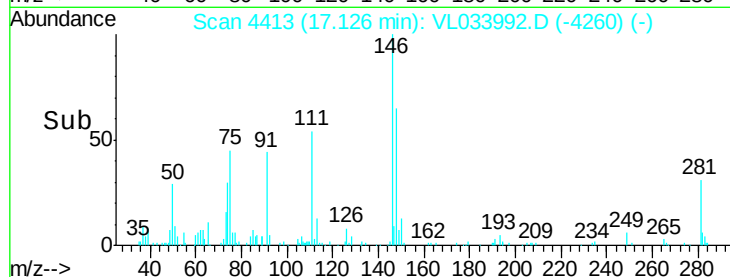
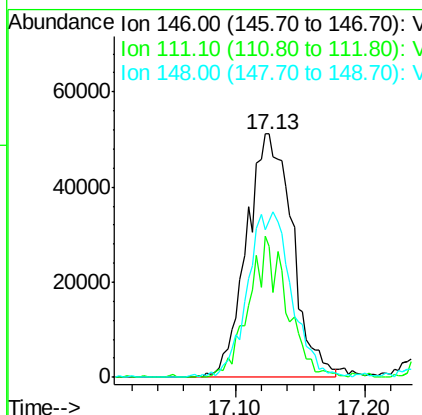
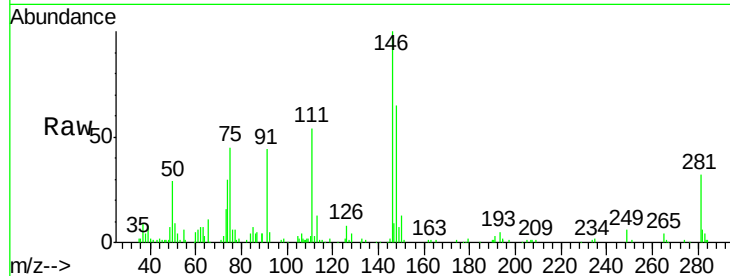
#75
 1,3-Dichlorobenzene
 Concen: 0.535 ppbv m
 RT: 17.13 min Scan# 4413
 Delta R.T. -0.01 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
146	100		
111	48.7	22.3	66.9
148	65.4	32.0	96.2

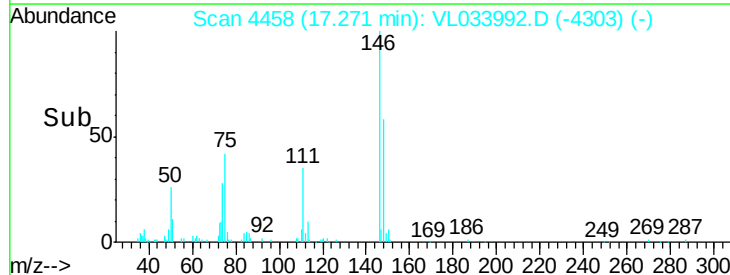
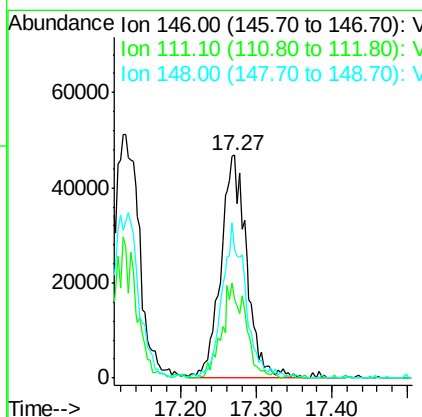
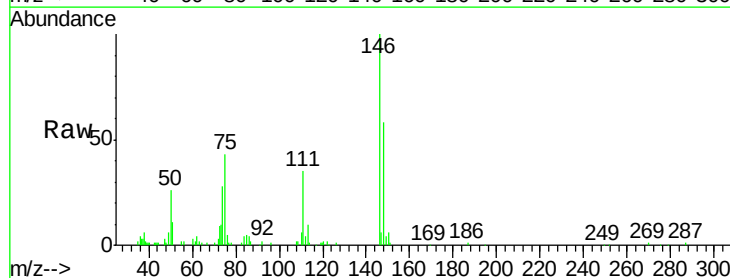
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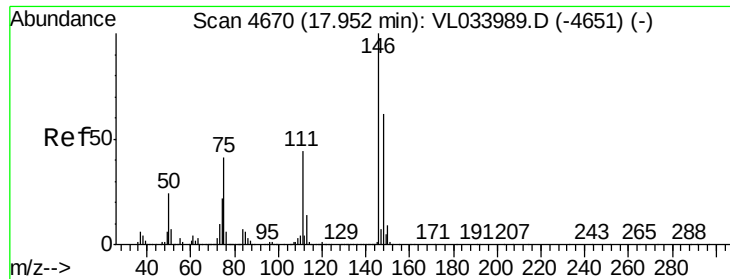
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#76
 1,4-Dichlorobenzene
 Concen: 0.522 ppbv m
 RT: 17.27 min Scan# 4458
 Delta R.T. -0.00 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	21.9	65.5
148	63.4	32.5	97.5





#77

1,2-Dichlorobenzene

Concen: 0.501 ppbv

RT: 17.95 min Scan# 4670

Delta R.T. 0.00 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Instrument :

MSVOA_L

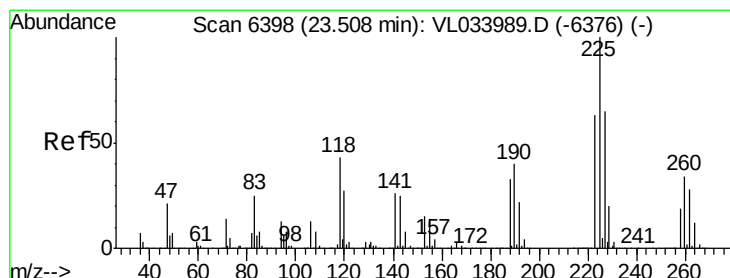
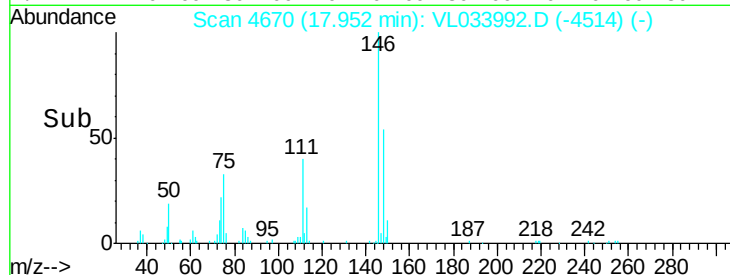
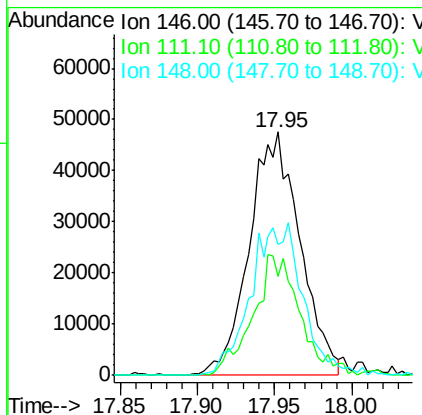
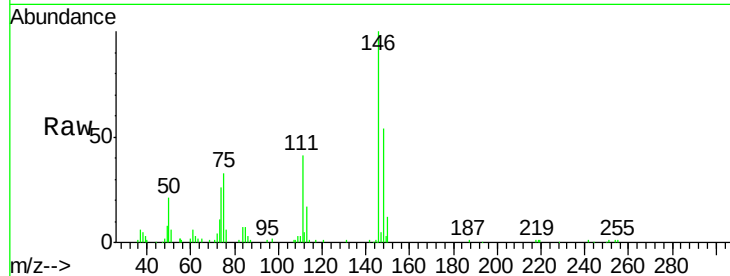
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	108510
Ion Ratio		Lower	Upper
146	100		
111	46.5	22.7	68.1
148	64.1	32.1	96.3

Manual Integrations
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#78

Hexachloro-1,3-Butadiene

Concen: 0.626 ppbv m

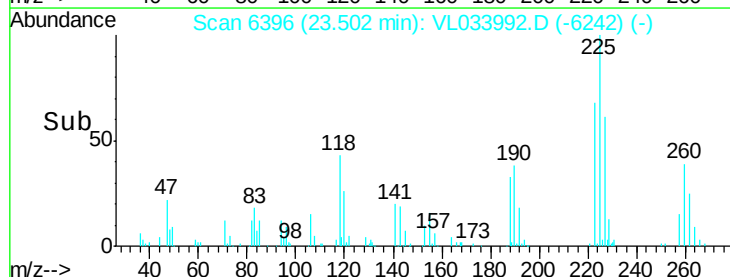
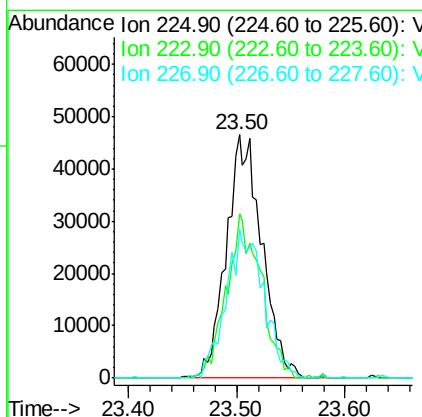
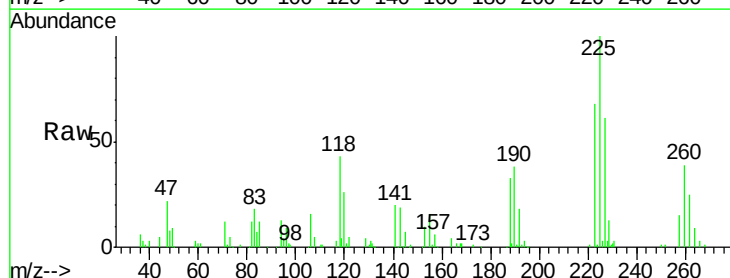
RT: 23.50 min Scan# 6396

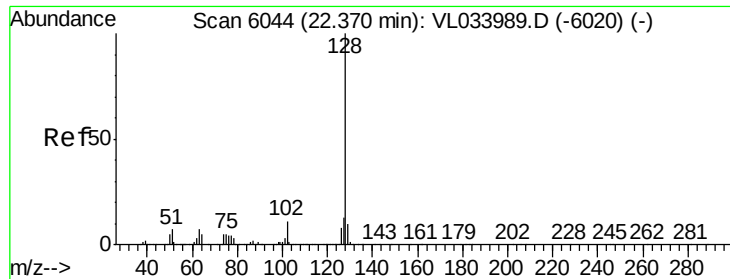
Delta R.T. -0.01 min

Lab File: VL033992.D

Acq: 2 Jul 2019 15:36

Tgt Ion:	225	Resp:	106035
Ion Ratio		Lower	Upper
225	100		
223	65.4	51.5	77.3
227	64.6	52.1	78.1





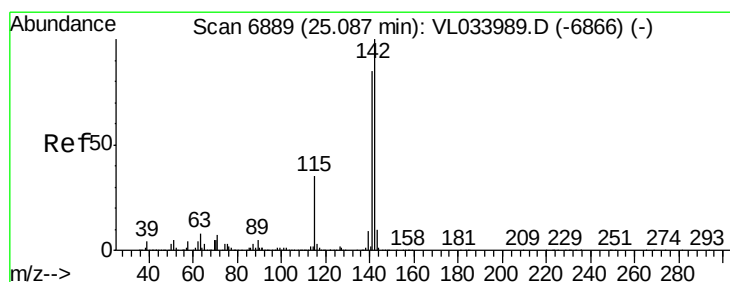
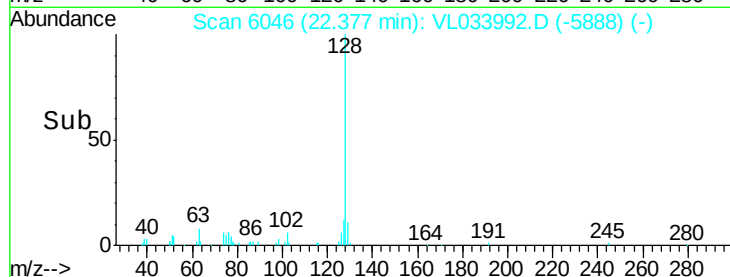
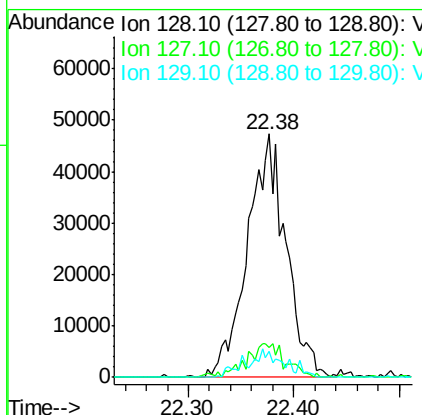
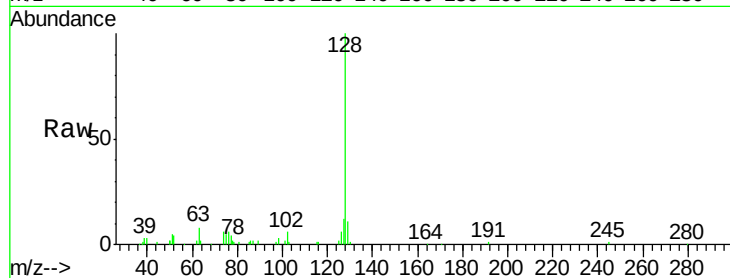
#79
Naphthalene
Concen: 0.400 ppbv m
RT: 22.38 min Scan# 6046
Delta R.T. 0.01 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.6	15.8
129	10.7	8.3	12.5

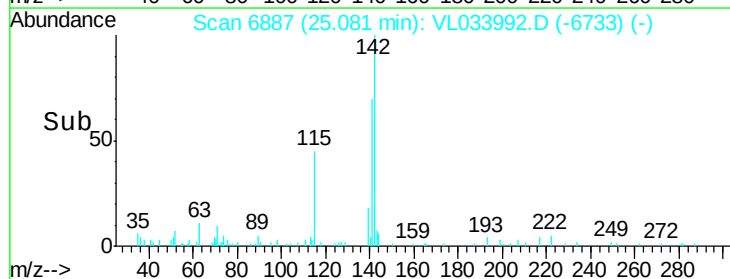
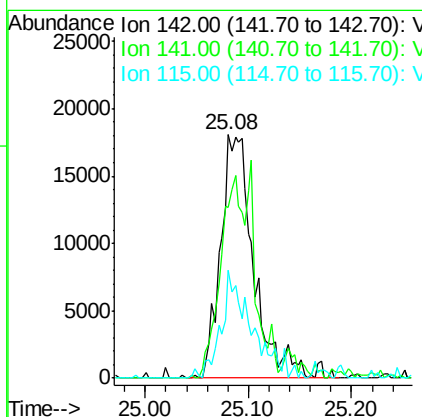
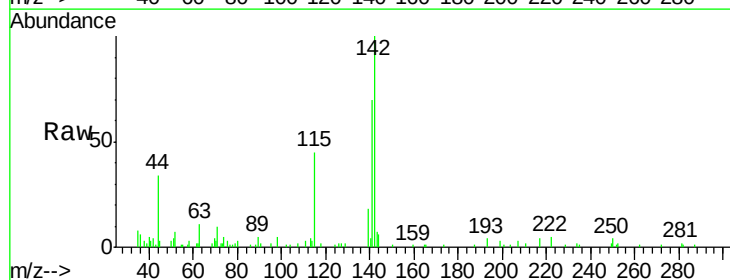
Manual Integrations
APPROVED

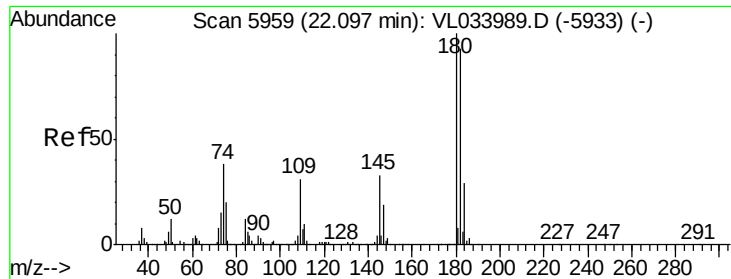
MMDadoda
7/3/2019 11:03:31 PM



#80
Naphthalene, 2-methyl-
Concen: 0.340 ppbv
RT: 25.08 min Scan# 6887
Delta R.T. -0.01 min
Lab File: VL033992.D
Acq: 2 Jul 2019 15:36

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.6	68.2	102.2
115	40.4	29.9	44.9





#81
 1,2,4-Trichlorobenzene
 Concen: 0.479 ppbv m
 RT: 22.10 min Scan# 5959
 Delta R.T. 0.00 min
 Lab File: VL033992.D
 Acq: 2 Jul 2019 15:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.6	76.6	114.8
184	30.6	24.6	36.8

Manual Integrations
 APPROVED

MMDadoda
 7/3/2019 11:03:31 PM

