

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033329.D
 Acq On : 15 Mar 2019 12:21
 Operator : SY/AP
 Sample : VSTDIC0.5
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:21 AM

Quant Time: Mar 15 13:41:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
 QLast Update : Fri Mar 15 12:24:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	867928	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1984645	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2052935	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1588392	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	3.08	85	87221	0.555 ppbv	97
3) Chlorodifluoromethane	3.02	51	51944	0.523 ppbv	97
4) Chloromethane	3.17	50	28788	0.533 ppbv	94
5) Vinyl Chloride	3.29	62	26278	0.480 ppbv	99
6) Bromomethane	3.51	94	17238m	0.519 ppbv	
7) Chloroethane	3.60	64	10252	0.522 ppbv	98
8) Dichlorotetrafluoroethane	3.22	85	66715	0.498 ppbv	99
9) Propene	3.04	41	23241	0.522 ppbv	98
10) Heptane	8.25	43	52301	0.465 ppbv	100
11) Trichlorofluoromethane	4.01	101	82441	0.552 ppbv	85
12) 1,1,2-Trichlorotrifluoroet	4.55	101	52967	0.542 ppbv	100
13) Ethanol	3.66	45	16299m	1.052 ppbv	
14) Bromoethene	3.79	108	22443	0.543 ppbv	89
15) Acetone	3.91	43	82580	0.621 ppbv	98
16) 1,3-Butadiene	3.37	39	21813m	0.468 ppbv	
17) tert-Butyl alcohol	4.38	59	11977m	0.632 ppbv	
18) 1,1-Dichloroethene	4.36	96	24609m	0.568 ppbv	
19) Isopropyl Alcohol	4.03	45	42838m	0.643 ppbv	
20) Methylene Chloride	4.41	84	26564m	0.624 ppbv	
21) Allyl Chloride	4.48	41	31714	0.482 ppbv	92
22) trans-1,2-Dichloroethene	4.97	96	22763	0.529 ppbv	86
23) Vinyl Acetate	5.16	43	74100	0.477 ppbv #	94
24) 1,1-Dichloroethane	5.09	63	59339	0.537 ppbv	98
25) Ethyl Acetate	5.78	43	101381	0.527 ppbv	99
26) Hexane	5.78	57	45460m	0.517 ppbv	
27) Carbon Disulfide	4.62	76	44901	0.452 ppbv #	90
28) Methyl tert-Butyl Ether	5.13	73	65366	0.516 ppbv	99
29) Chloroform	5.85	83	75230	0.525 ppbv	92
30) Cyclohexane	7.25	84	35916	0.515 ppbv	87
31) cis-1,2-Dichloroethene	5.64	61	43032	0.493 ppbv	95
32) 1,1,1-Trichloroethane	6.62	97	67444	0.474 ppbv	94
34) 2-Butanone	5.34	43	68196	0.542 ppbv	96
35) Carbon Tetrachloride	7.13	117	65470	0.457 ppbv	93
36) Benzene	7.00	78	87798	0.495 ppbv	98
37) 1,2-Dichloroethane	6.41	62	58806	0.532 ppbv	98
38) Trichloroethene	7.96	130	33988	0.487 ppbv	92
39) 1,2-Dichloropropane	7.74	63	32750	0.485 ppbv	90
40) 1,4-Dioxane	8.00	88	13046m	0.528 ppbv	
41) Tetrahydrofuran	6.17	42	31822	0.456 ppbv	98
42) Bromodichloromethane	7.91	83	72984	0.484 ppbv	89
43) Methyl Methacrylate	8.15	69	32035	0.463 ppbv	99

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 ClientSampleId :
 VSTDIC0.5

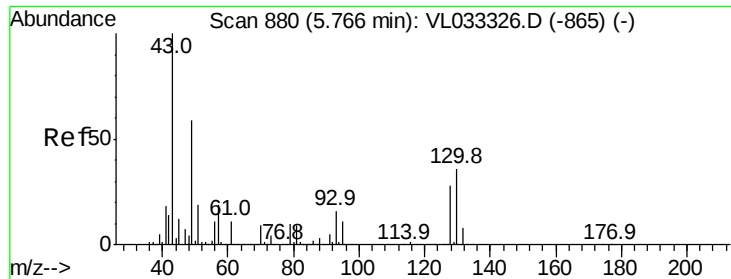
Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 10:02:21 AM

Quant Time: Mar 15 13:41:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 15 2019
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	7.99	57	143660	0.483	ppbv	96
45) t-1,3-Dichloropropene	9.42	75	33857	0.400	ppbv #	86
46) cis-1,3-Dichloropropene	8.84	75	42921	0.431	ppbv	91
47) 1,1,2-Trichloroethane	9.61	97	37531m	0.517	ppbv	
48) Dibromochloromethane	10.45	129	53154	0.428	ppbv	98
49) Bromoform	13.21	173	49534m	0.441	ppbv	
50) 4-Methyl-2-Pentanone	8.89	43	88712	0.482	ppbv	97
51) 2-Hexanone	10.29	43	63137	0.431	ppbv #	96
52) Tetrachloroethene	11.38	164	33892	0.473	ppbv	97
53) Toluene	9.95	91	94000	0.465	ppbv	99
54) 1,2-Dibromoethane	10.76	107	55420m	0.468	ppbv	
56) 1,1,1,2-Tetrachloroethane	12.28	131	46025	0.500	ppbv #	1
57) Chlorobenzene	12.31	112	87995	0.540	ppbv #	84
58) Ethyl Benzene	12.87	91	146110	0.503	ppbv	97
59) m/p-Xylene	13.15	91	261682m	1.058	ppbv	
60) o-Xylene	13.85	91	126991	0.524	ppbv	99
61) Styrene	13.69	104	82610	0.488	ppbv	97
62) Isopropylbenzene	14.83	105	176356	0.527	ppbv	99
63) 1,1,2,2-Tetrachloroethane	13.84	83	94758	0.517	ppbv	98
64) n-propylbenzene	15.72	120	44239m	0.523	ppbv	
65) tert-Butylbenzene	16.91	119	153273	0.497	ppbv	96
66) Benzyl Chloride	17.15	91	44818m	0.356	ppbv	
67) sec-Butylbenzene	17.46	105	220482	0.500	ppbv	100
69) p-Isopropyltoluene	17.82	119	176021	0.490	ppbv	96
70) n-Butylbenzene	18.72	91	192072	0.501	ppbv	97
71) 2-Chlorotoluene	15.62	91	135681	0.509	ppbv	99
72) 4-Ethyltoluene	16.00	105	137680m	0.498	ppbv	
73) 1,3,5-Trimethylbenzene	16.16	105	134659	0.492	ppbv	96
74) 1,2,4-Trimethylbenzene	16.93	105	146804	0.509	ppbv	98
75) 1,3-Dichlorobenzene	17.17	146	94372m	0.563	ppbv	
76) 1,4-Dichlorobenzene	17.31	146	84137	0.510	ppbv	97
77) 1,2-Dichlorobenzene	17.99	146	84810	0.523	ppbv	100
78) Hexachloro-1,3-Butadiene	23.55	225	56579m	0.579	ppbv	
79) Naphthalene	22.42	128	135316m	0.481	ppbv	
80) Naphthalene, 2-methyl-	25.13	142	51843	0.382	ppbv	97
81) 1,2,4-Trichlorobenzene	22.14	180	71201m	0.488	ppbv	

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

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Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

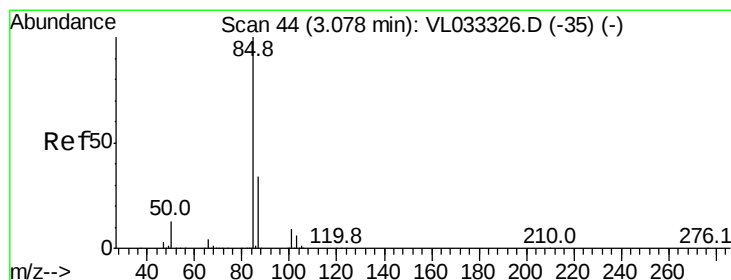
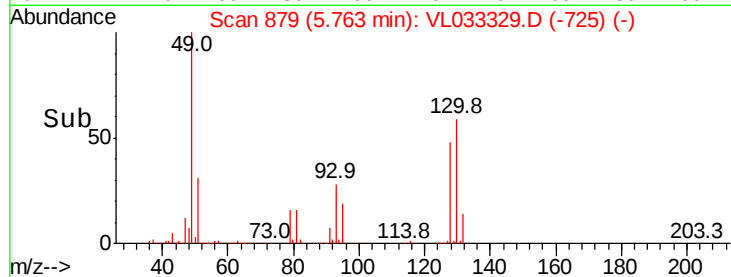
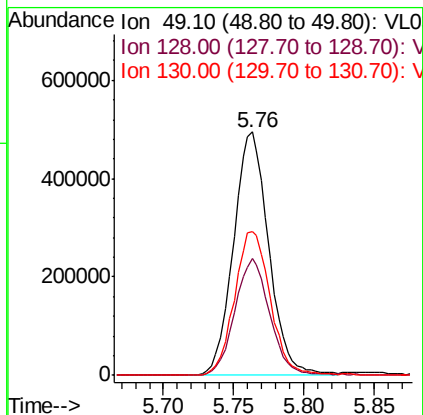
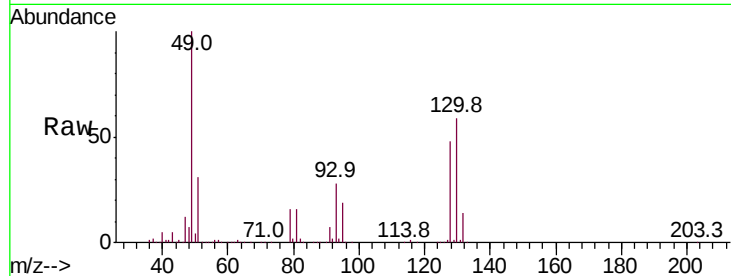
ClientSampleId :

VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
49	100		
128	48.0	23.5	70.6
130	60.4	30.1	90.3

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.555 ppbv

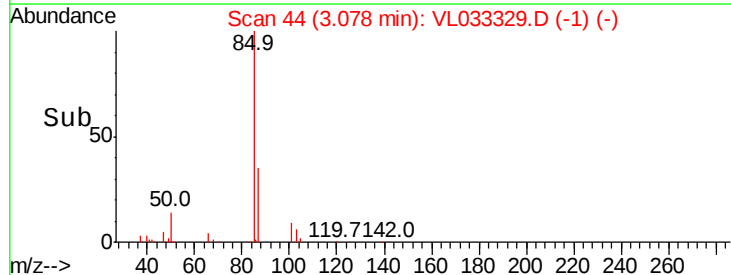
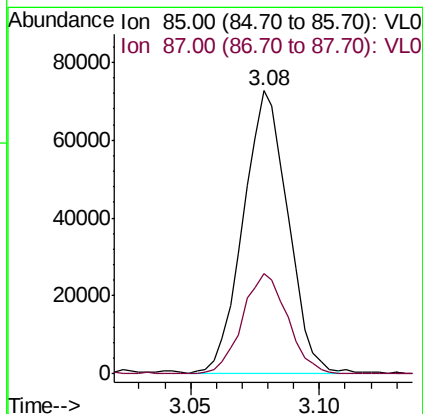
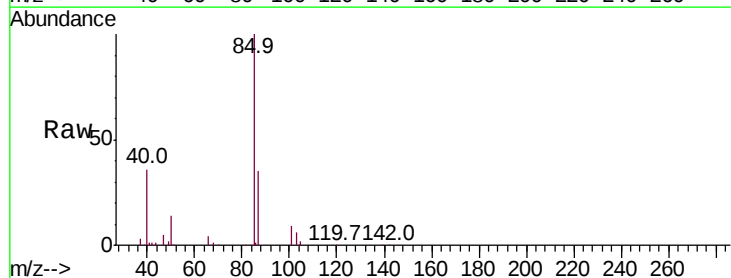
RT: 3.08 min Scan# 44

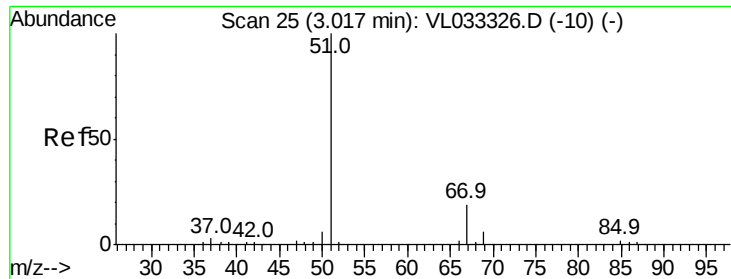
Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.6	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.523 ppbv

RT: 3.02 min Scan# 25

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 51 Resp: 51944

Ion Ratio Lower Upper

51 100

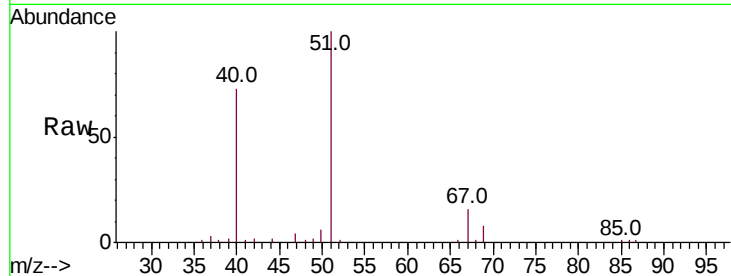
67 20.0 14.9 22.3

Manual Integrations

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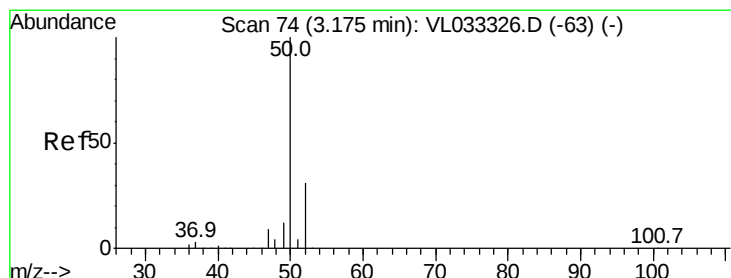
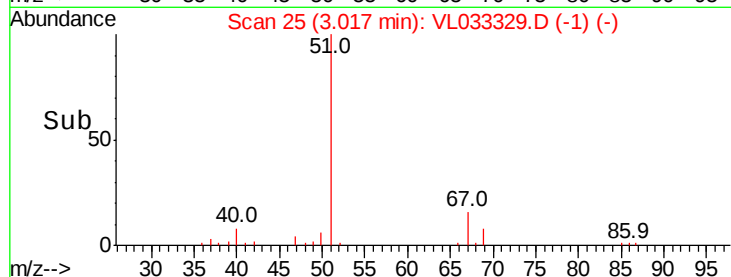
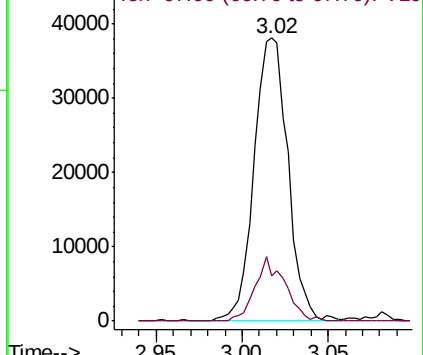
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.533 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL033329.D

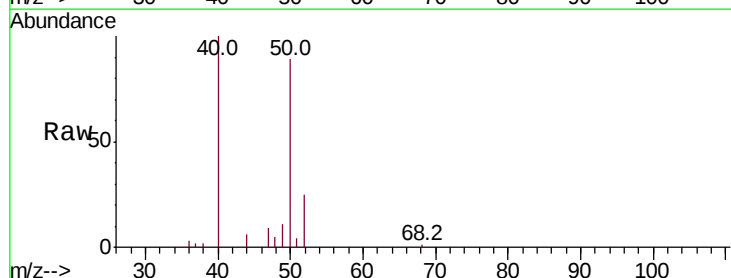
Acq: 15 Mar 2019 12:21

Tgt Ion: 50 Resp: 28788

Ion Ratio Lower Upper

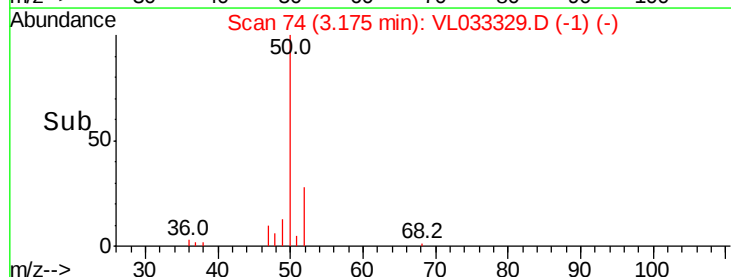
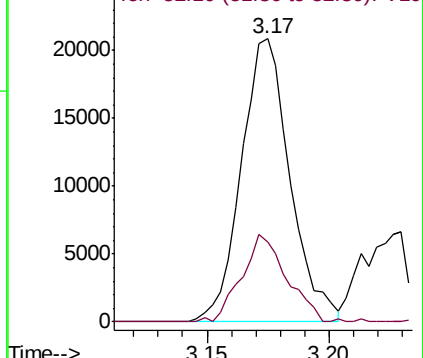
50 100

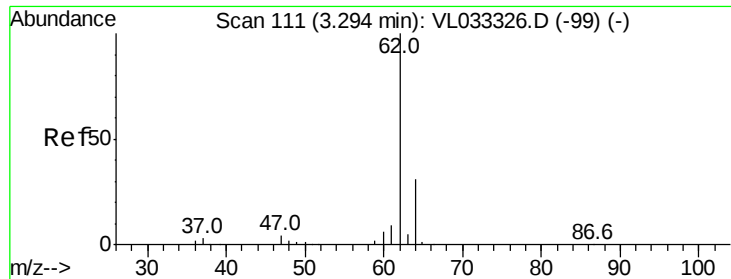
52 28.2 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.480 ppbv

RT: 3.29 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 62 Resp: 26278

Ion Ratio Lower Upper

62 100

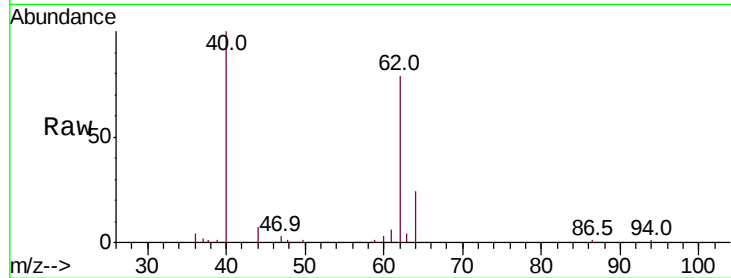
64 30.9 25.0 37.6

Manual Integrations

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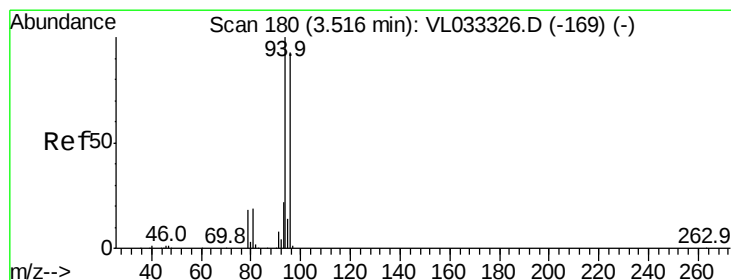
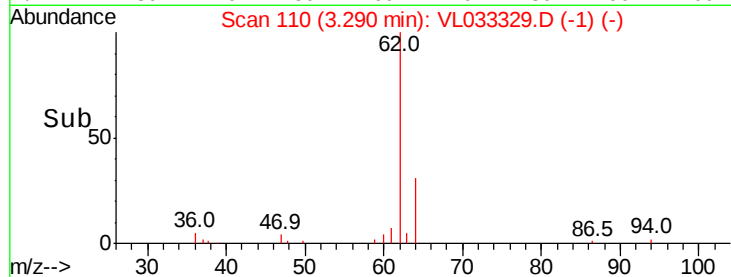
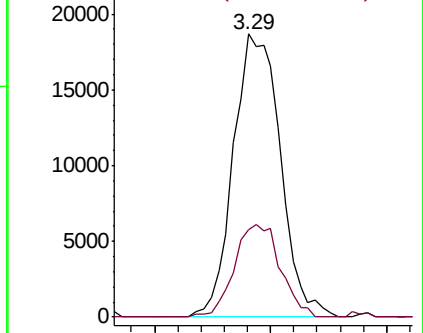
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Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0



#6

Bromomethane

Concen: 0.519 ppbv m

RT: 3.51 min Scan# 179

Delta R.T. -0.00 min

Lab File: VL033329.D

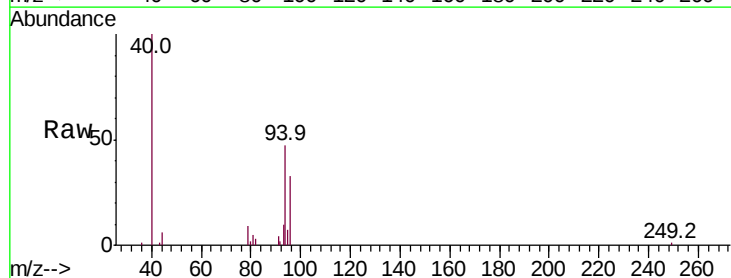
Acq: 15 Mar 2019 12:21

Tgt Ion: 94 Resp: 17238

Ion Ratio Lower Upper

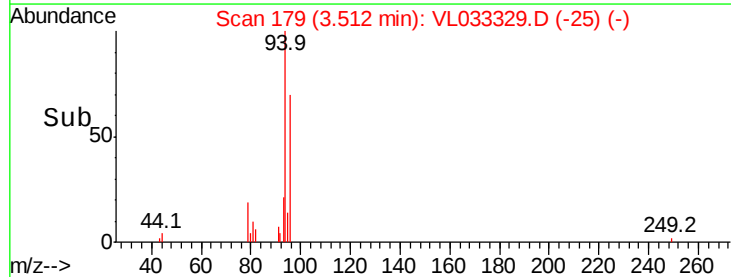
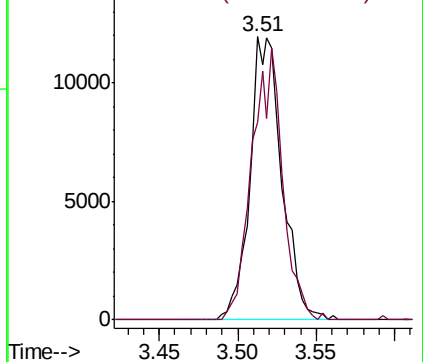
94 100

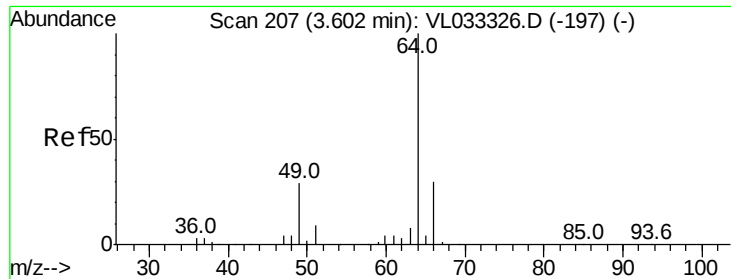
96 69.9 74.6 111.8#



Abundance Ion 94.00 (93.70 to 94.70): VL0

Ion 96.00 (95.70 to 96.70): VL0





#7

Chloroethane

Concen: 0.522 ppbv

RT: 3.60 min Scan# 207

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 64 Resp: 10252

Ion Ratio Lower Upper

64 100

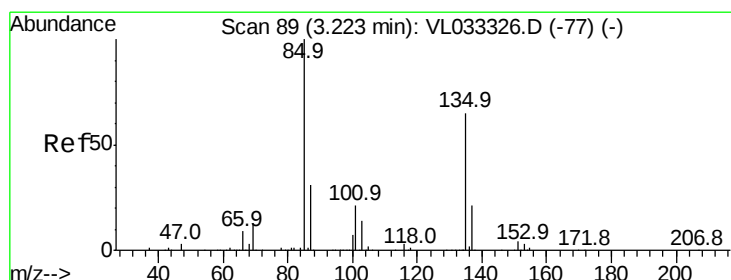
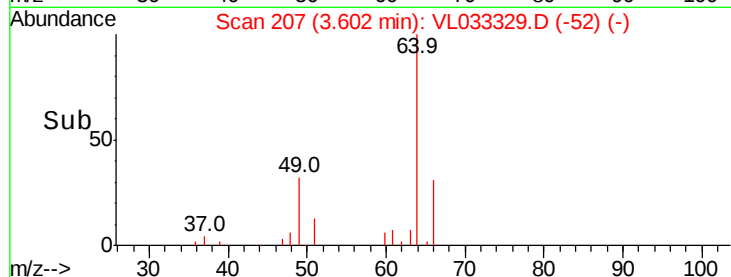
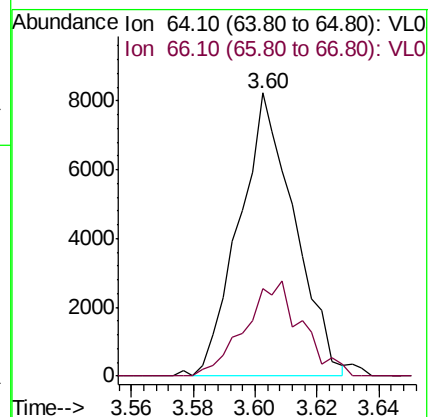
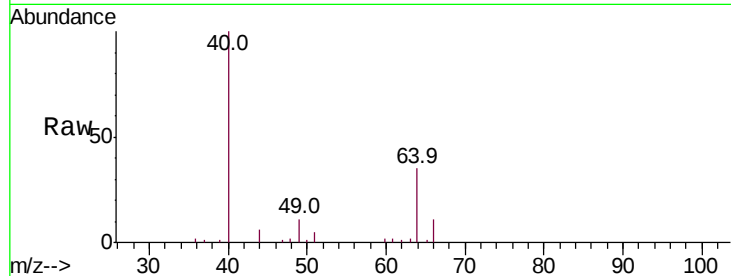
66 31.1 24.0 36.0

Manual Integrations

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#8

Dichlorotetrafluoroethane

Concen: 0.498 ppbv

RT: 3.22 min Scan# 89

Delta R.T. -0.00 min

Lab File: VL033329.D

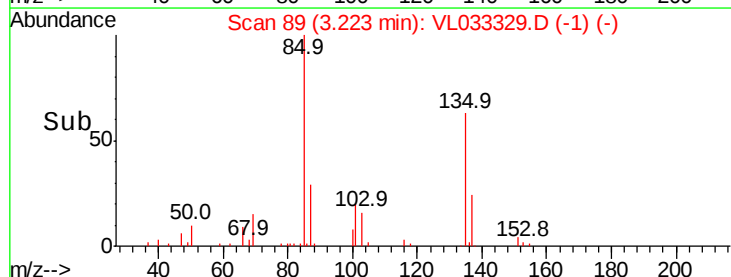
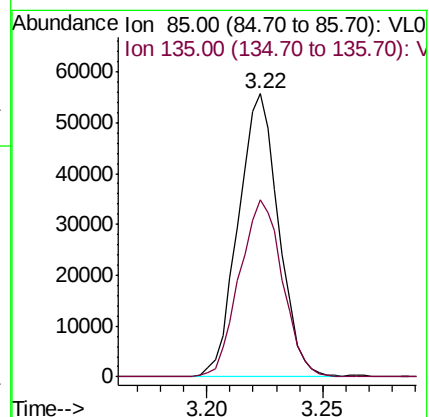
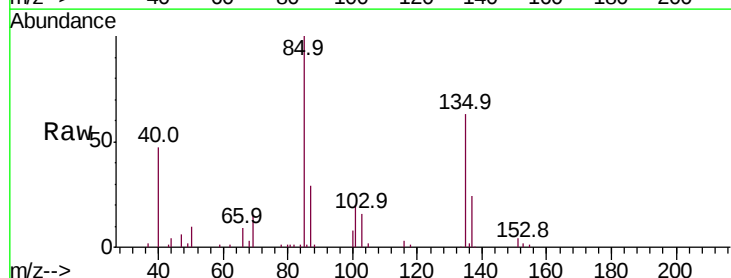
Acq: 15 Mar 2019 12:21

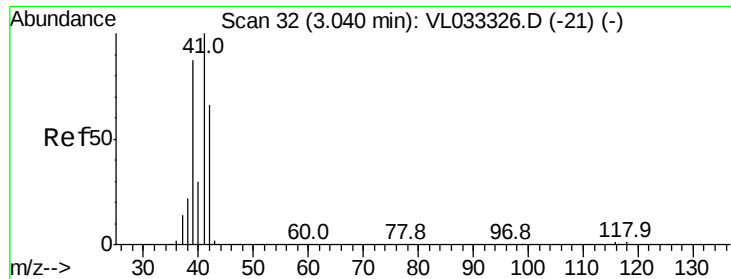
Tgt Ion: 85 Resp: 66715

Ion Ratio Lower Upper

85 100

135 67.4 53.4 80.2





#9

Propene

Concen: 0.522 ppbv

RT: 3.04 min Scan# 32

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 41 Resp: 23241

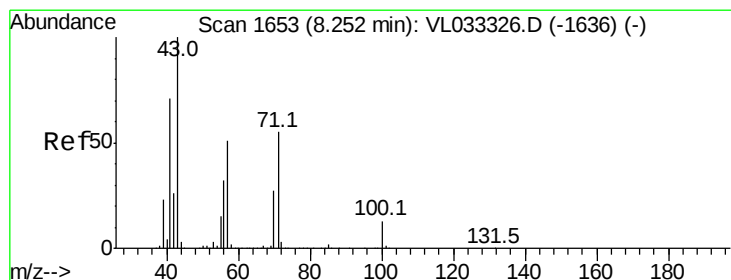
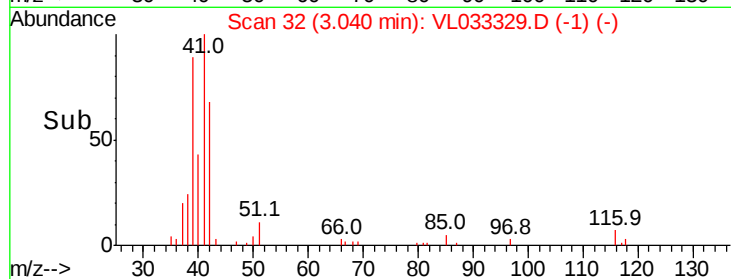
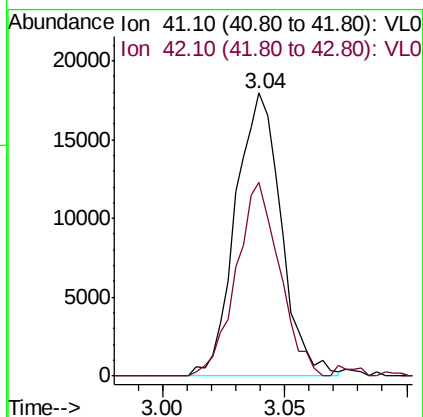
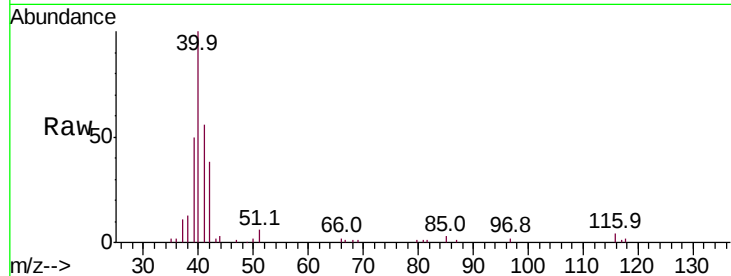
Ion Ratio Lower Upper

41 100

42 67.6 55.2 82.8

Manual Integrations
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3/19/2019 10:02:21 AM



#10

Heptane

Concen: 0.465 ppbv

RT: 8.25 min Scan# 1652

Delta R.T. -0.00 min

Lab File: VL033329.D

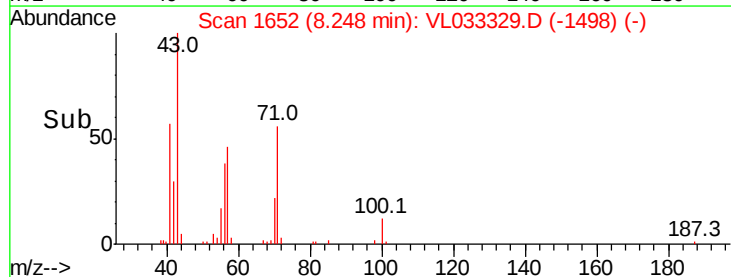
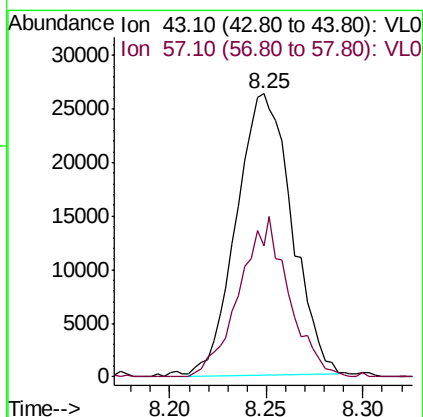
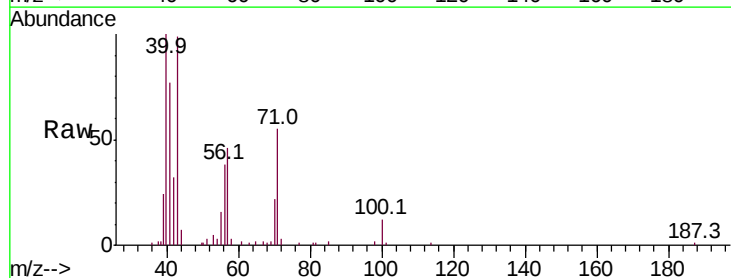
Acq: 15 Mar 2019 12:21

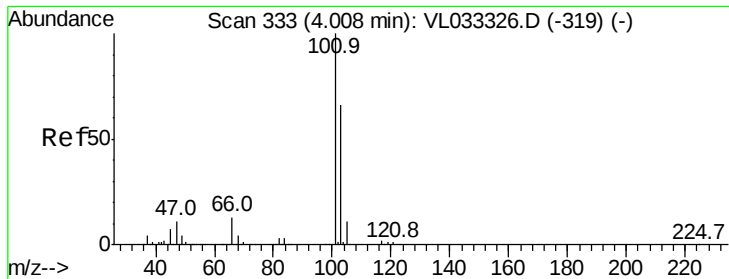
Tgt Ion: 43 Resp: 52301

Ion Ratio Lower Upper

43 100

57 50.8 40.4 60.6





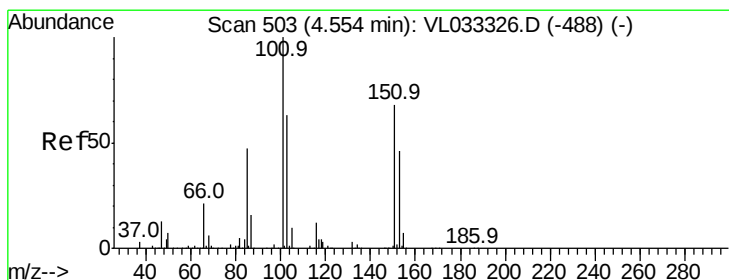
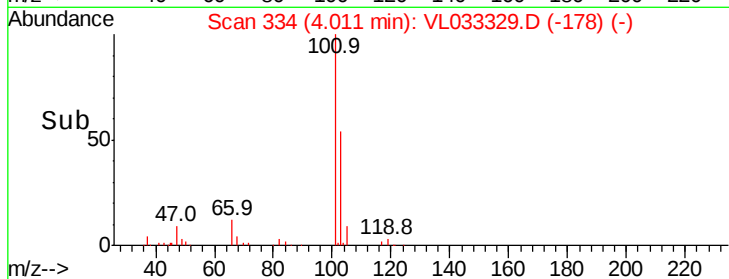
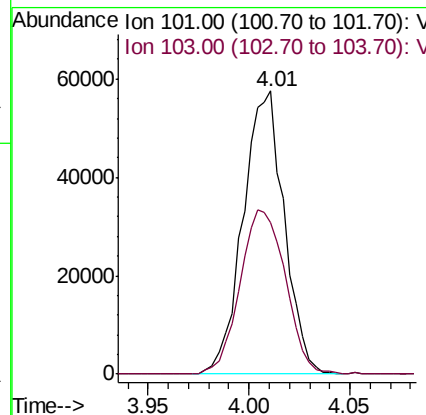
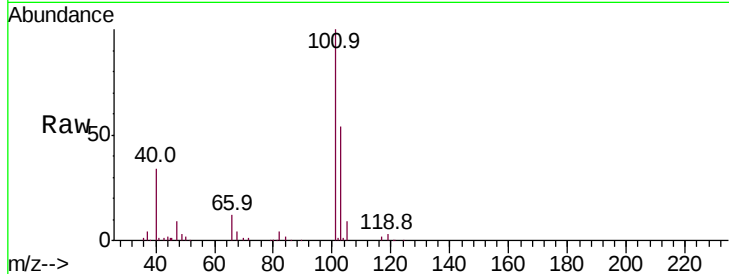
#11
 Trichlorofluoromethane
 Concen: 0.552 ppbv
 RT: 4.01 min Scan# 334
 Delta R.T. 0.00 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion:101 Resp: 82441
 Ion Ratio Lower Upper
 101 100
 103 54.4 52.9 79.3

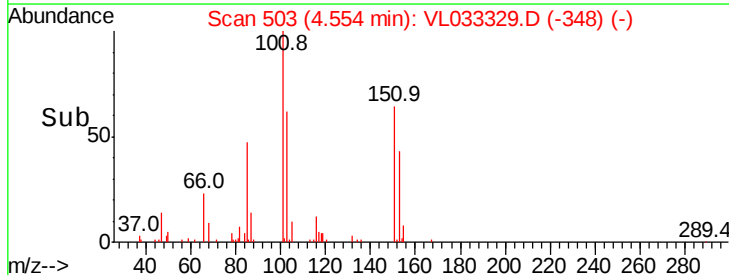
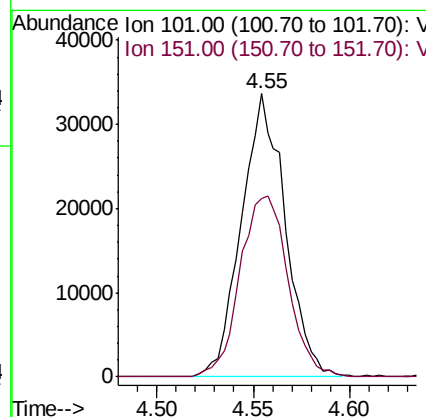
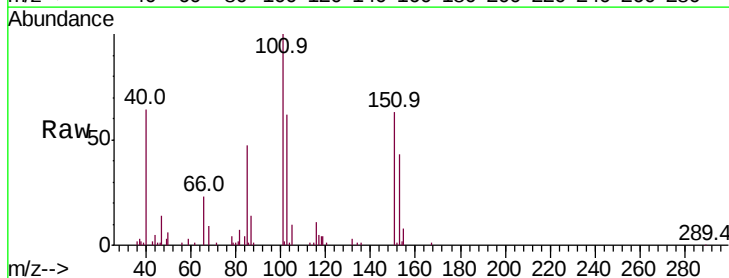
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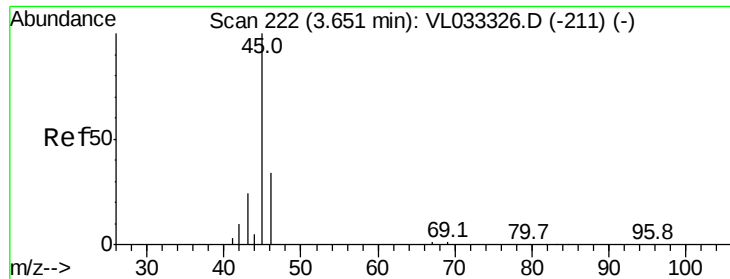
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#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.542 ppbv
 RT: 4.55 min Scan# 503
 Delta R.T. -0.00 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Tgt Ion:101 Resp: 52967
 Ion Ratio Lower Upper
 101 100
 151 70.0 56.3 84.5





#13

Ethanol

Concen: 1.052 ppbv m

RT: 3.66 min Scan# 225

Delta R.T. 0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 16299

Ion Ratio Lower Upper

45 100

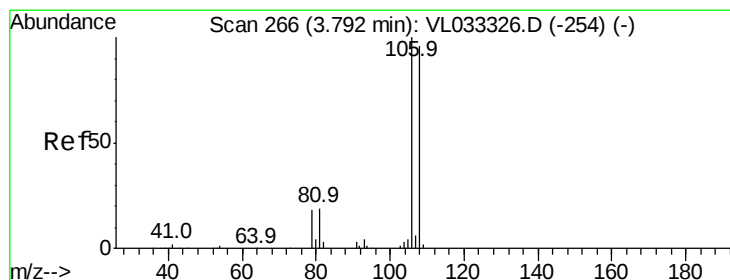
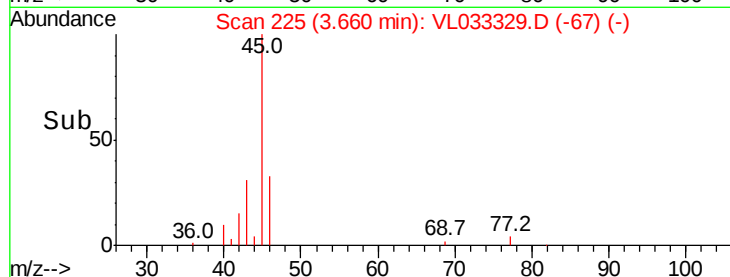
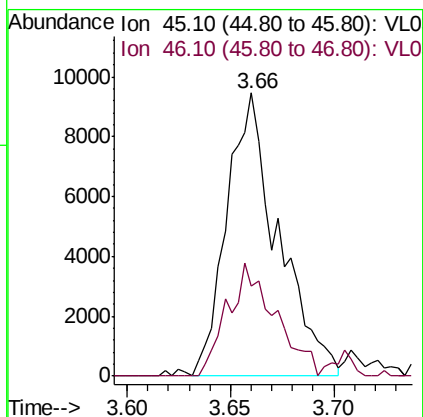
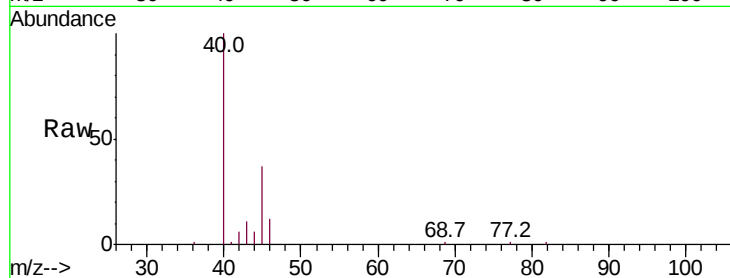
46 40.6 14.9 59.7

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#14

Bromoethene

Concen: 0.543 ppbv

RT: 3.79 min Scan# 266

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

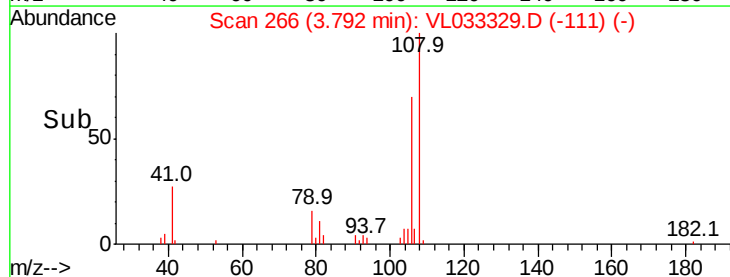
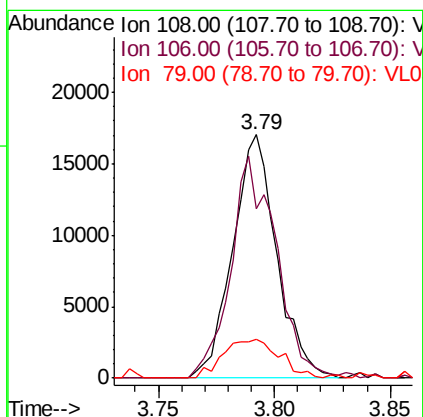
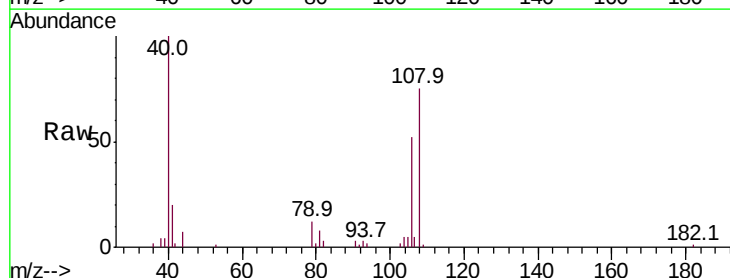
Tgt Ion: 108 Resp: 22443

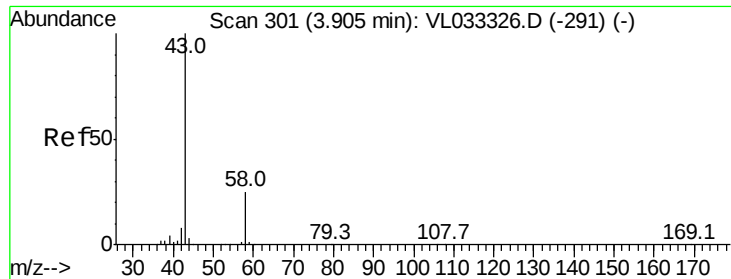
Ion Ratio Lower Upper

108 100

106 94.9 86.2 129.2

79 20.8 15.4 23.2





#15

Acetone

Concen: 0.621 ppbv

RT: 3.91 min Scan# 302

Delta R.T. 0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 43 Resp: 82580

Ion Ratio Lower Upper

43 100

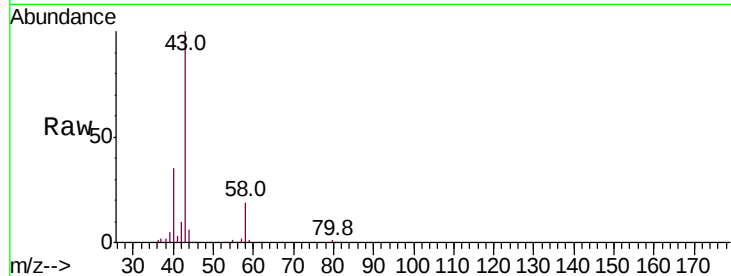
58 26.5 20.4 30.6

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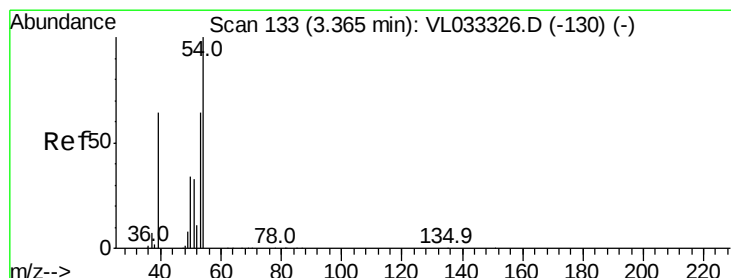
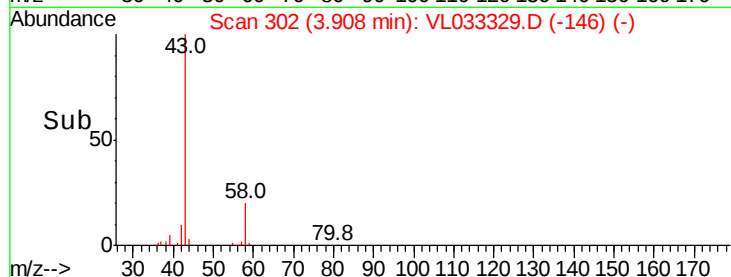
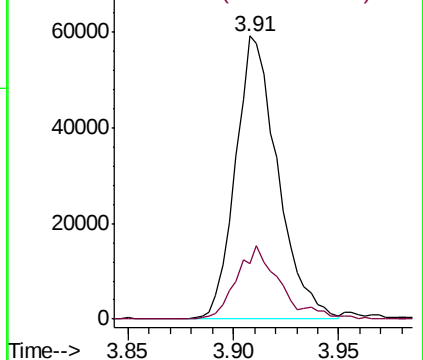
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.468 ppbv m

RT: 3.37 min Scan# 134

Delta R.T. 0.00 min

Lab File: VL033329.D

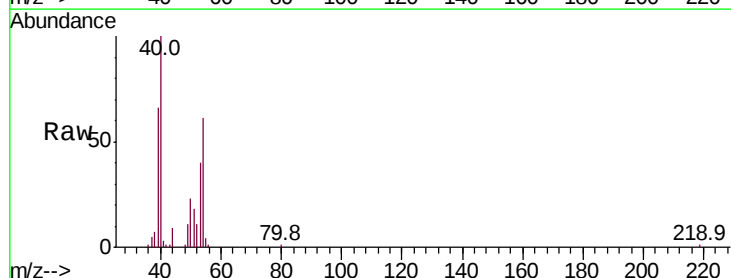
Acq: 15 Mar 2019 12:21

Tgt Ion: 39 Resp: 21813

Ion Ratio Lower Upper

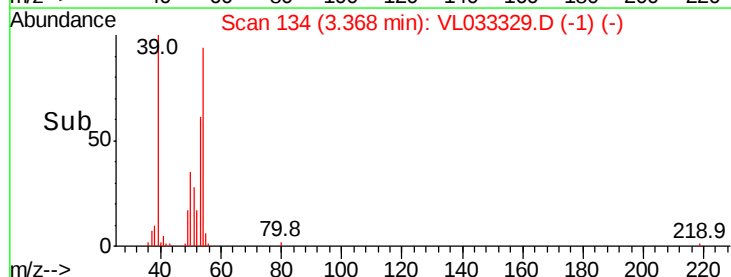
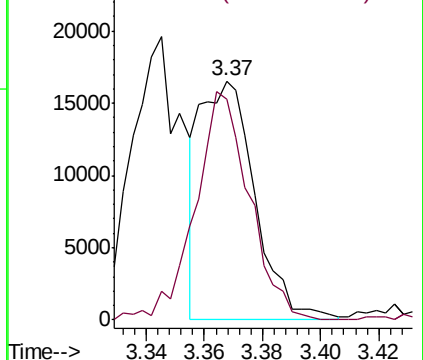
39 100

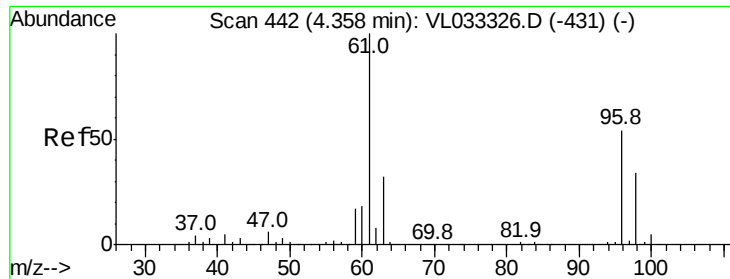
54 0.0 76.8 115.2#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

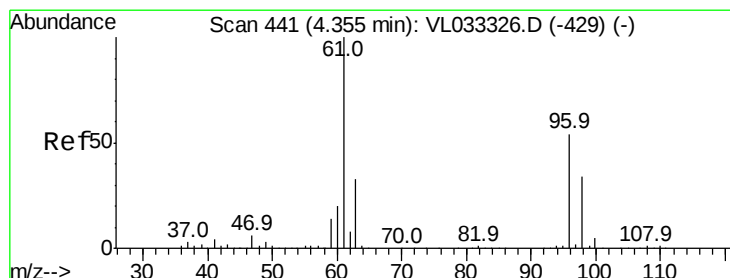
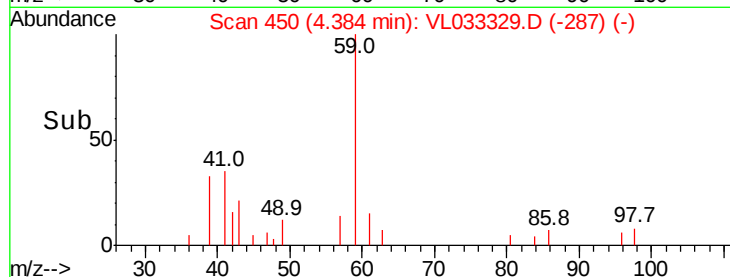
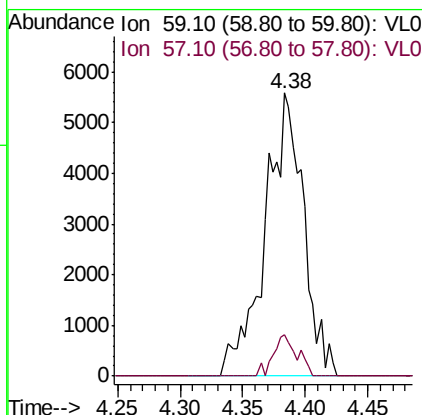
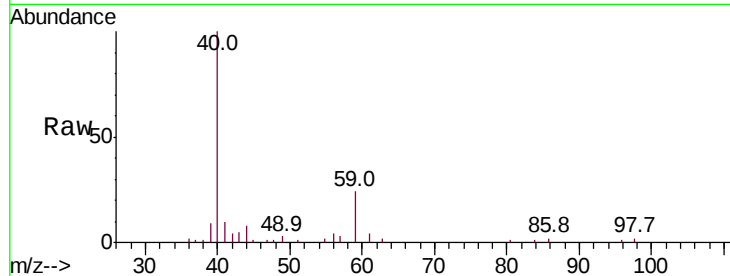
tert-Butyl alcohol
Concen: 0.632 ppbv m
RT: 4.38 min Scan# 450
Delta R.T. 0.03 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 59 Resp: 11977
Ion Ratio Lower Upper
59 100
57 0.0 7.7 11.5#

Manual Integrations
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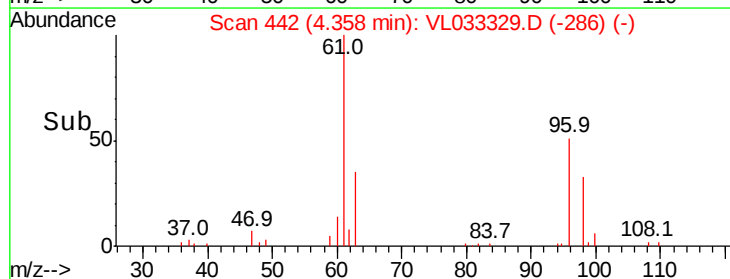
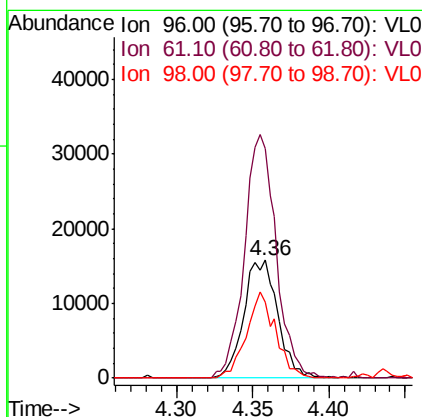
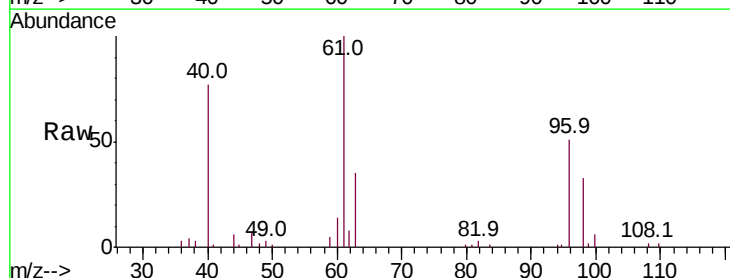
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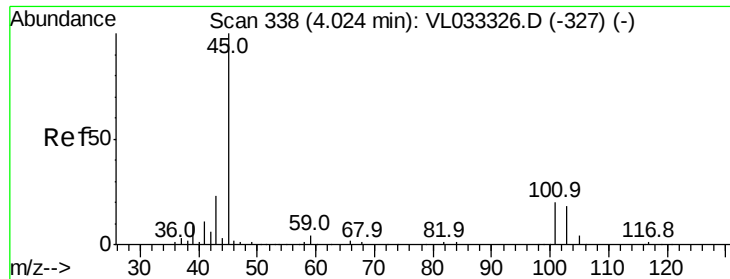


#18

1,1-Dichloroethene
Concen: 0.568 ppbv m
RT: 4.36 min Scan# 442
Delta R.T. 0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion: 96 Resp: 24609
Ion Ratio Lower Upper
96 100
61 195.1 148.6 222.8
98 64.8 50.3 75.5





#19

Isopropyl Alcohol

Concen: 0.643 ppbv m

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 45 Resp: 42838

Ion Ratio Lower Upper

45 100

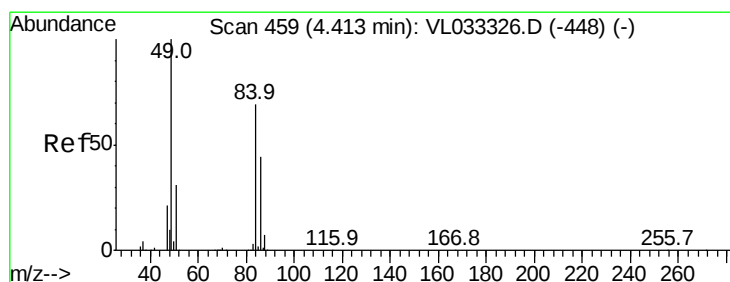
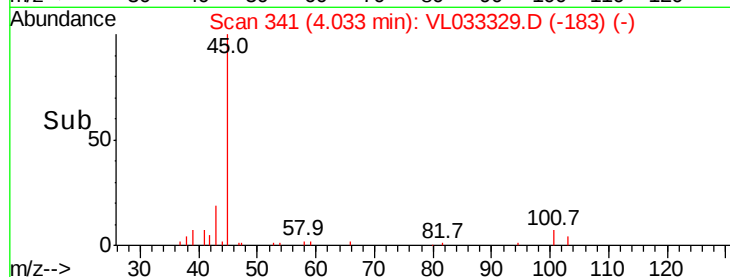
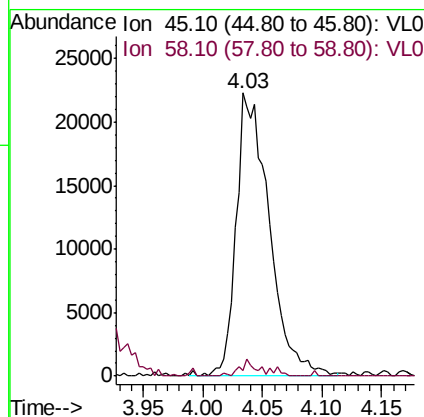
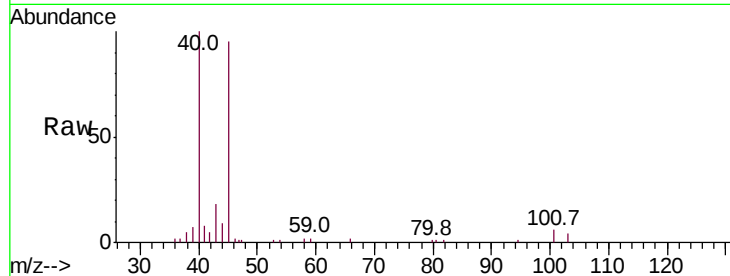
58 3.7 1.5 2.3#

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#20

Methylene Chloride

Concen: 0.624 ppbv m

RT: 4.41 min Scan# 458

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion: 84 Resp: 26564

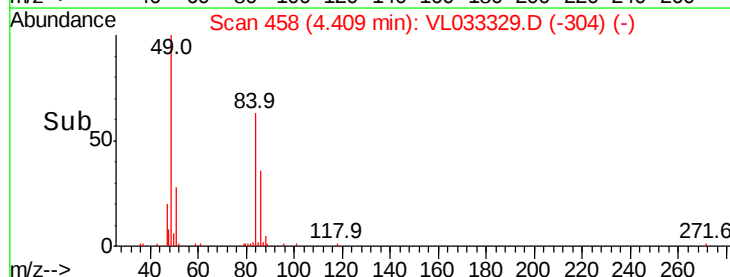
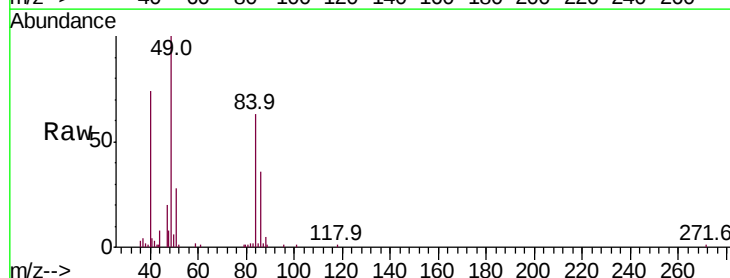
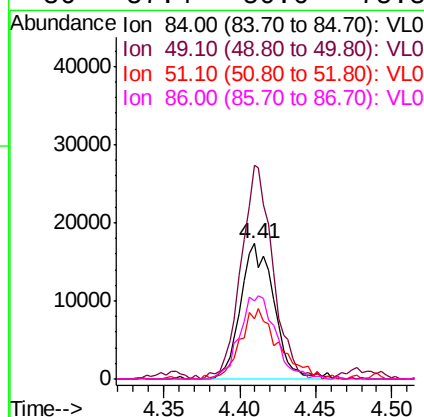
Ion Ratio Lower Upper

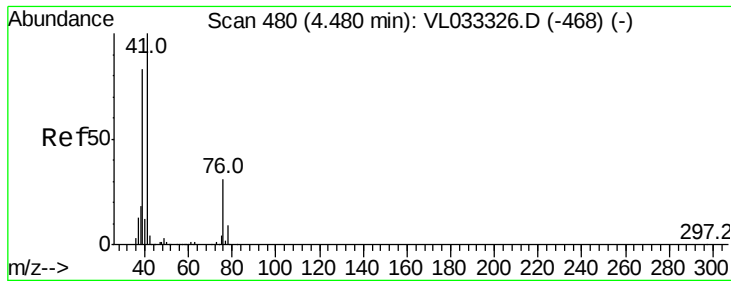
84 100

49 157.6 115.4 173.0

51 44.6 35.8 53.6

86 57.4 50.6 75.8





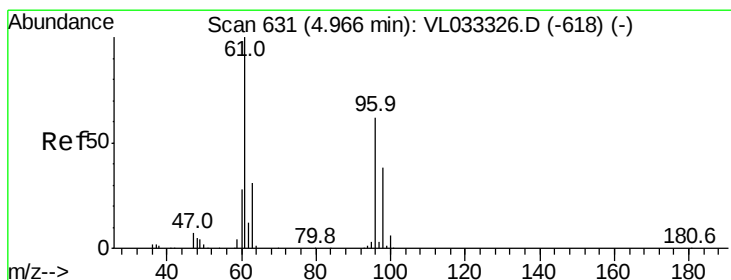
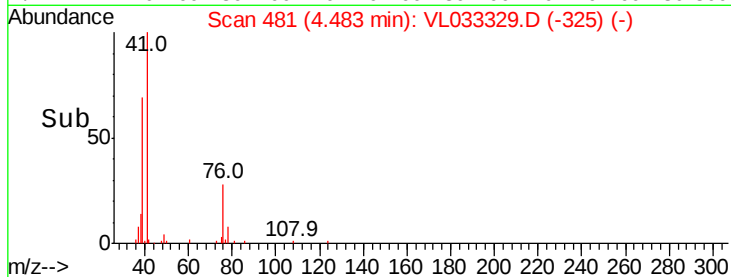
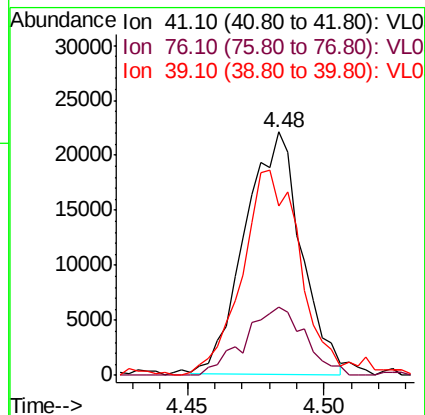
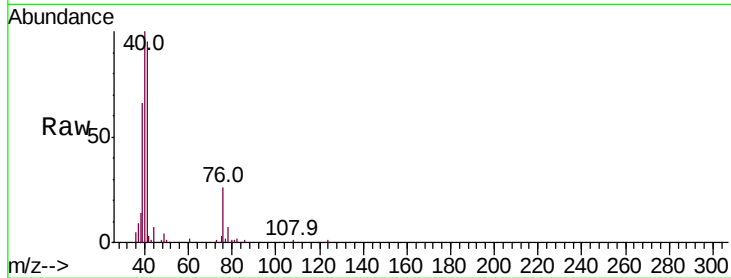
#21
Allvl Chloride
Concen: 0.482 ppbv
RT: 4.48 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
41	100	31714		
76	30.0		25.0	37.4
39	90.9		65.9	98.9

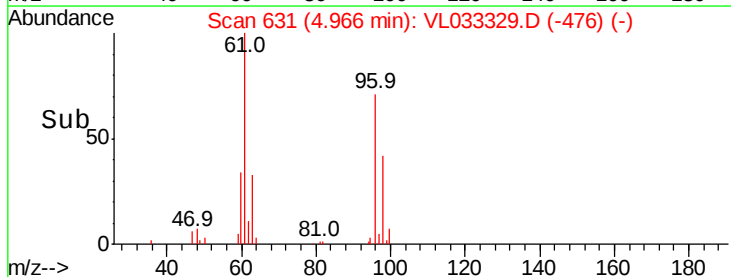
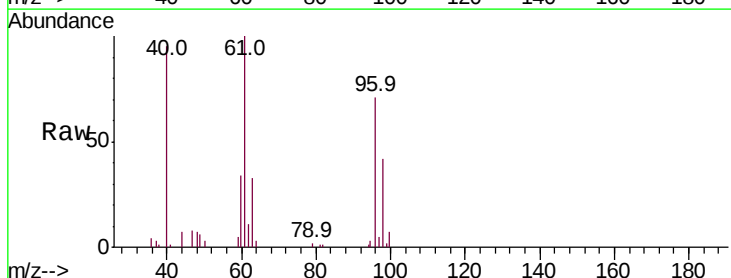
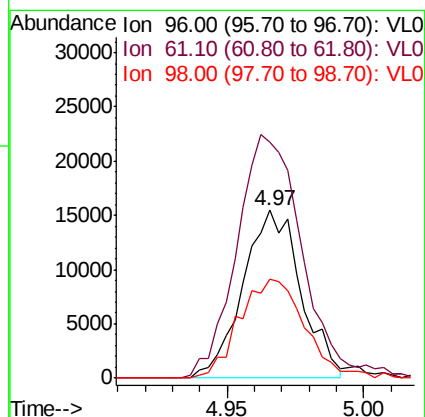
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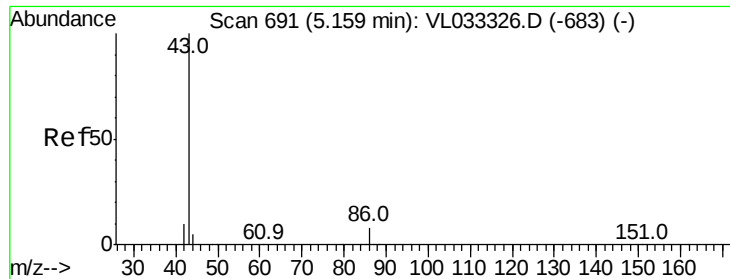
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#22
trans-1,2-Dichloroethene
Concen: 0.529 ppbv
RT: 4.97 min Scan# 631
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	22763		
61	139.5		130.0	195.0
98	59.2		50.0	75.0





#23

Vinyl Acetate

Concen: 0.477 ppbv

RT: 5.16 min Scan# 691

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

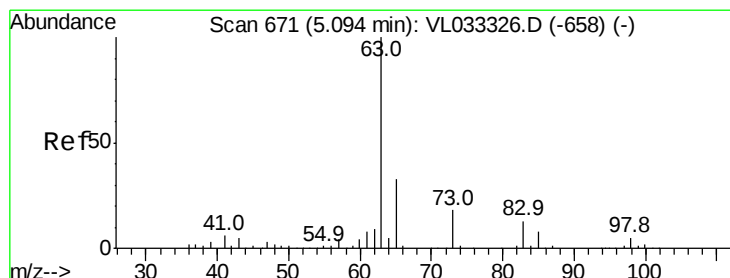
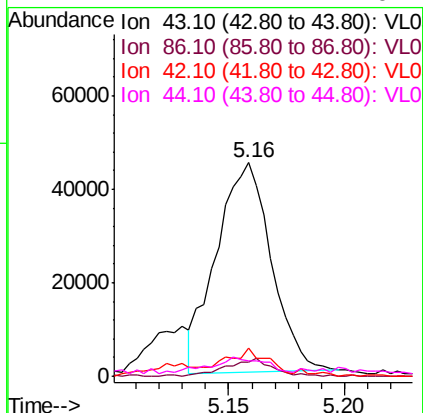
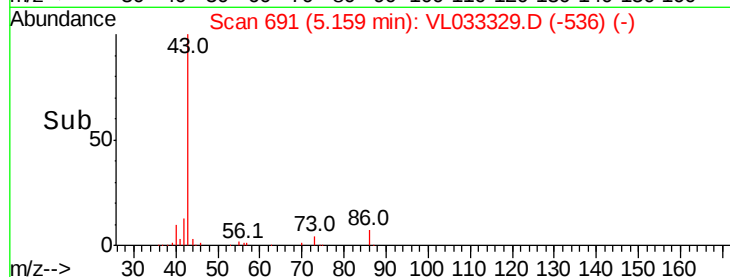
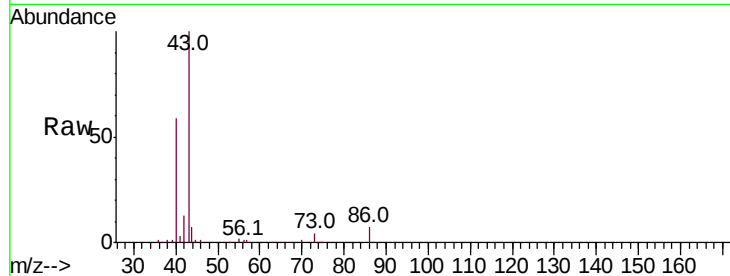
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	74100
Ion Ratio	Lower	Upper	
43	100		
86	6.8	6.2	9.2
42	13.8	8.1	12.1#
44	4.2	4.1	6.1

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#24

1,1-Dichloroethane

Concen: 0.537 ppbv

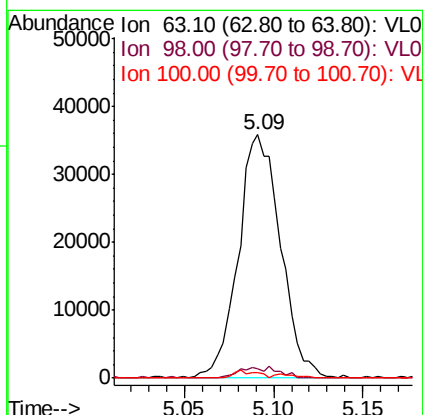
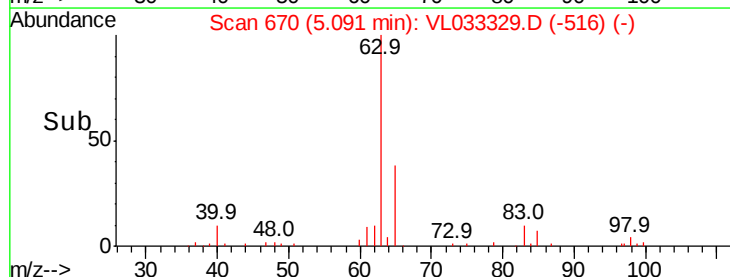
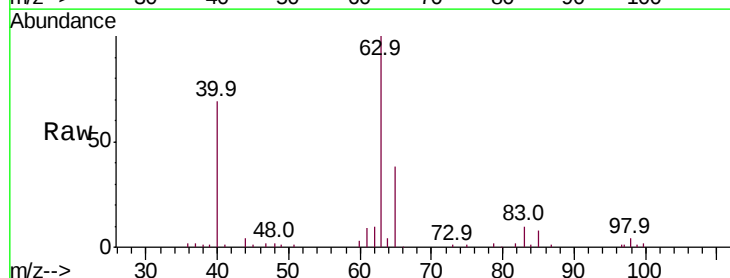
RT: 5.09 min Scan# 670

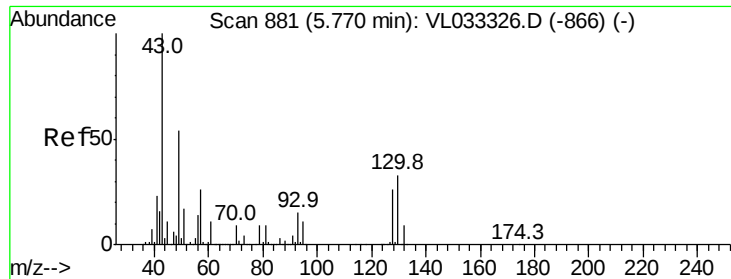
Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion:	63	Resp:	59339
Ion Ratio	Lower	Upper	
63	100		
98	3.7	2.4	7.1
100	2.2	1.3	3.8





#25

Ethyl Acetate

Concen: 0.527 ppbv

RT: 5.78 min Scan# 883

Delta R.T. 0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

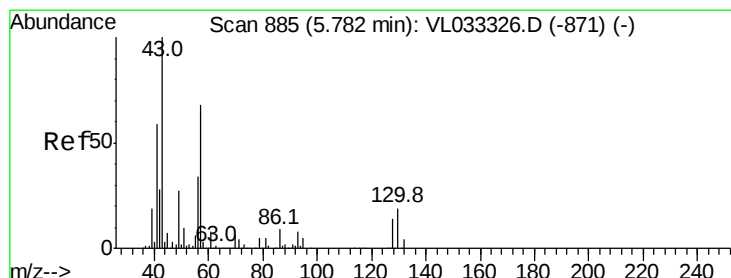
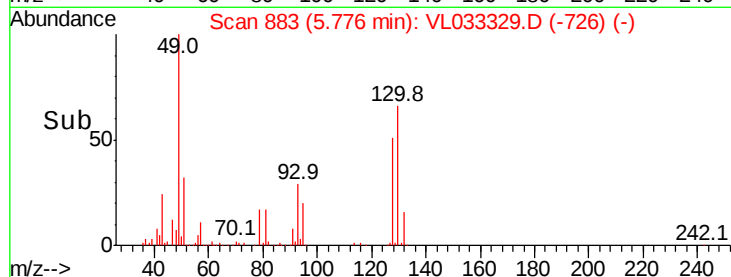
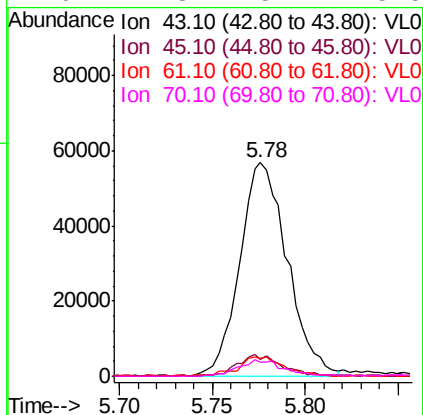
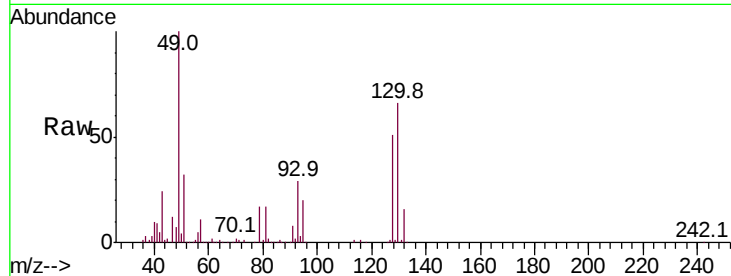
ClientSampleId :

VSTDIC0.5

Tot Ion	43	Resp	101381
Ion Ratio	Lower	Upper	
43	100		
45	9.8	7.9	11.9
61	8.8	7.4	11.2
70	7.3	5.7	8.5

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#26

Hexane

Concen: 0.517 ppbv m

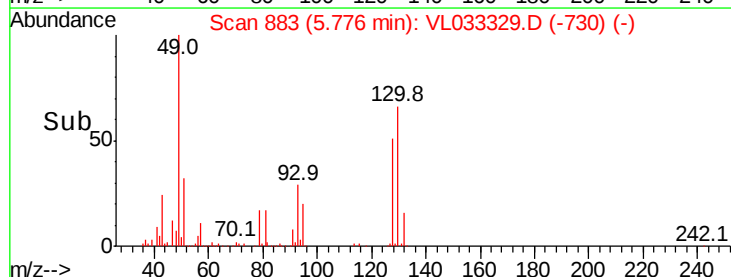
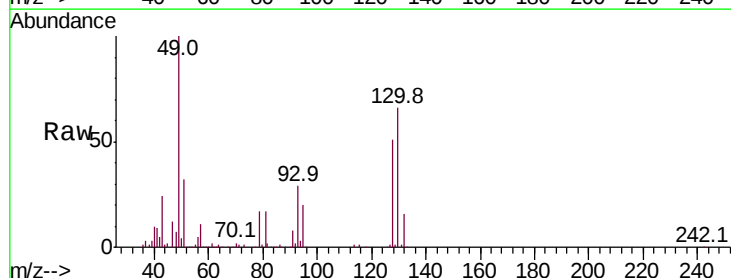
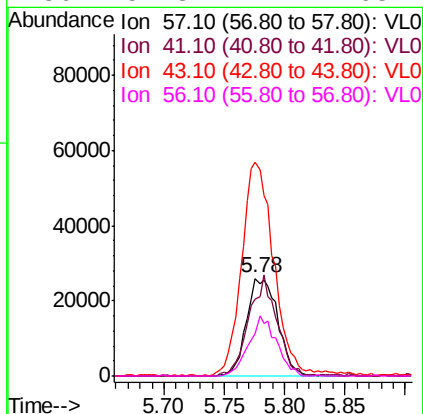
RT: 5.78 min Scan# 883

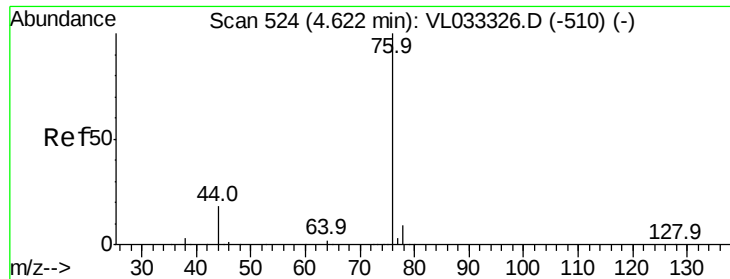
Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion	57	Resp	45460
Ion Ratio	Lower	Upper	
57	100		
41	93.9	70.5	105.7
43	0.0	181.8	272.8#
56	54.3	42.2	63.2





#27

Carbon Disulfide

Concen: 0.452 ppbv

RT: 4.62 min Scan# 525

Delta R.T. 0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

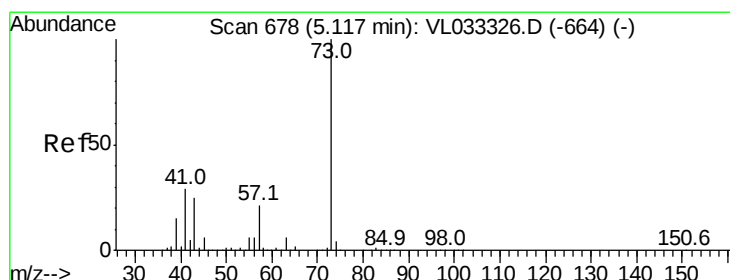
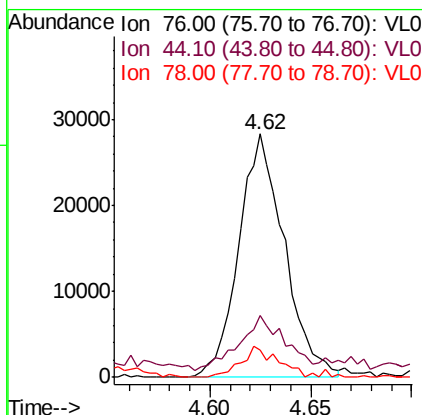
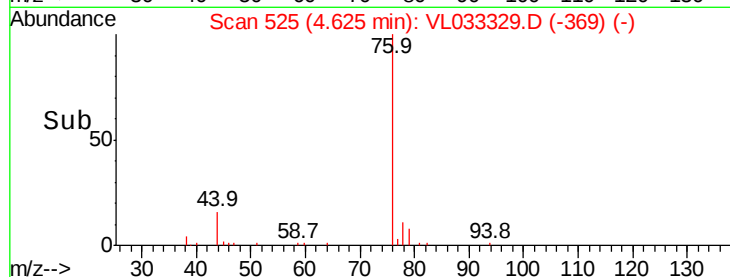
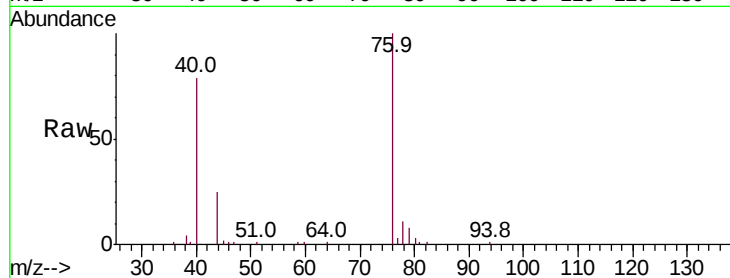
ClientSampleId :

VSTDIC0.5

Tot Ion:	76	Resp:	44901
Ion	Ratio	Lower	Upper
76	100		
44	24.2	15.2	22.8#
78	10.9	7.2	10.8#

Manual Integrations
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#28

Methyl tert-Butyl Ether

Concen: 0.516 ppbv

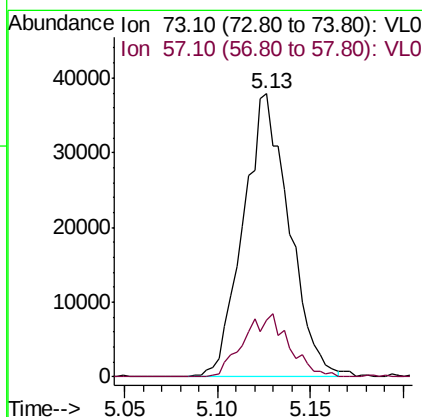
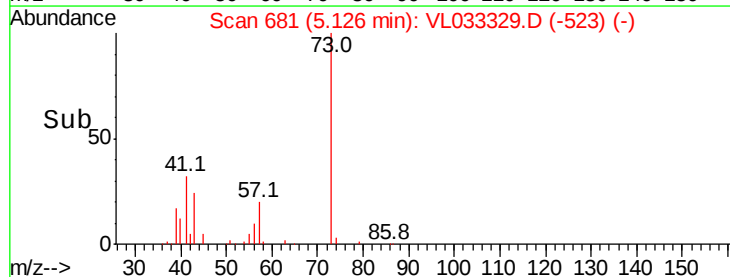
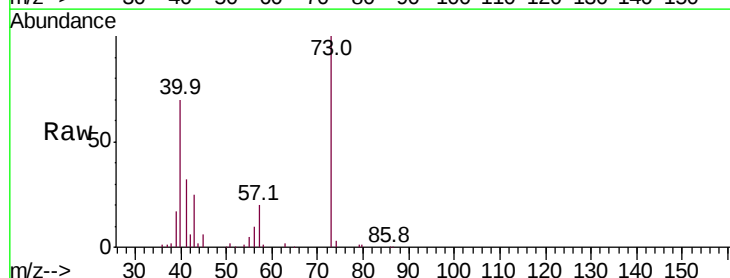
RT: 5.13 min Scan# 681

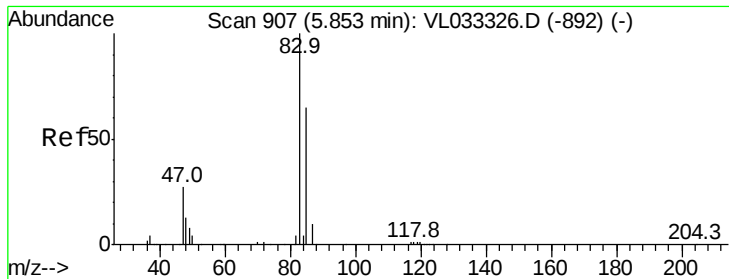
Delta R.T. 0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion:	73	Resp:	65366
Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.4	26.0





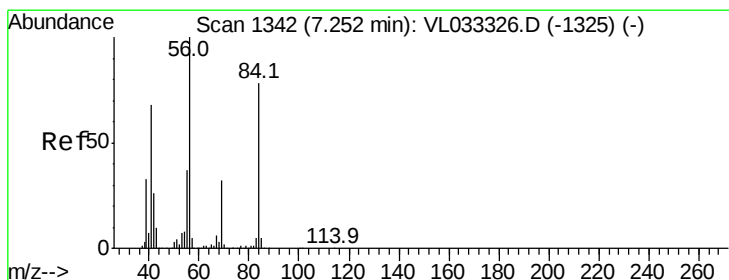
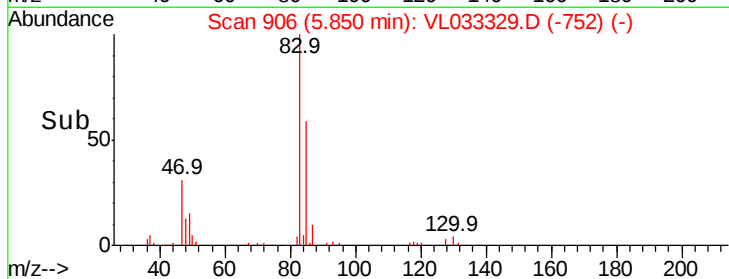
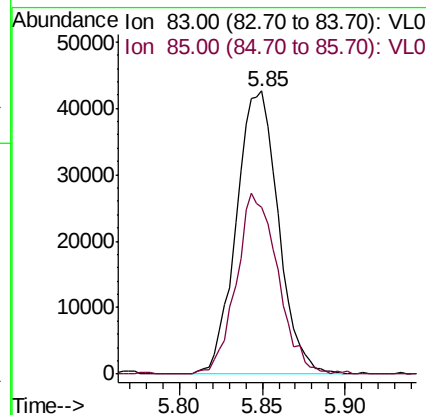
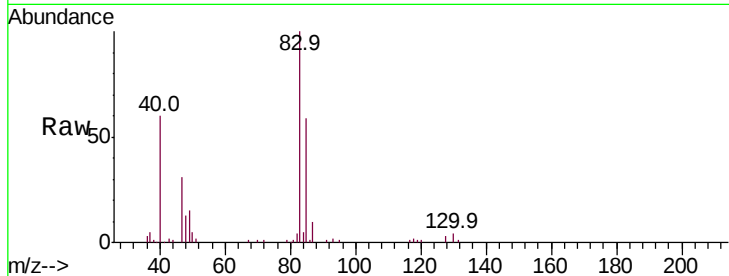
#29
Chloroform
Concen: 0.525 ppbv
RT: 5.85 min Scan# 906
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 83 Resp: 75230
Ion Ratio Lower Upper
83 100
85 58.8 52.0 78.0

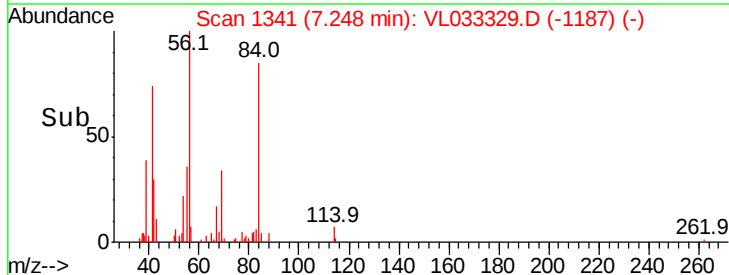
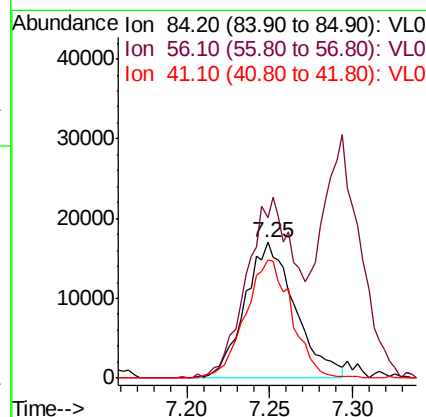
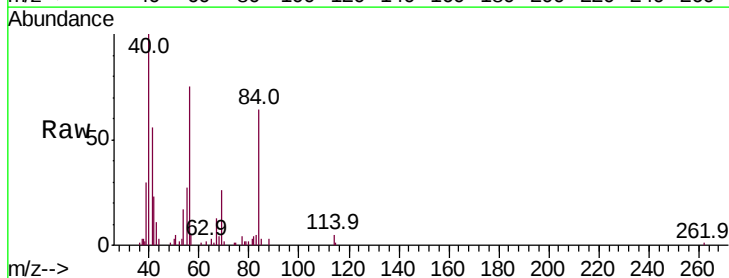
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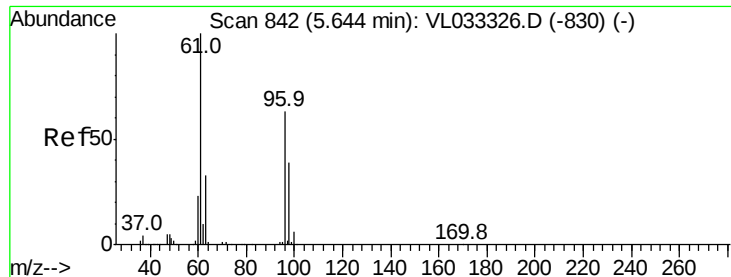
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#30
Cyclohexane
Concen: 0.515 ppbv
RT: 7.25 min Scan# 1341
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion: 84 Resp: 35916
Ion Ratio Lower Upper
84 100
56 118.9 111.3 166.9
41 80.9 69.6 104.4





#31

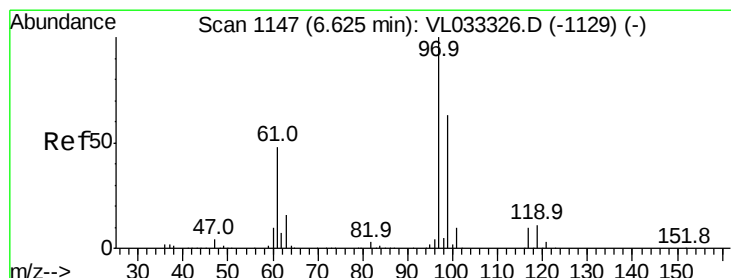
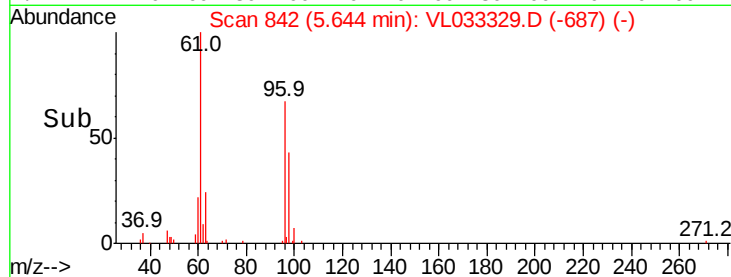
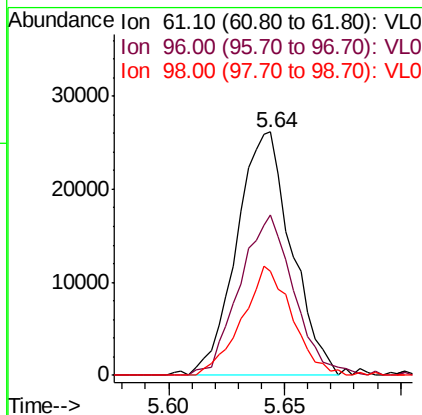
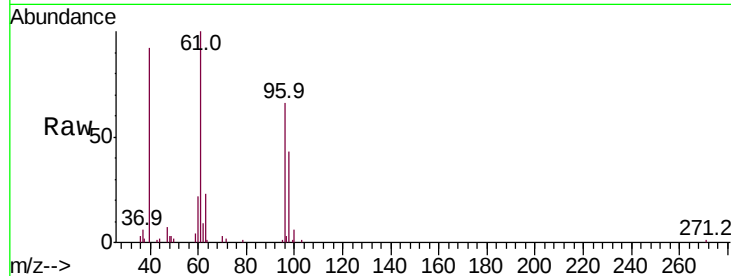
cis-1,2-Dichloroethene
Concen: 0.493 ppbv
RT: 5.64 min Scan# 842
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
61	100		
96	66.0	50.3	75.5
98	42.7	31.5	47.3

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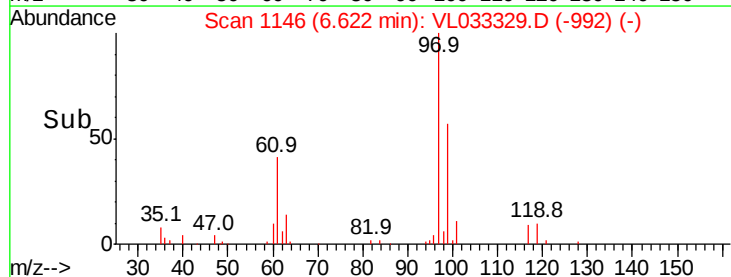
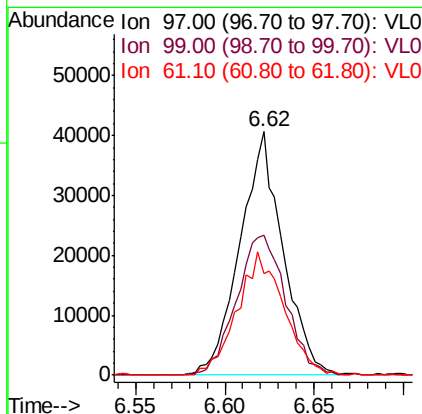
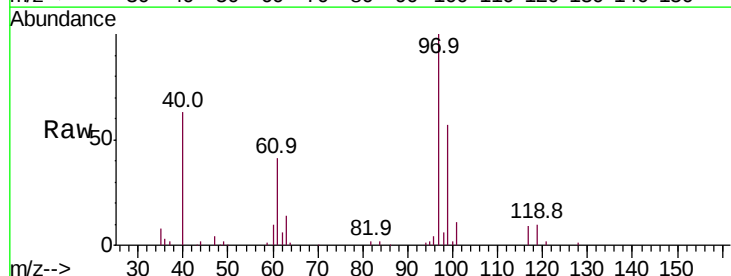
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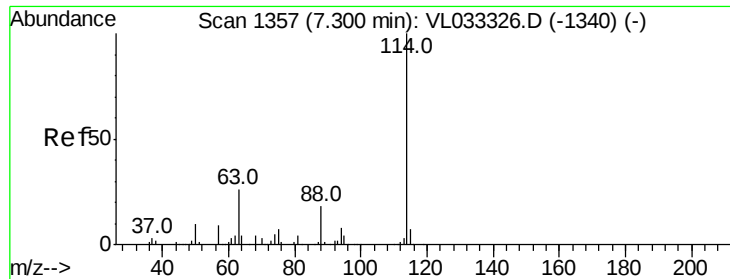


#32

1,1,1-Trichloroethane
Concen: 0.474 ppbv
RT: 6.62 min Scan# 1146
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
97	100		
99	66.7	51.0	76.6
61	55.3	39.3	58.9





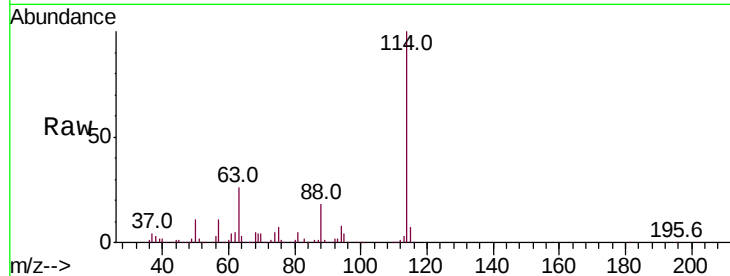
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1355
 Delta R.T. -0.01 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

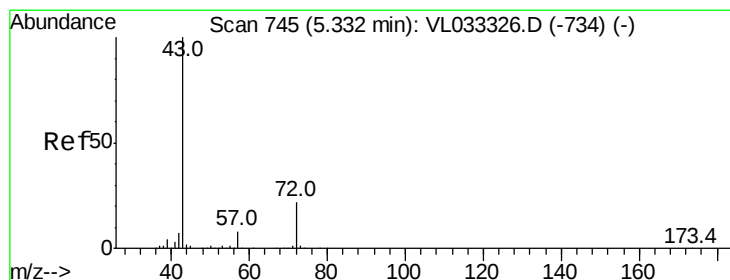
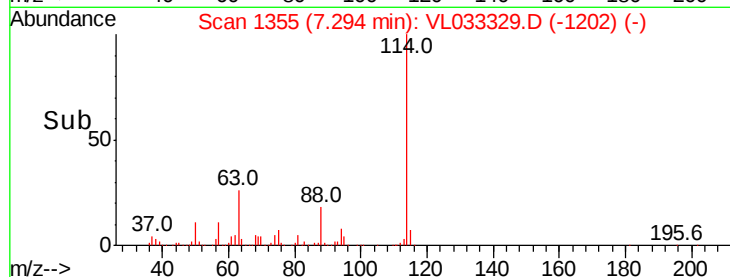
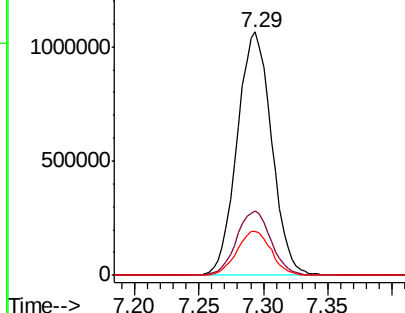
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	21.4	32.2
88	18.0	14.5	21.7

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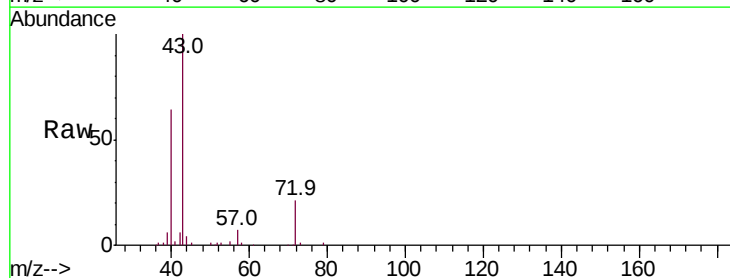


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

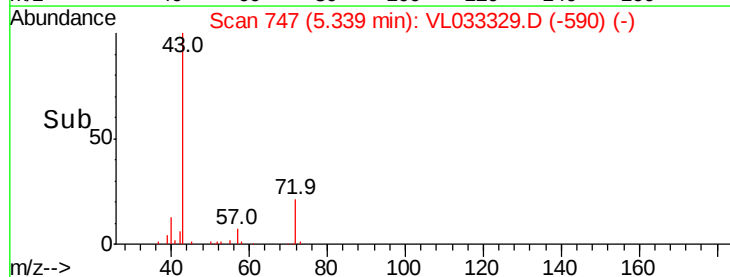
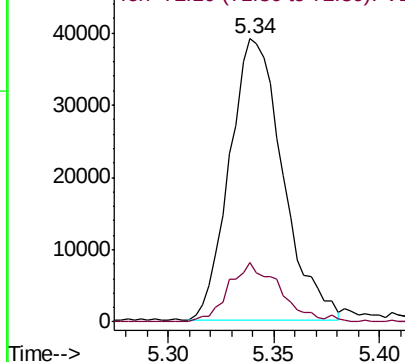


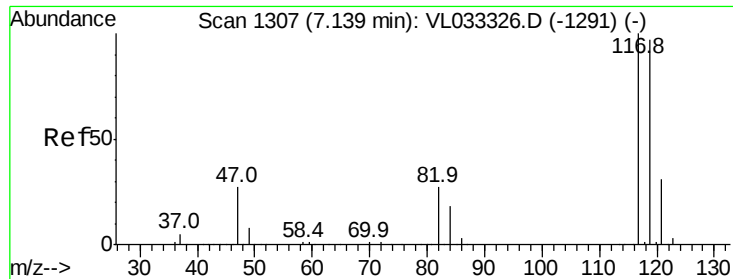
#34
 2-Butanone
 Concen: 0.542 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. 0.01 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.4	17.7	26.5



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.457 ppbv

RT: 7.13 min Scan# 1305

Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:117 Resp: 65470

Ion Ratio Lower Upper

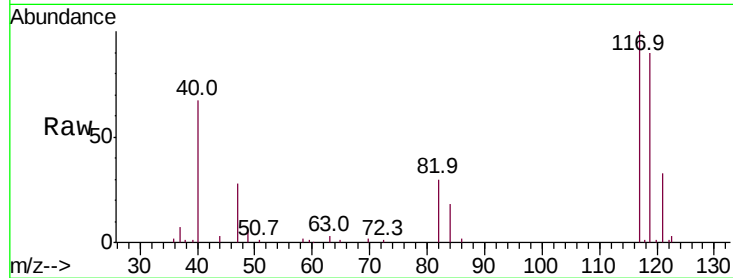
117 100

119 88.9 77.4 116.0

121 33.1 24.9 37.3

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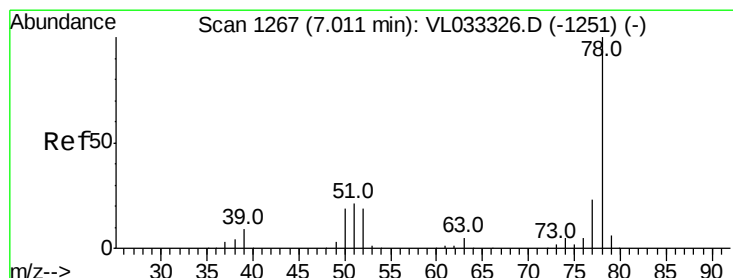
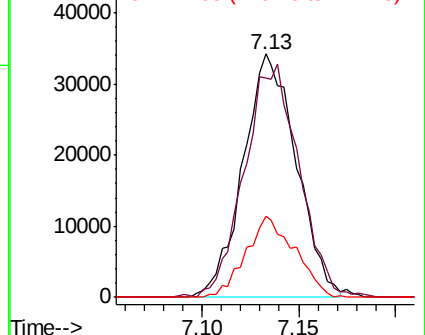
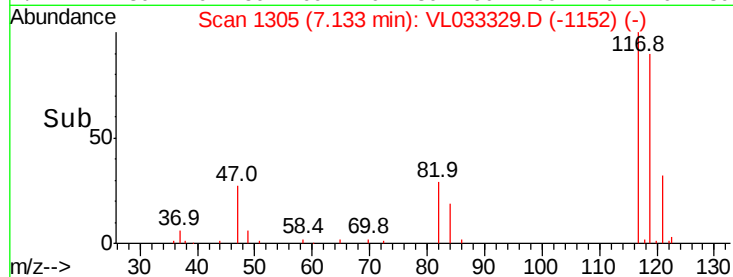
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.495 ppbv

RT: 7.00 min Scan# 1265

Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

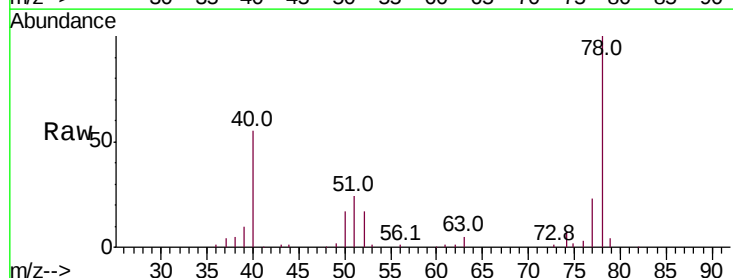
Tgt Ion: 78 Resp: 87798

Ion Ratio Lower Upper

78 100

77 22.5 18.1 27.1

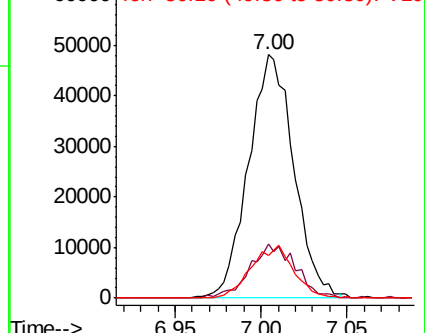
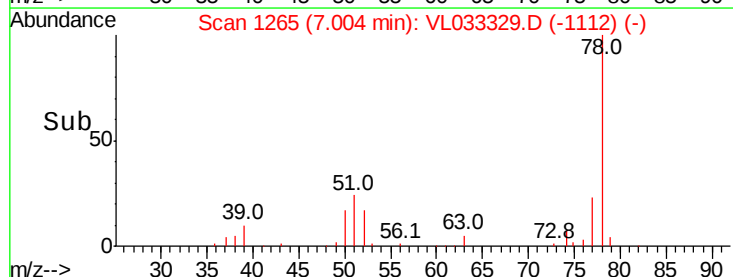
50 17.4 15.2 22.8

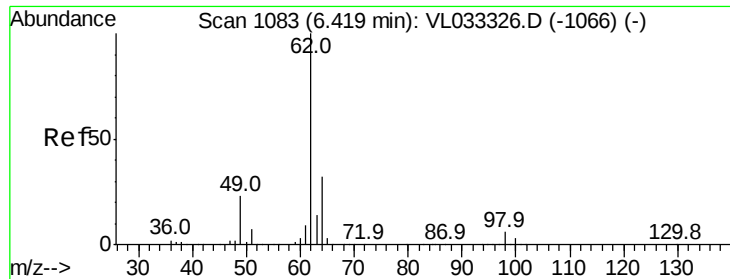


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#37

1,2-Dichloroethane

Concen: 0.532 ppbv

RT: 6.41 min Scan# 1081

Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

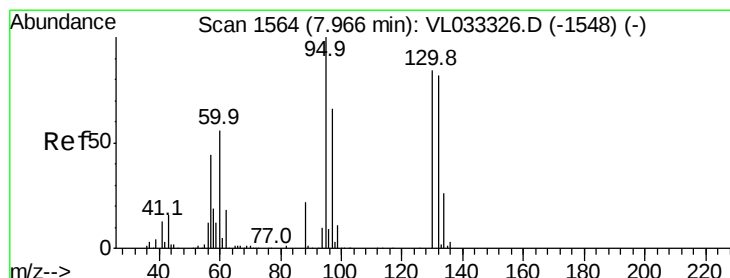
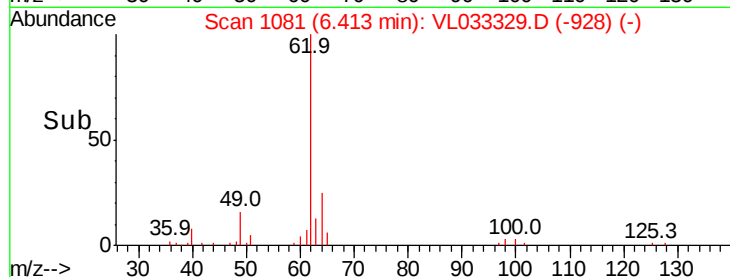
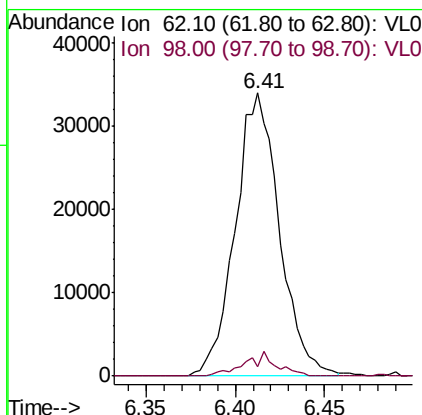
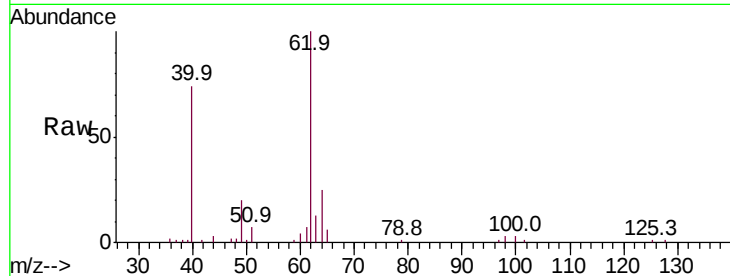
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 62 Resp: 58806

Ion	Ratio	Lower	Upper
62	100		
98	6.1	4.5	6.7

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#38

Trichloroethene

Concen: 0.487 ppbv

RT: 7.96 min Scan# 1563

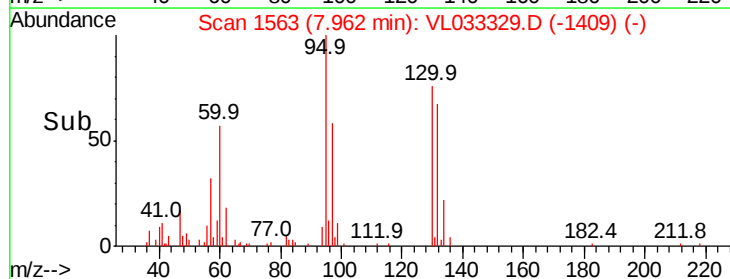
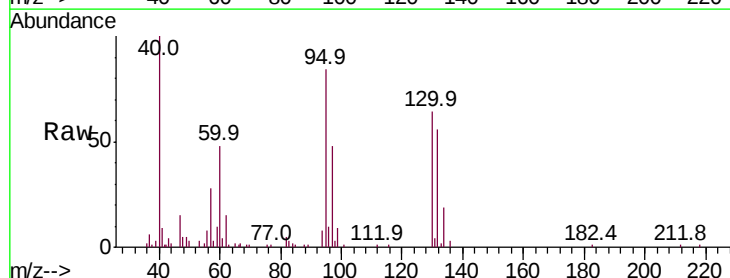
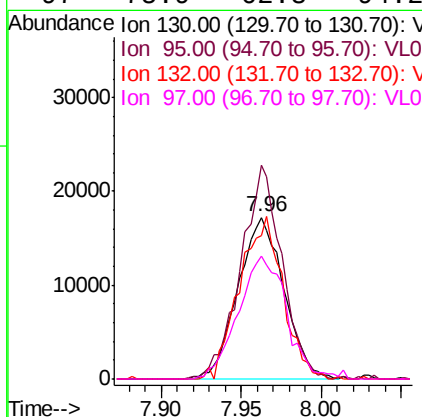
Delta R.T. -0.00 min

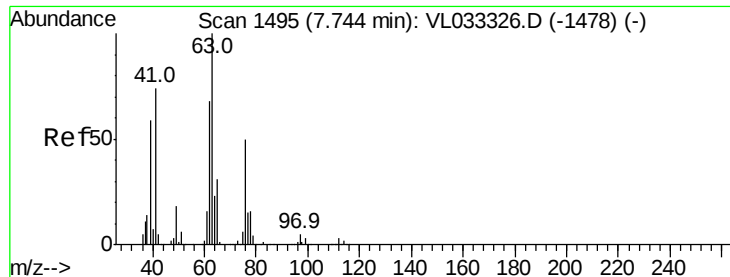
Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion: 130 Resp: 33988

Ion	Ratio	Lower	Upper
130	100		
95	131.0	95.2	142.8
132	88.4	77.7	116.5
97	75.9	62.8	94.2





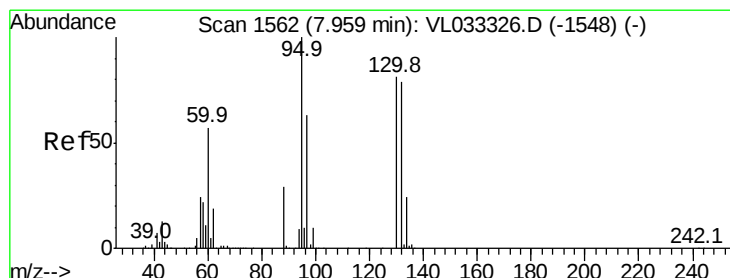
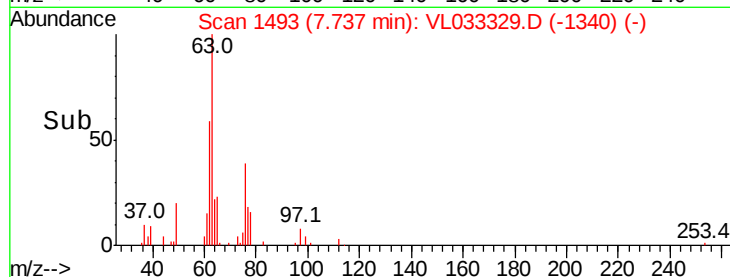
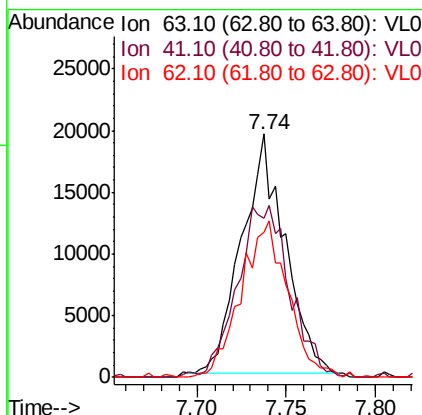
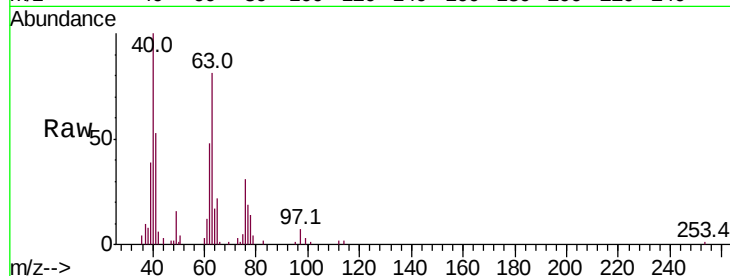
#39
 1,2-Dichloropropane
 Concen: 0.485 ppbv
 RT: 7.74 min Scan# 1493
 Delta R.T. -0.01 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
63	100		
41	65.7	59.5	89.3
62	60.8	54.7	82.1

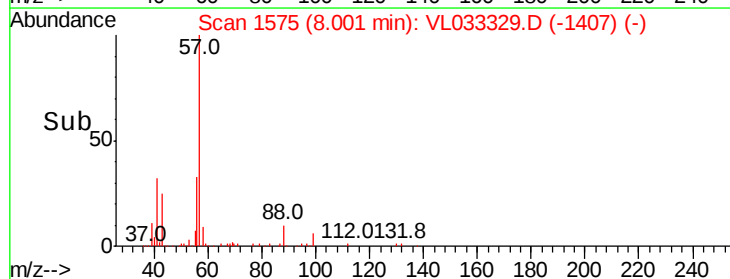
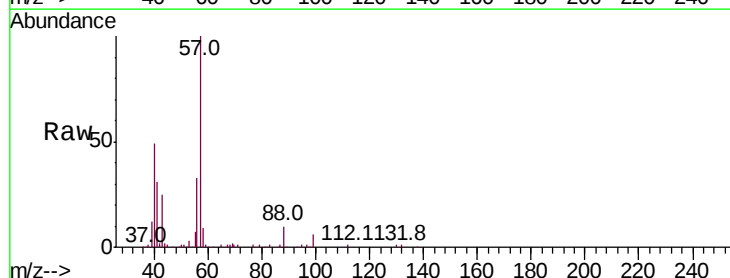
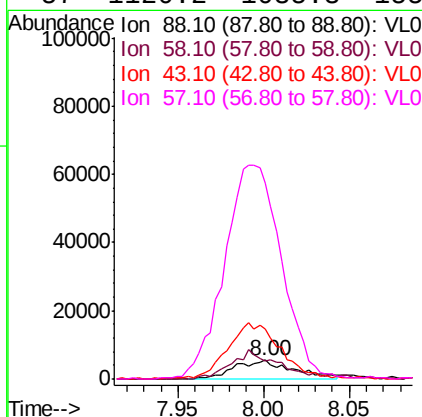
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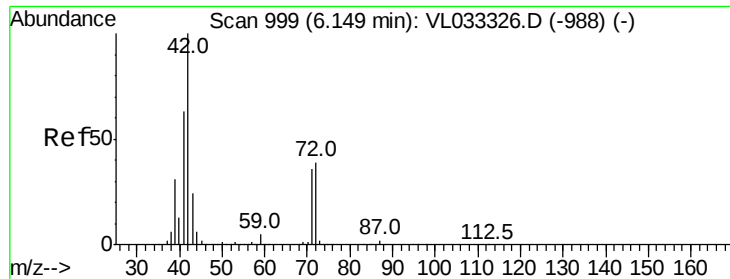
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#40
 1,4-Dioxane
 Concen: 0.528 ppbv m
 RT: 8.00 min Scan# 1575
 Delta R.T. 0.04 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
88	100		
58	137.1	107.9	161.9
43	275.1	230.8	346.2
57	1120.2	1035.3	1552.9





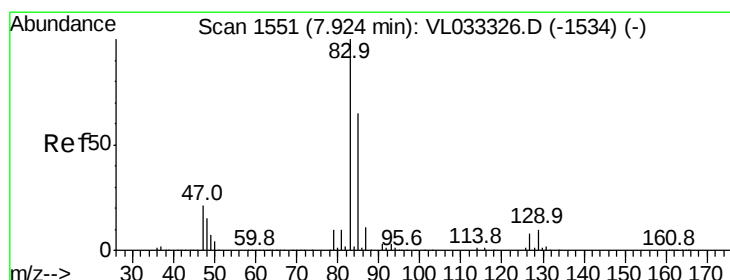
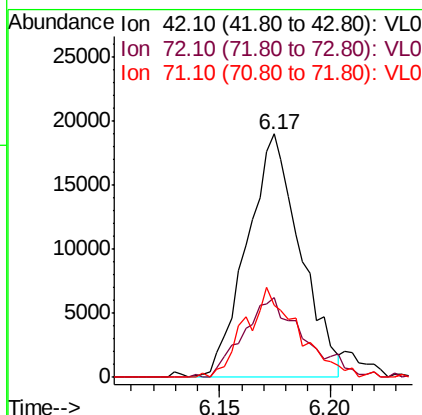
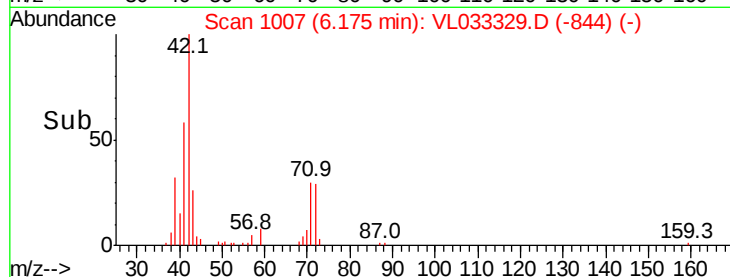
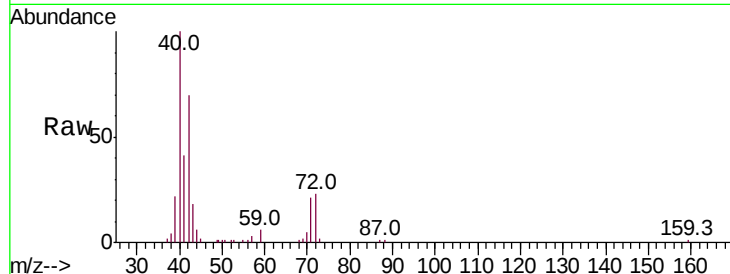
#41
Tetrahydrofuran
Concen: 0.456 ppbv
RT: 6.17 min Scan# 1007
Delta R.T. 0.03 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
42	100		
72	37.5	31.6	47.4
71	37.0	29.9	44.9

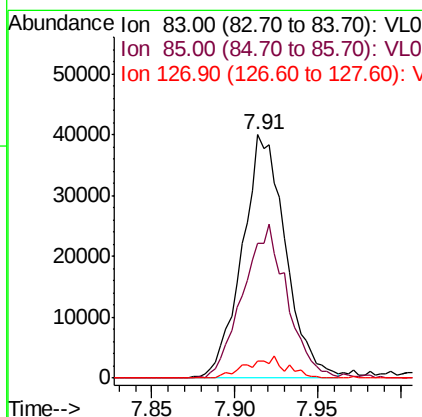
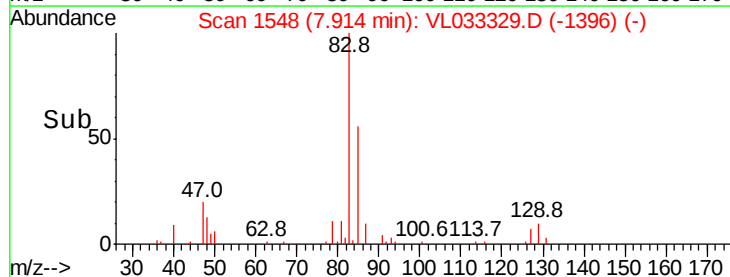
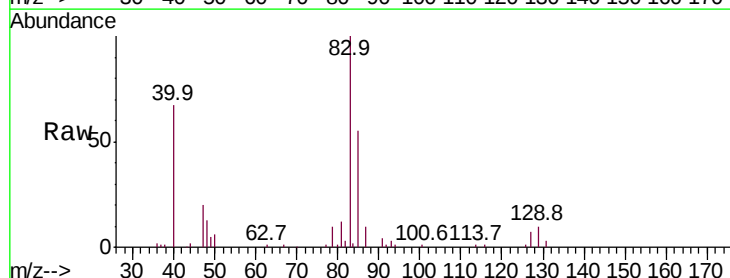
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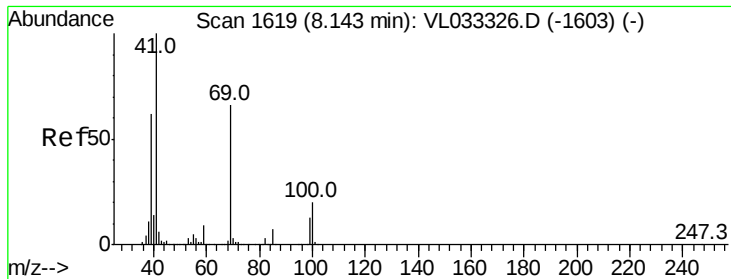
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#42
Bromodichloromethane
Concen: 0.484 ppbv
RT: 7.91 min Scan# 1548
Delta R.T. -0.01 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	54.9	51.8	77.6
127	6.8	6.2	9.2





#43

Methyl Methacrylate

Concen: 0.463 ppbv

RT: 8.15 min Scan# 1620

Delta R.T. 0.00 min

Lab File: VL033329.D

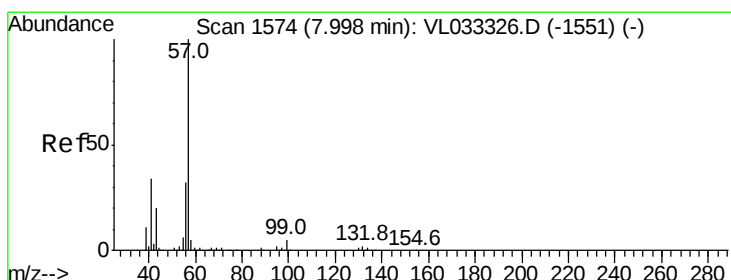
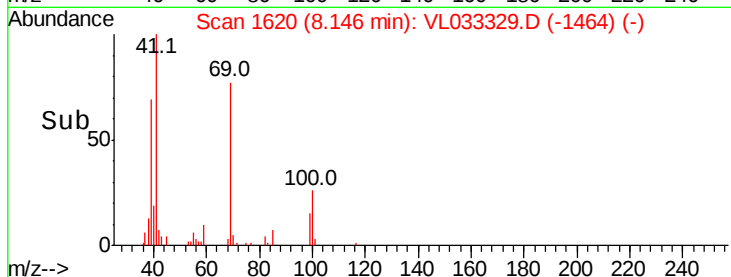
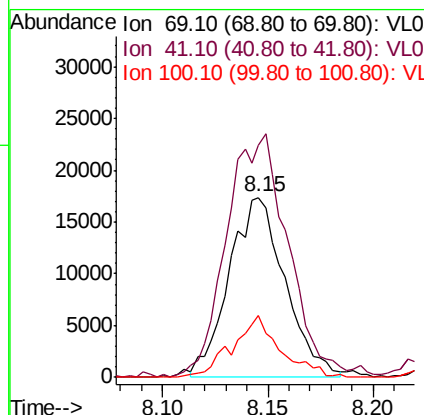
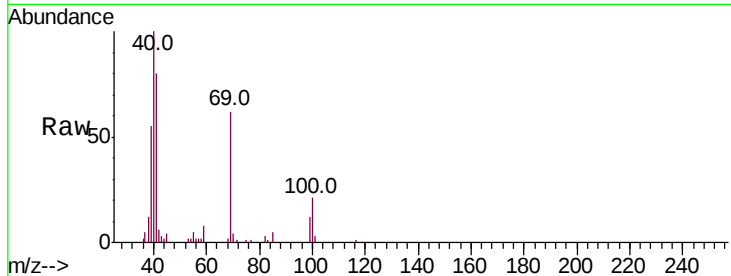
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
69	100		
41	149.7	119.5	179.3
100	29.3	24.4	36.6

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#44

2,2,4-Trimethylpentane

Concen: 0.483 ppbv

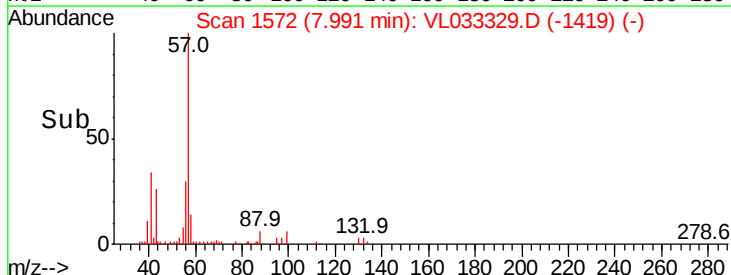
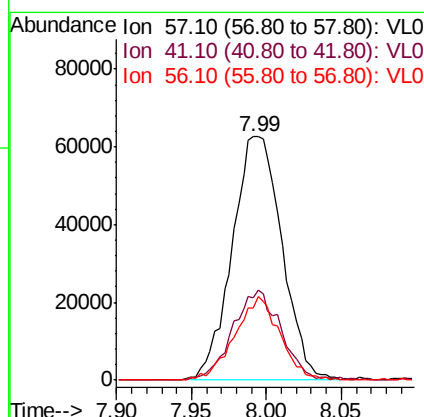
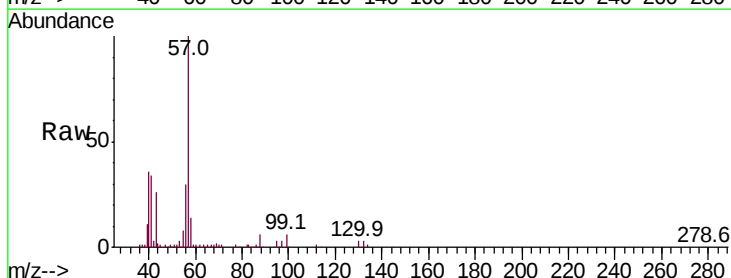
RT: 7.99 min Scan# 1572

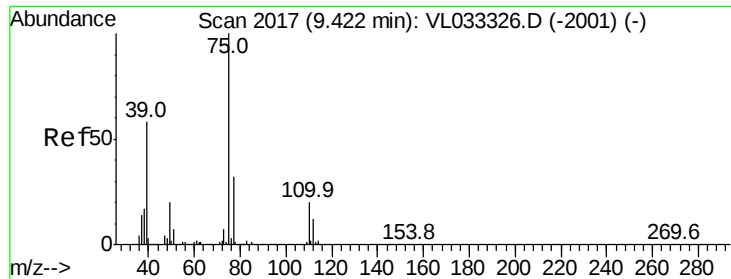
Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
57	100		
41	36.3	26.0	39.0
56	31.4	24.6	36.8





#45

t-1,3-Dichloropropene

Concen: 0.400 ppbv

RT: 9.42 min Scan# 2015

Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 75 Resp: 33857

Ion Ratio Lower Upper

75 100

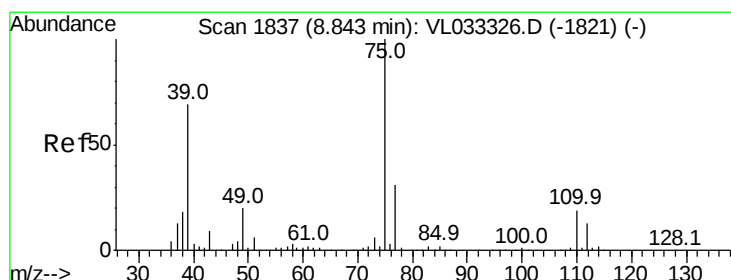
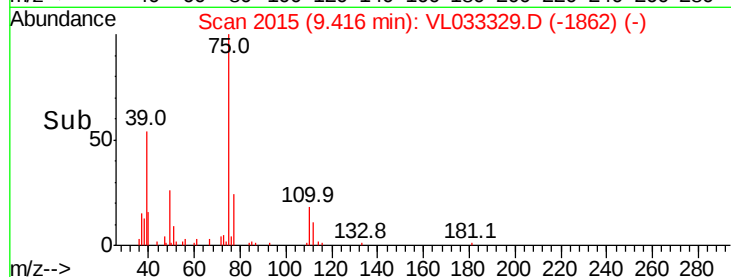
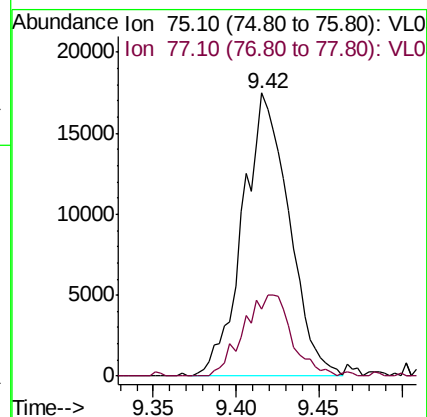
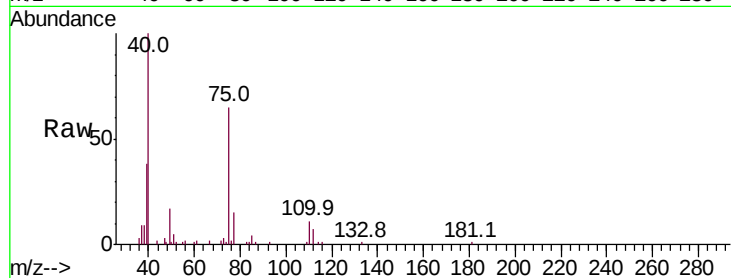
77 23.9 25.5 38.3#

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#46

cis-1,3-Dichloropropene

Concen: 0.431 ppbv

RT: 8.84 min Scan# 1835

Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

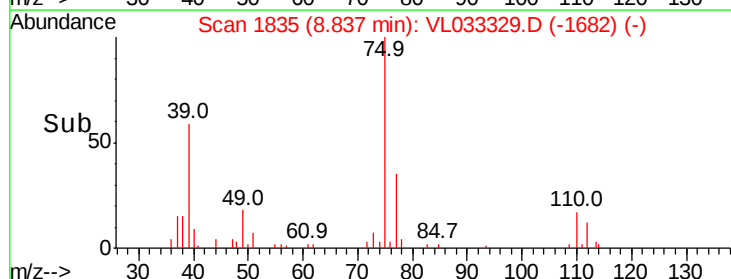
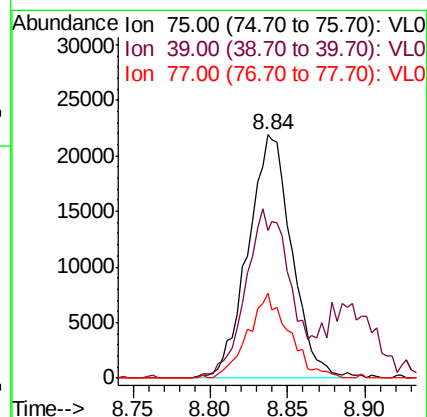
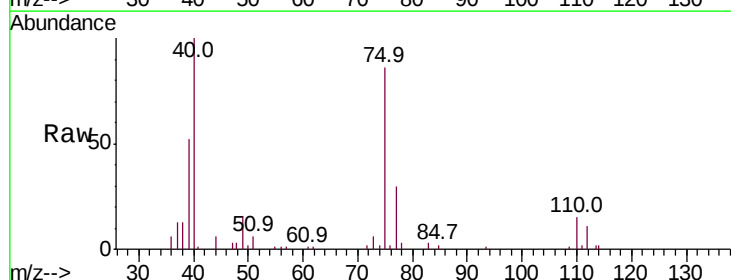
Tgt Ion: 75 Resp: 42921

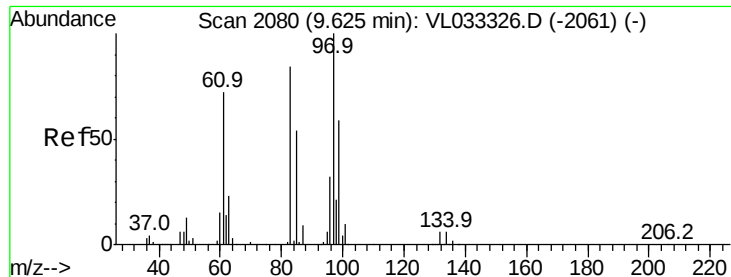
Ion Ratio Lower Upper

75 100

39 60.9 55.0 82.6

77 34.7 24.5 36.7





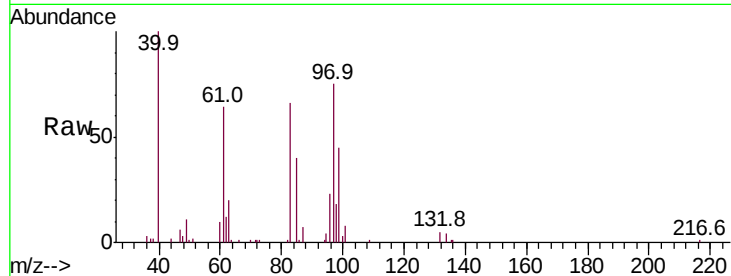
#47
 1,1,2-Trichloroethane
 Concen: 0.517 ppbv m
 RT: 9.61 min Scan# 2077
 Delta R.T. -0.01 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

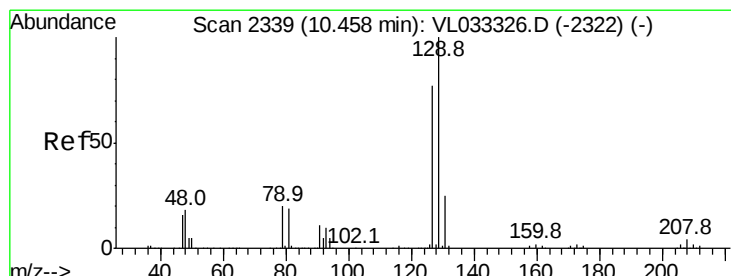
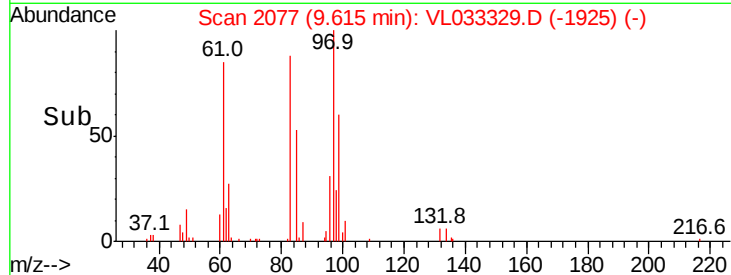
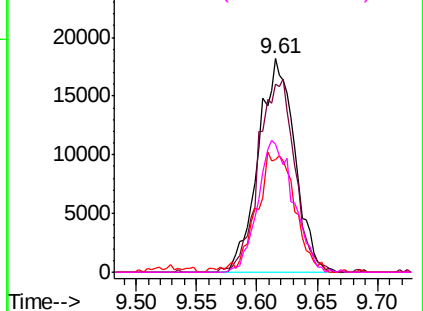
Tot Ion	Ratio	Lower	Upper
97	100		
83	87.8	67.4	101.0
85	53.0	43.0	64.4
99	59.7	47.0	70.6

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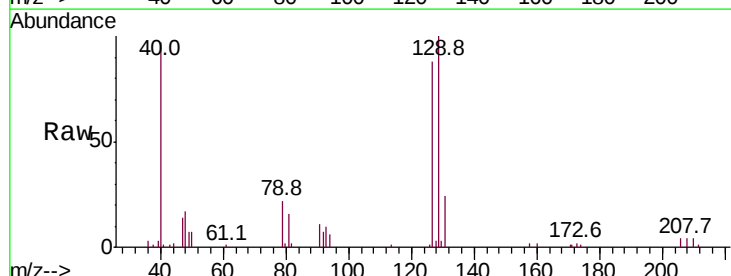


Abundance Ion 97.00 (96.70 to 97.70): VL0
 Ion 83.00 (82.70 to 83.70): VL0
 Ion 85.00 (84.70 to 85.70): VL0
 Ion 99.00 (98.70 to 99.70): VL0

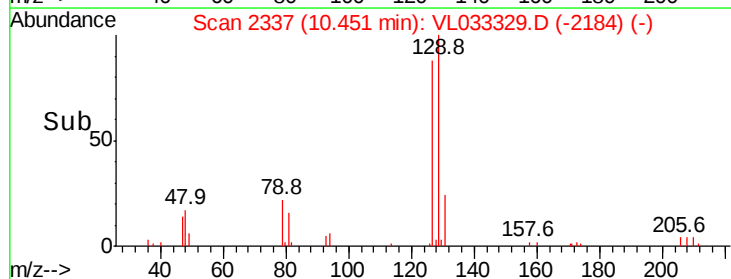
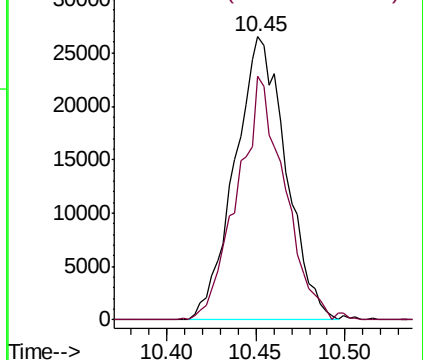


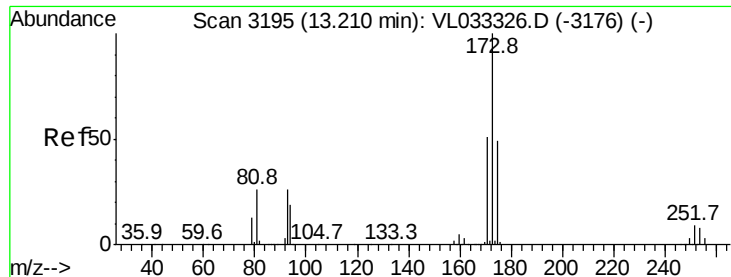
#48
 Dibromochloromethane
 Concen: 0.428 ppbv
 RT: 10.45 min Scan# 2337
 Delta R.T. -0.01 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
129	100		
127	79.4	38.9	116.6



Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V





#49

Bromoform

Concen: 0.441 ppbv m

RT: 13.21 min Scan# 3195

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion:173 Resp: 49534

Ion Ratio Lower Upper

173 100

175 48.3 39.0 58.6

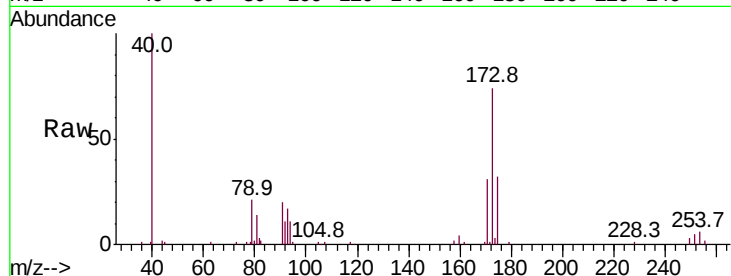
171 50.7 41.7 62.5

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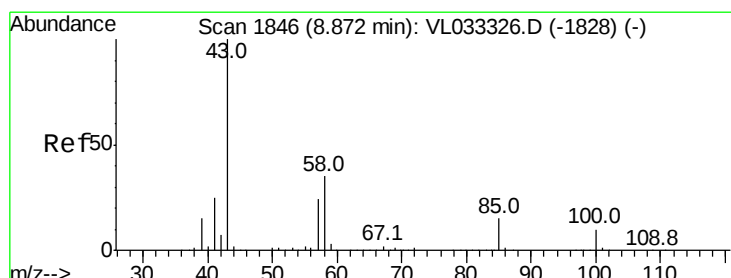
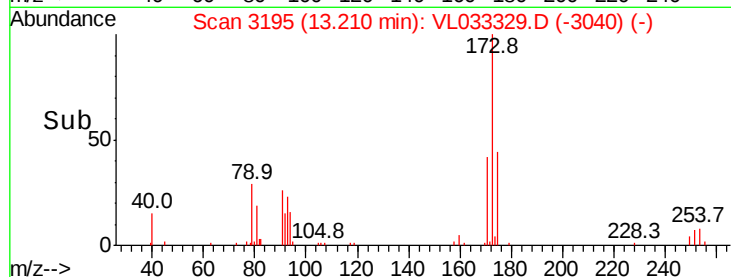
Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V

13.21

Time-->



#50

4-Methyl-2-Pentanone

Concen: 0.482 ppbv

RT: 8.89 min Scan# 1852

Delta R.T. 0.02 min

Lab File: VL033329.D

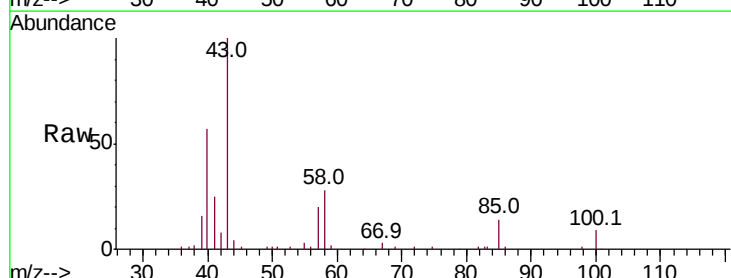
Acq: 15 Mar 2019 12:21

Tgt Ion: 43 Resp: 88712

Ion Ratio Lower Upper

43 100

58 33.8 28.4 42.6

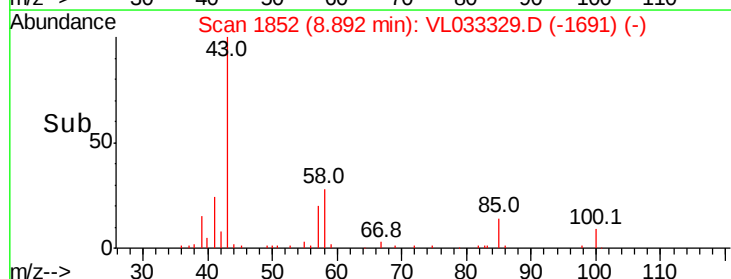


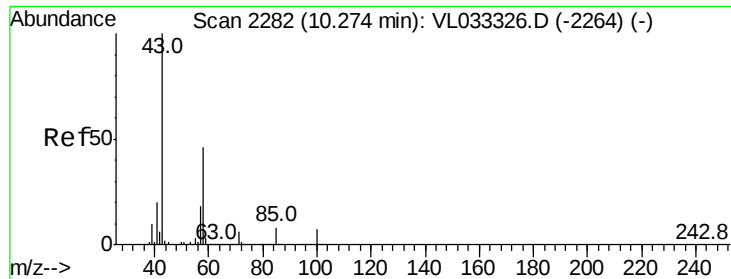
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

8.89

Time-->





#51

2-Hexanone

Concen: 0.431 ppbv

RT: 10.29 min Scan# 2288

Delta R.T. 0.02 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

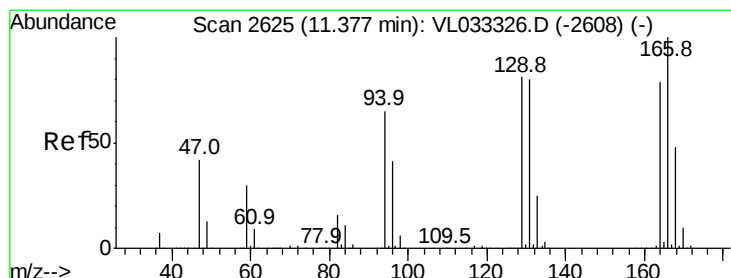
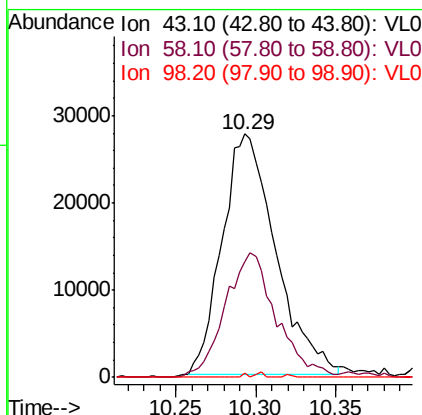
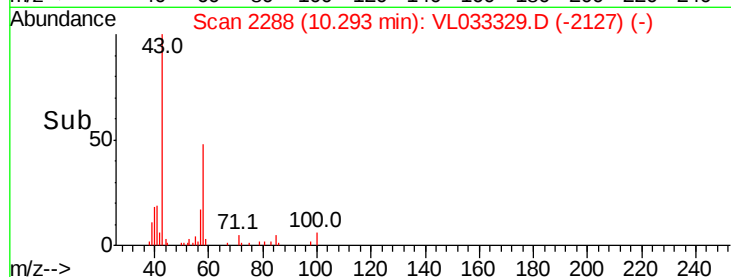
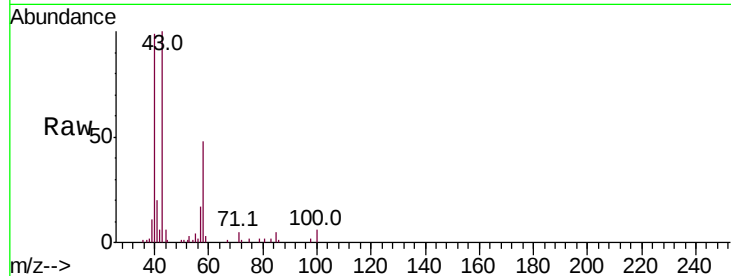
ClientSampleId :

VSTDIC0.5

Tot Ion:	43	Resp:	63137
Ion Ratio	Lower	Upper	
43	100		
58	50.5	38.0	57.0
98	0.1	0.1	0.1#

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#52

Tetrachloroethene

Concen: 0.473 ppbv

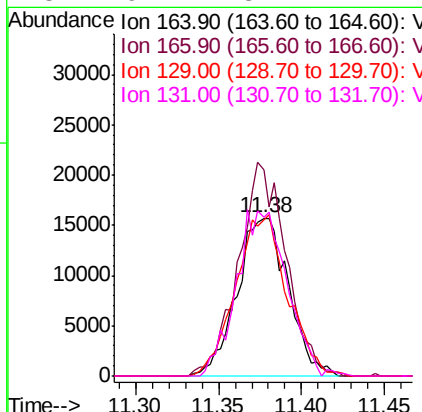
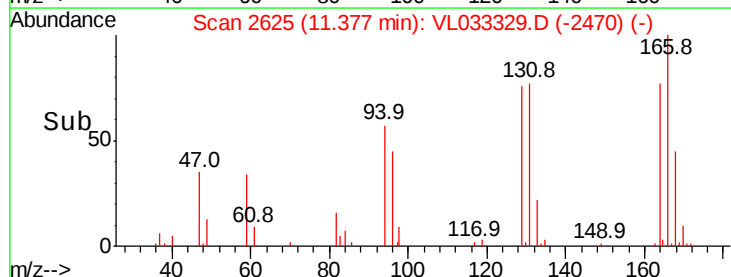
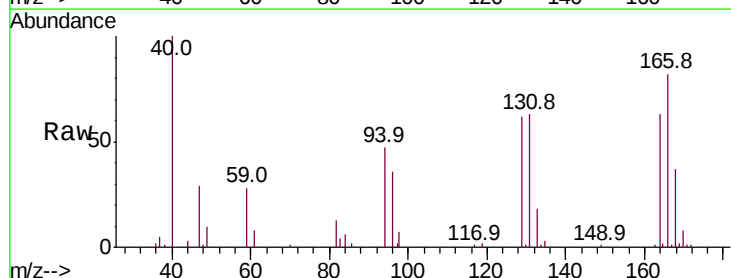
RT: 11.38 min Scan# 2625

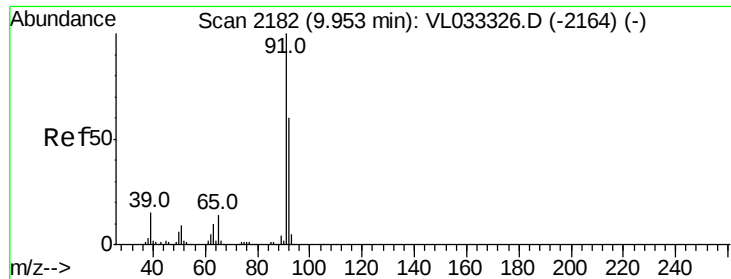
Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion:	164	Resp:	33892
Ion Ratio	Lower	Upper	
164	100		
166	125.6	101.5	152.3
129	97.7	82.2	123.2
131	97.2	81.1	121.7





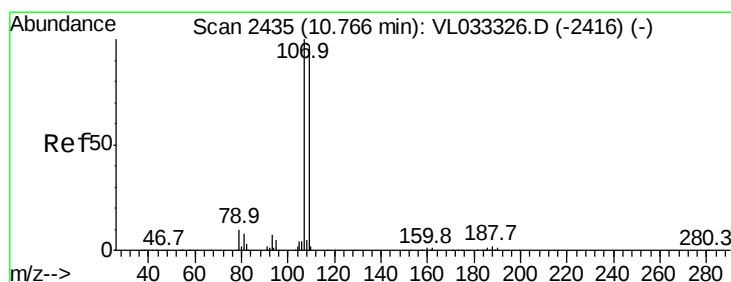
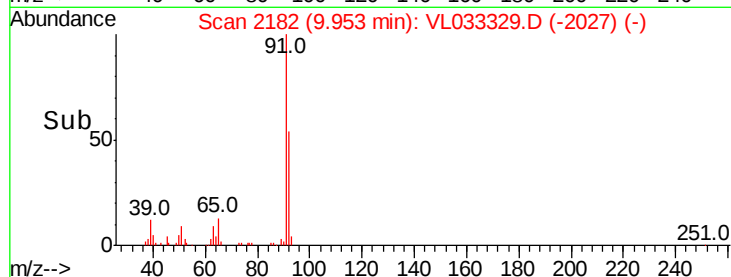
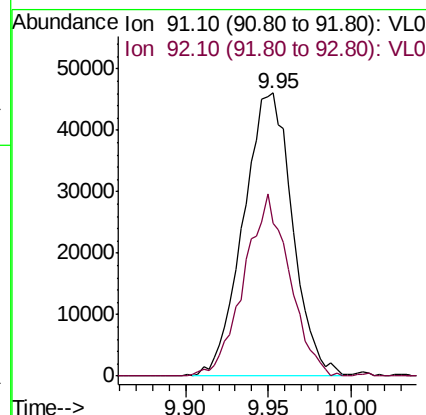
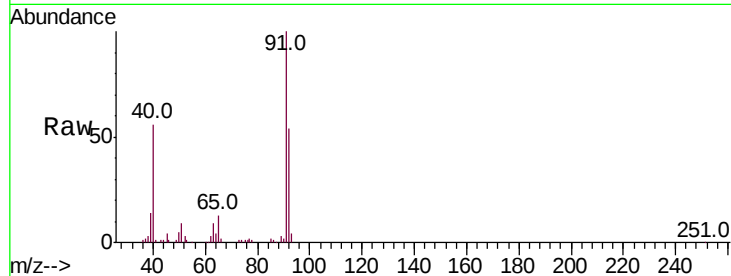
#53
Toluene
Concen: 0.465 ppbv
RT: 9.95 min Scan# 2182
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion: 91 Resp: 94000
Ion Ratio Lower Upper
91 100
92 60.0 47.4 71.0

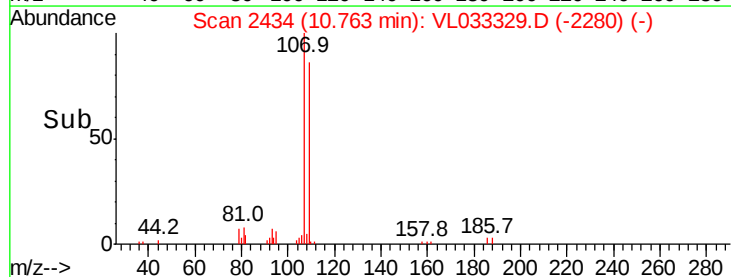
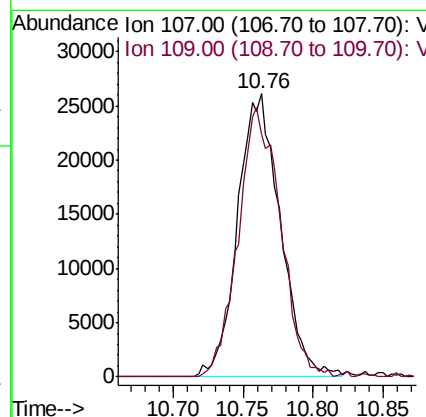
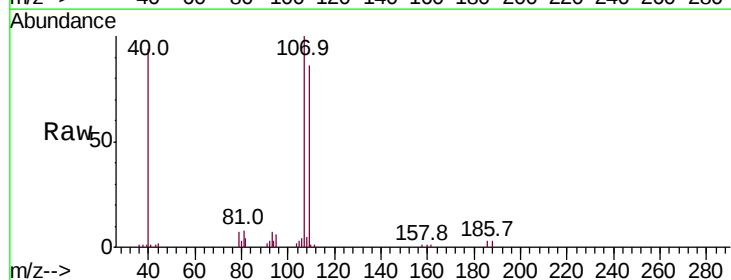
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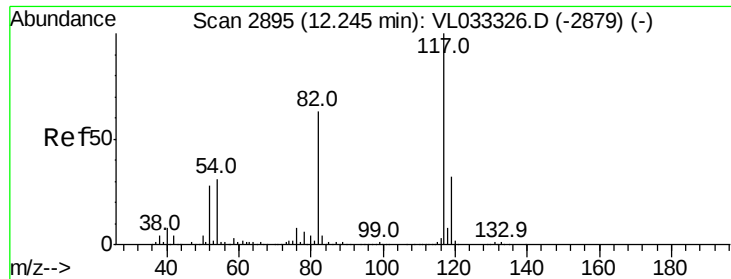
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#54
1,2-Dibromoethane
Concen: 0.468 ppbv m
RT: 10.76 min Scan# 2434
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion: 107 Resp: 55420
Ion Ratio Lower Upper
107 100
109 85.8 77.2 115.8





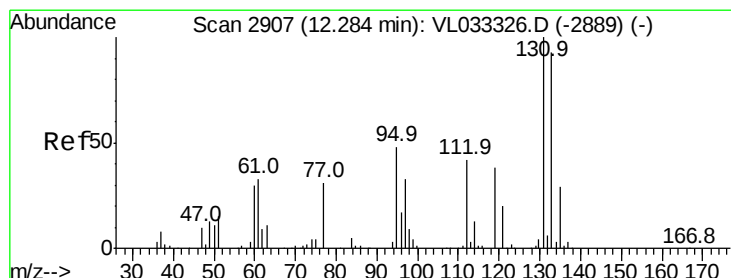
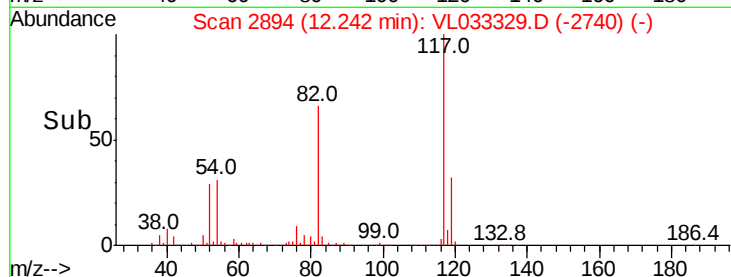
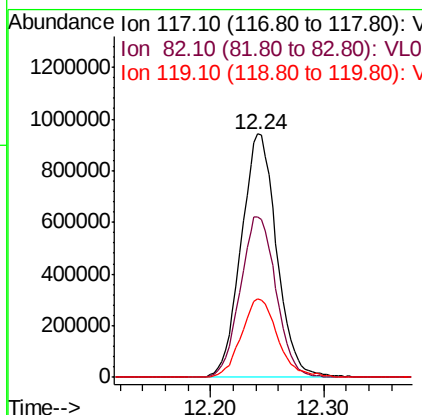
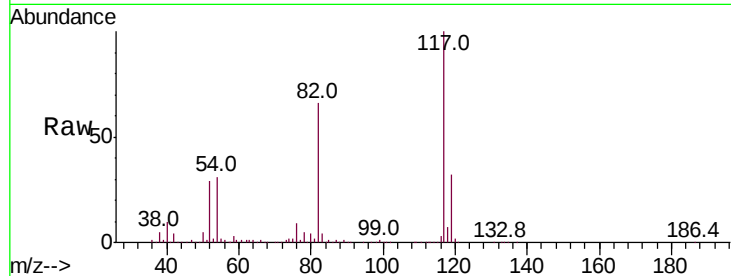
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:117 Resp: 2052935
Ion Ratio Lower Upper
117 100
82 66.8 53.4 80.2
119 33.3 27.3 40.9

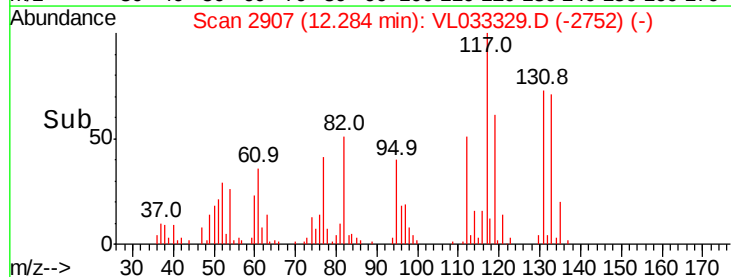
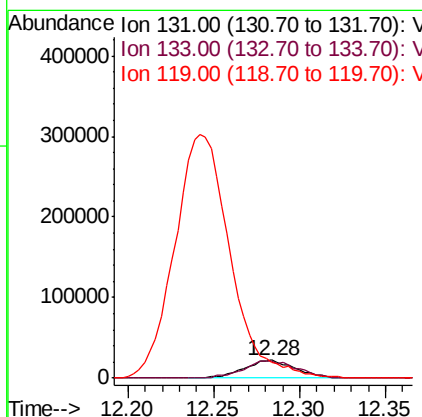
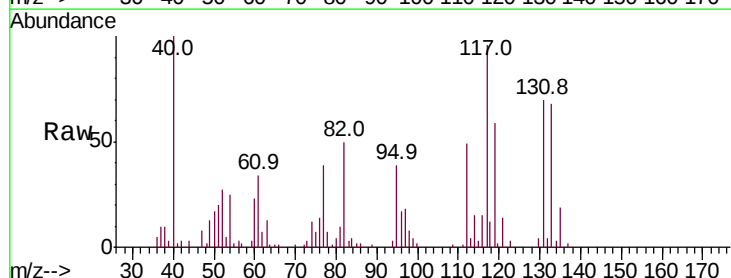
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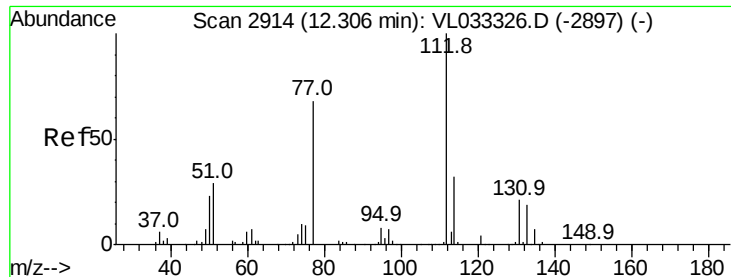
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#56
1,1,1,2-Tetrachloroethane
Concen: 0.500 ppbv
RT: 12.28 min Scan# 2907
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion:131 Resp: 46025
Ion Ratio Lower Upper
131 100
133 101.3 76.7 115.1
119 1485.1 40.3 60.5#





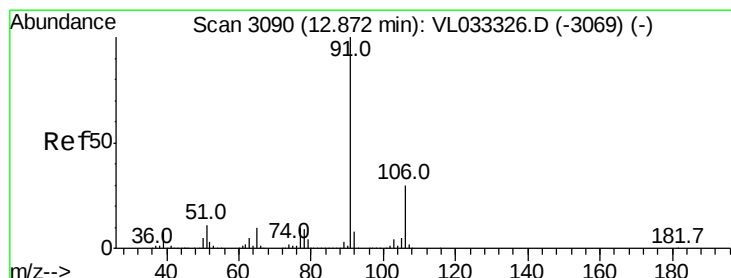
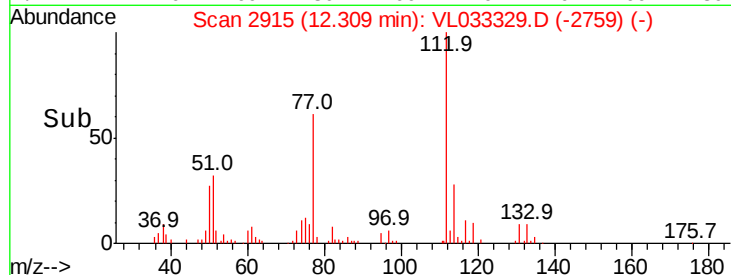
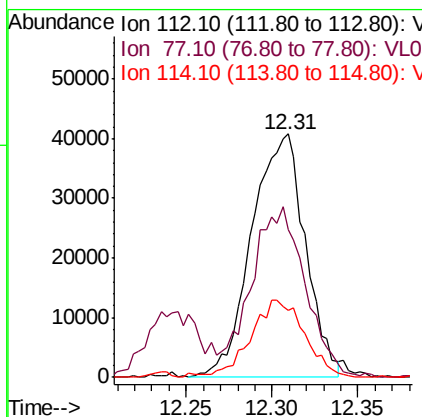
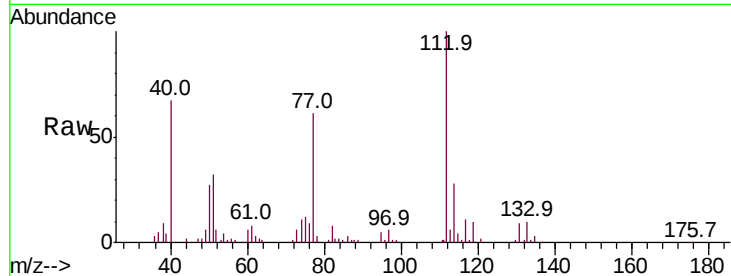
#57
Chlorobenzene
Concen: 0.540 ppbv
RT: 12.31 min Scan# 2915
Delta R.T. 0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
112	100	87995		
77	54.2		55.8	83.6#
114	25.8		28.6	35.0#

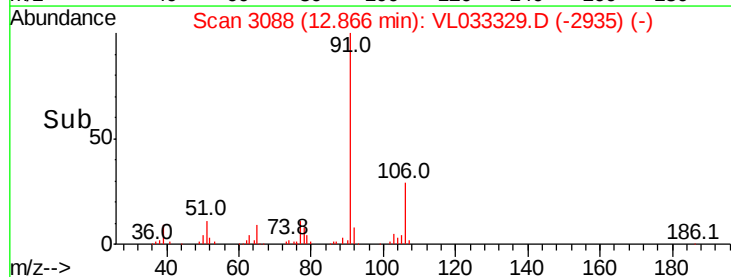
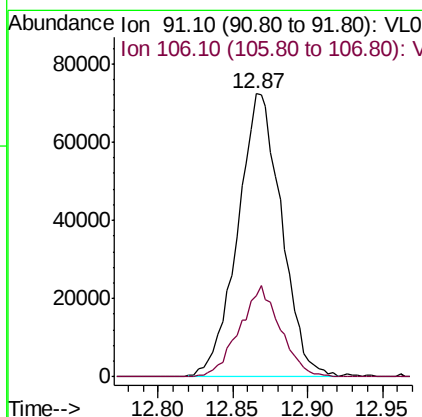
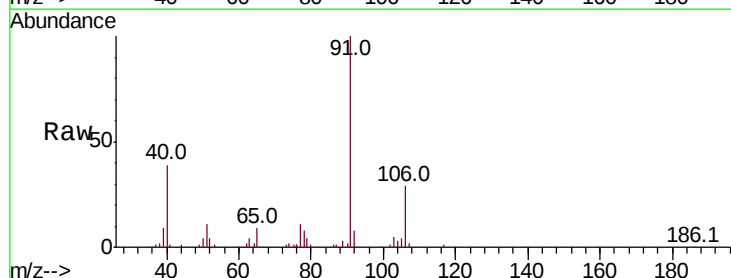
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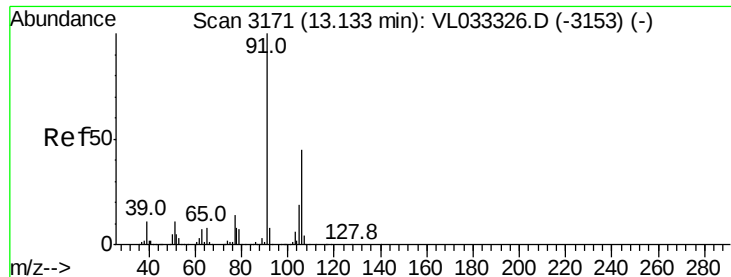
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#58
Ethyl Benzene
Concen: 0.503 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	146110		
106	28.6		24.2	36.2





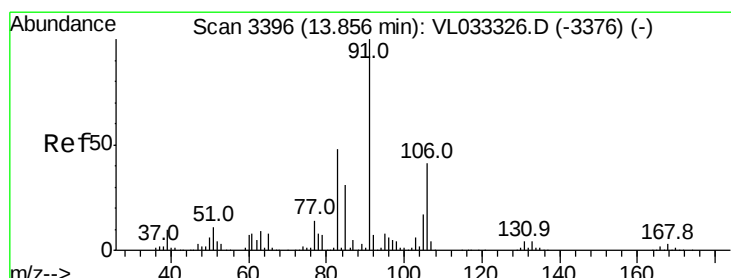
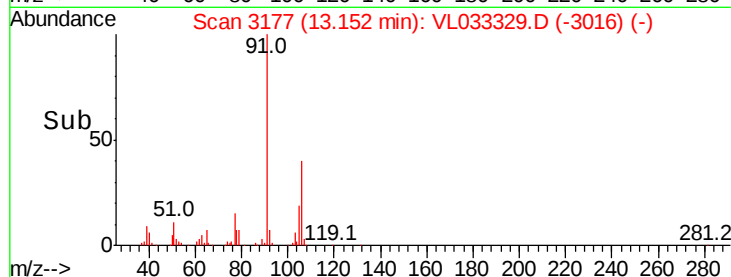
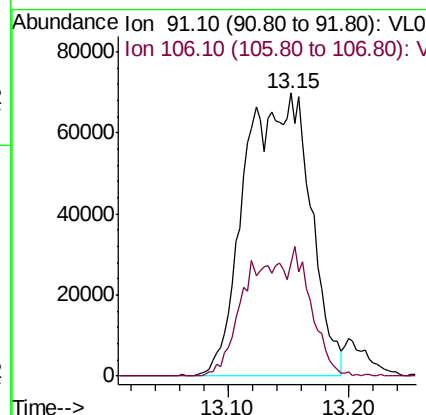
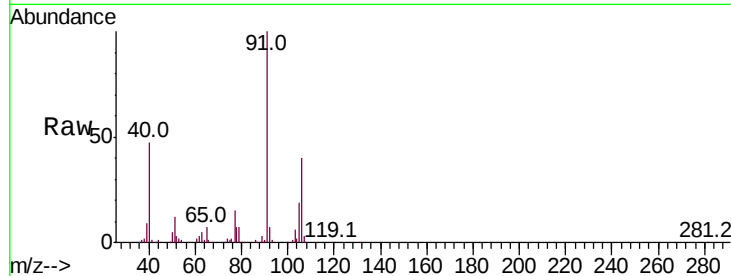
#59
m/p-Xylene
Concen: 1.058 ppbv m
RT: 13.15 min Scan# 3177
Delta R.T. 0.02 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
91	100	261682		
106	0.0	0.0	0.0	0.0

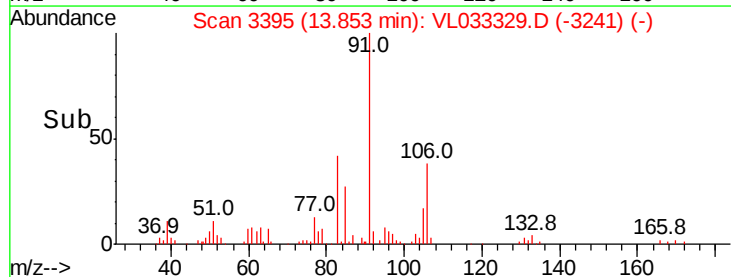
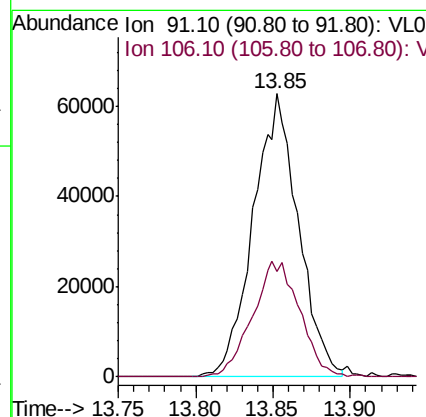
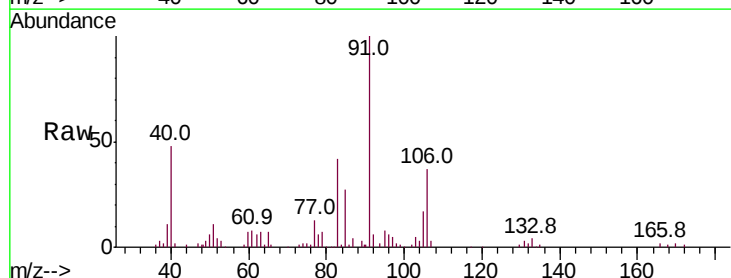
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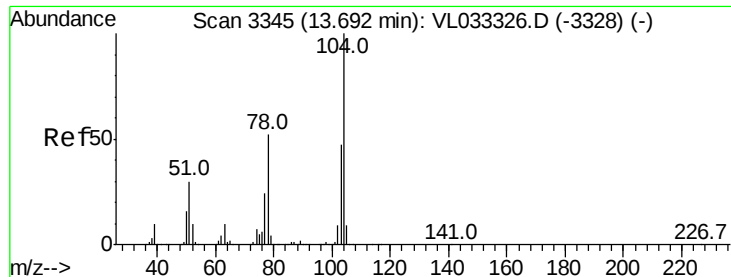
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#60
o-Xylene
Concen: 0.524 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	126991		
106	43.1	21.3	63.9	





#61

Stvrene

Concen: 0.488 ppbv

RT: 13.69 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

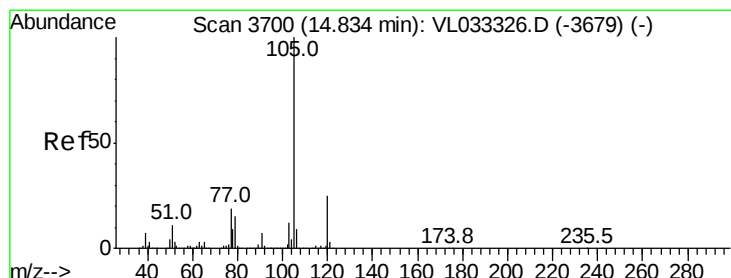
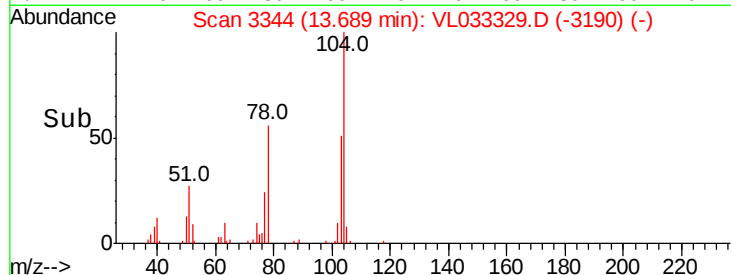
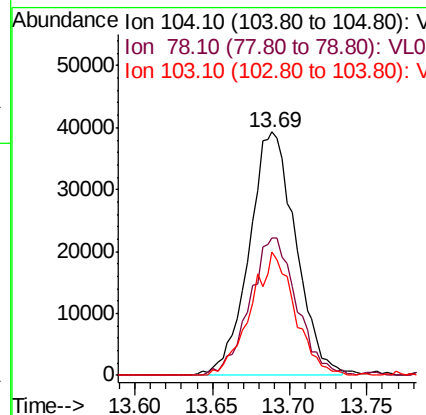
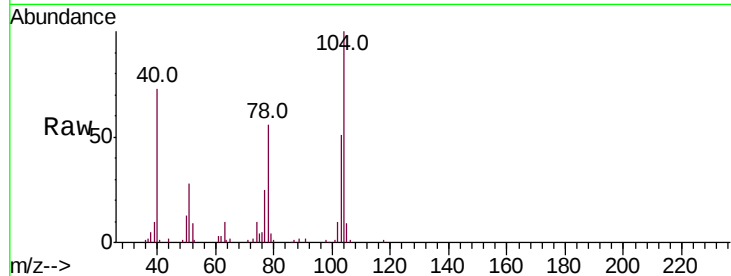
ClientSampleId :

VSTDIC0.5

Tot Ion:	104	Resp:	82610
Ion Ratio	Lower	Upper	
104	100		
78	57.3	42.7	64.1
103	47.9	38.0	57.0

Manual Integrations
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#62

Isopropylbenzene

Concen: 0.527 ppbv

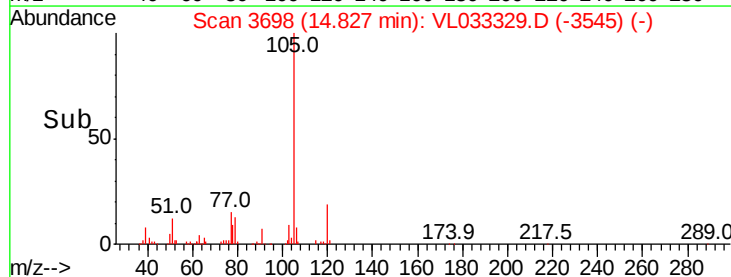
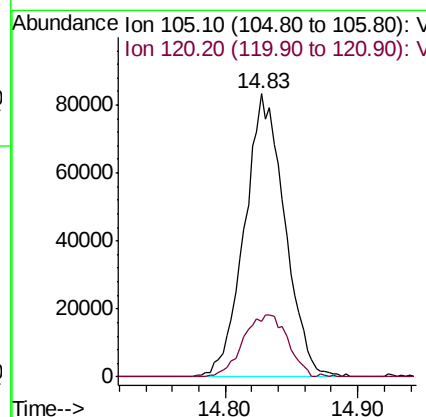
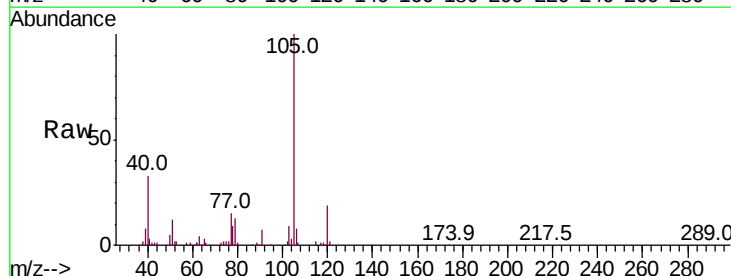
RT: 14.83 min Scan# 3698

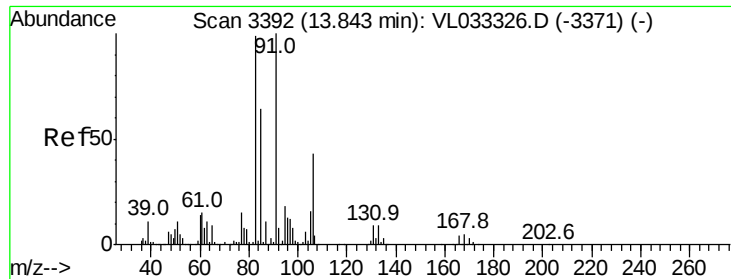
Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion:	105	Resp:	176356
Ion Ratio	Lower	Upper	
105	100		
120	24.4	19.9	29.9





#63

1,1,2,2-Tetrachloroethane

Concen: 0.517 ppbv

RT: 13.84 min Scan# 3390

Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

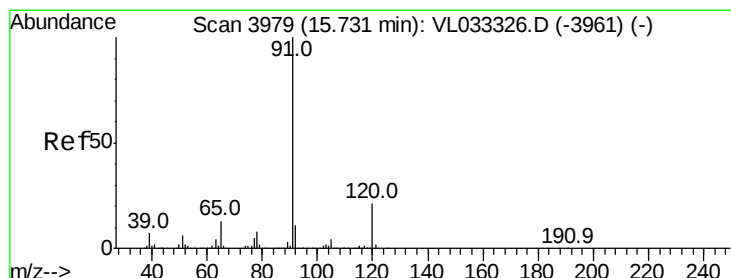
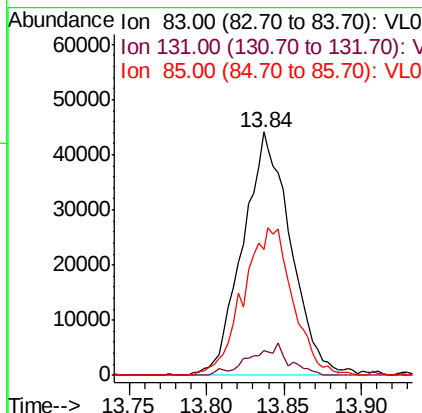
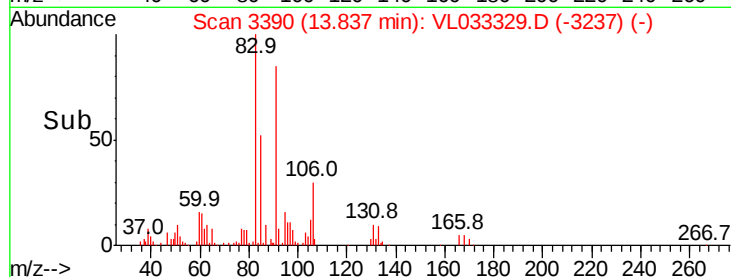
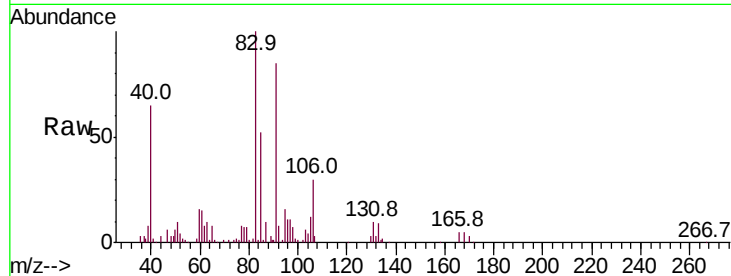
ClientSampleId :

VSTDIC0.5

Tot Ion	83	Resp	94758
Ion	Ratio	Lower	Upper
83	100		
131	10.5	4.7	14.0
85	63.1	32.5	97.4

Manual Integrations
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#64

n-propylbenzene

Concen: 0.523 ppbv m

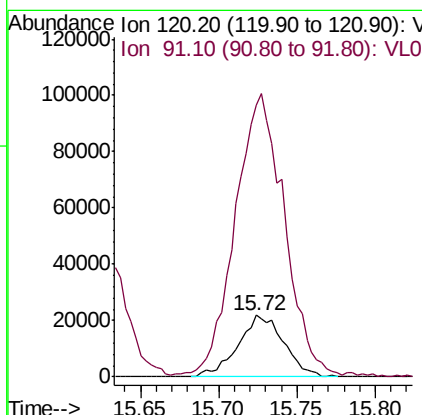
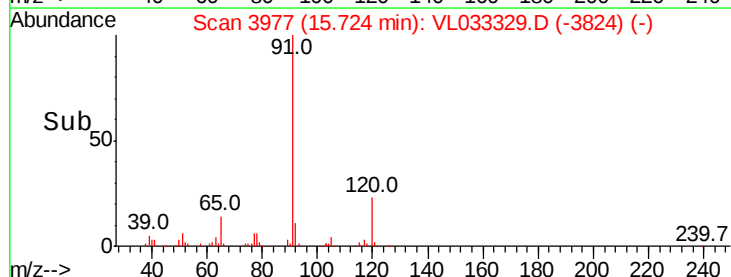
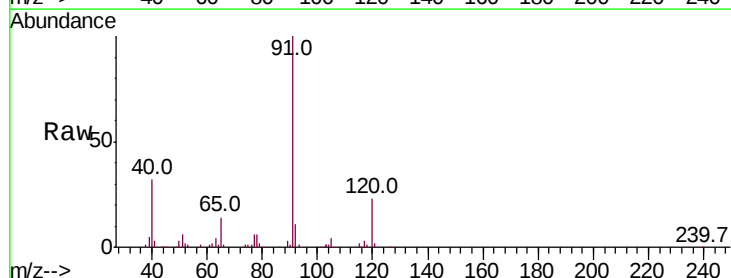
RT: 15.72 min Scan# 3977

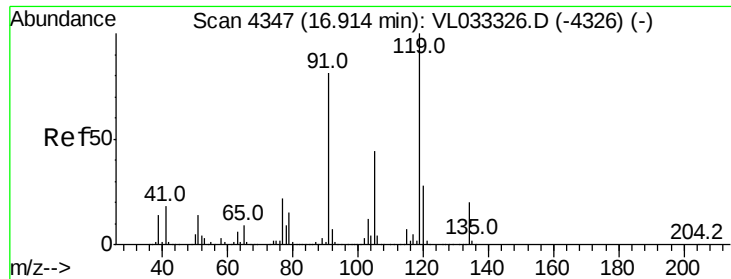
Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion	120	Resp	44239
Ion	Ratio	Lower	Upper
120	100		
91	500.6	389.8	584.6





#65

tert-Butylbenzene

Concen: 0.497 ppbv

RT: 16.91 min Scan# 4346

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

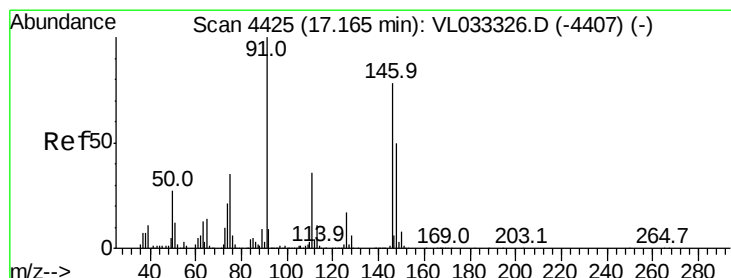
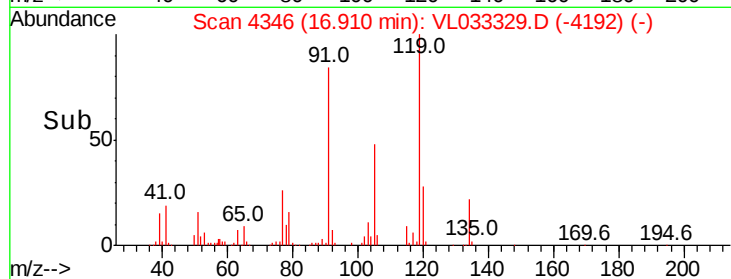
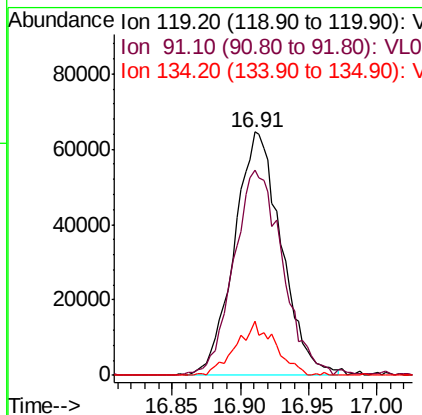
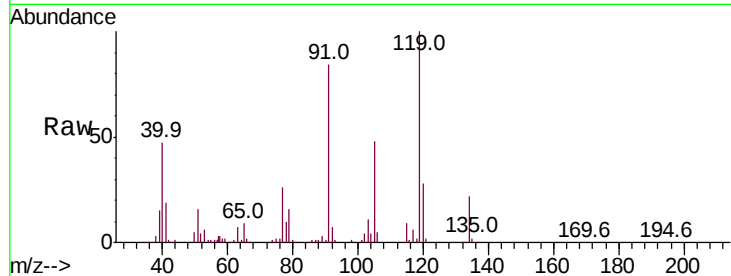
ClientSampleId :

VSTDIC0.5

Tot Ion:	119	Resp:	153273
Ion Ratio	Lower	Upper	
119	100		
91	88.7	67.2	100.8
134	18.6	15.4	23.2

Manual Integrations
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#66

Benzyl Chloride

Concen: 0.356 ppbv m

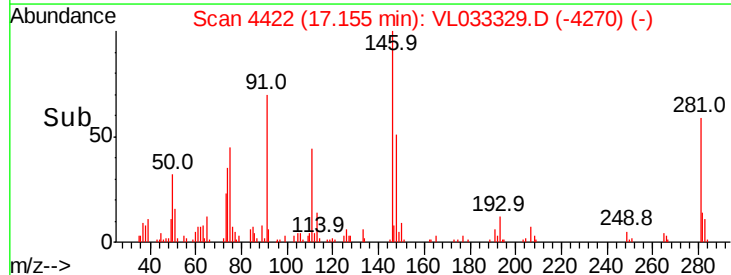
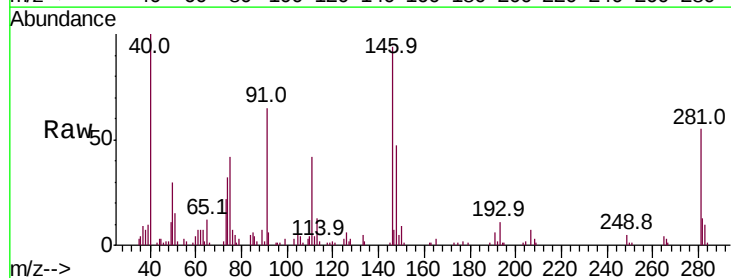
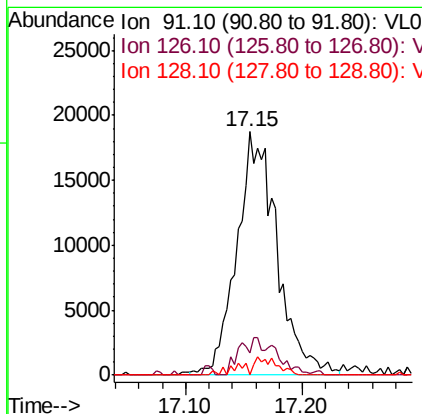
RT: 17.15 min Scan# 4422

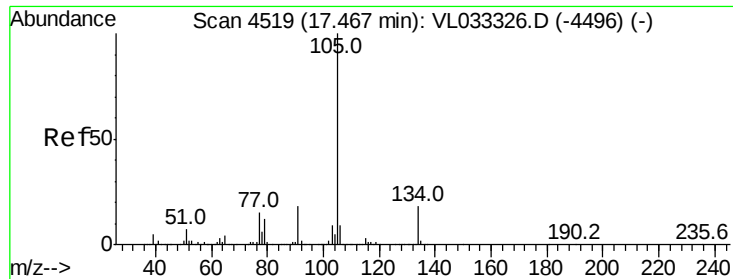
Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion:	91	Resp:	44818
Ion Ratio	Lower	Upper	
91	100		
126	15.2	13.2	19.8
128	6.1	4.2	6.4





#67

sec-Butylbenzene

Concen: 0.500 ppbv

RT: 17.46 min Scan# 4518

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleID :

VSTDIC0.5

Tot Ion:105 Resp: 220482

Ion Ratio Lower Upper

105 100

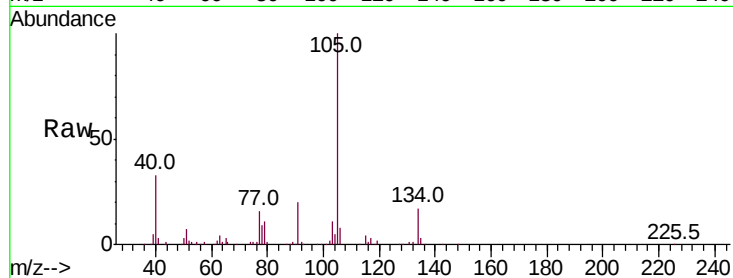
134 17.7 14.2 21.4

Manual Integrations

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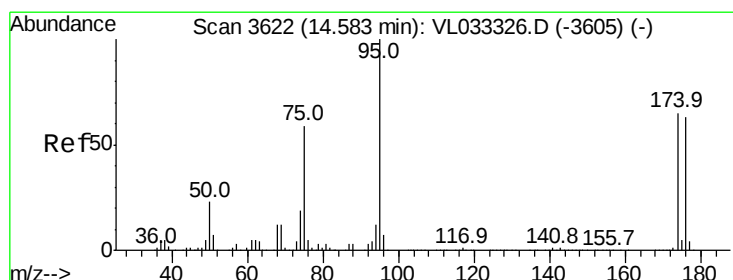
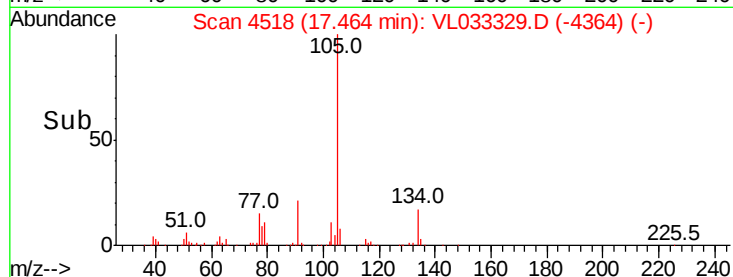
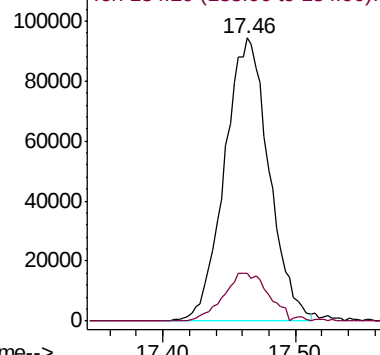
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.20 (133.90 to 134.90): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.180 ppbv

RT: 14.58 min Scan# 3620

Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

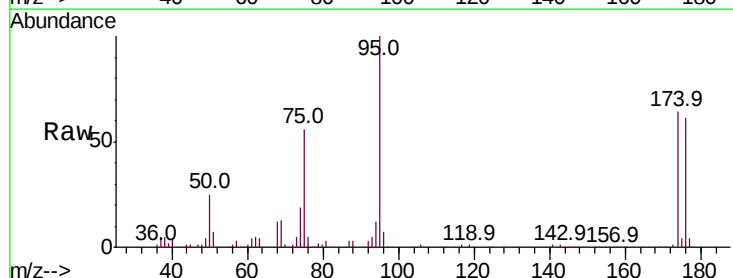
Tgt Ion: 95 Resp: 1588392

Ion Ratio Lower Upper

95 100

174 64.8 51.5 77.3

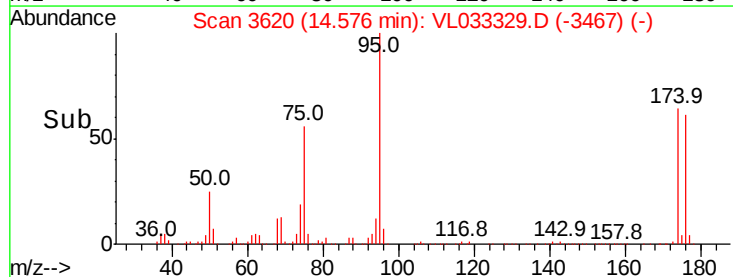
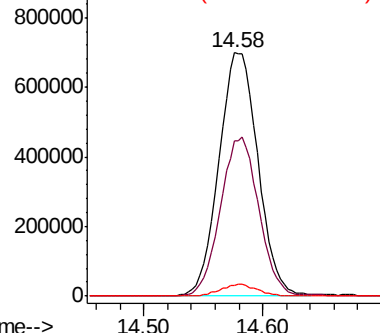
175 4.6 3.8 5.6

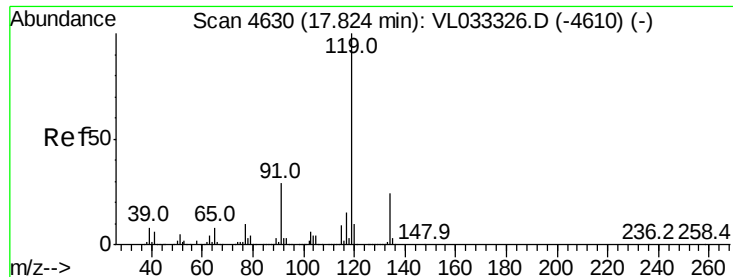


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





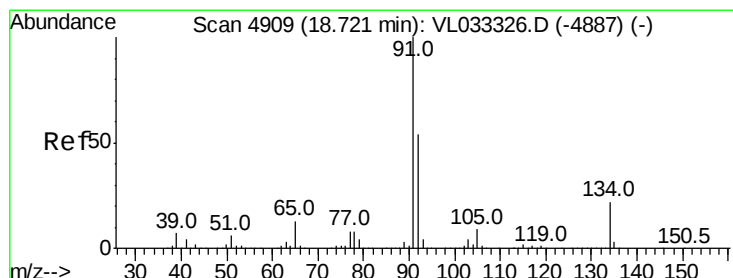
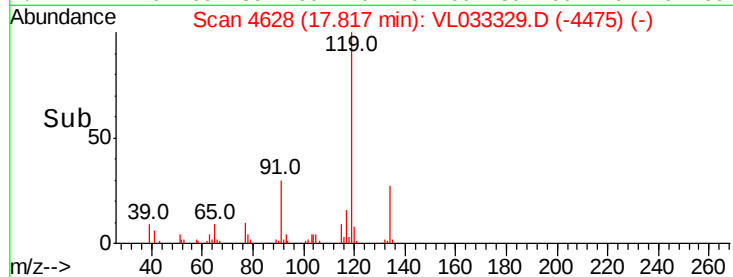
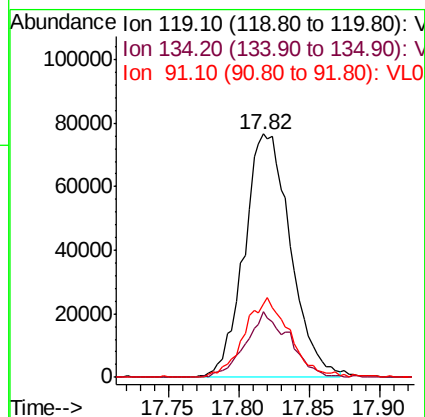
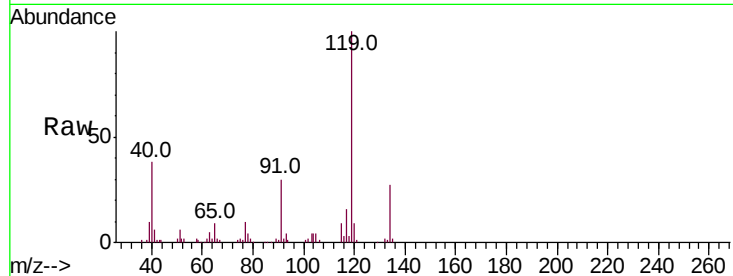
#69
p-Isopropyltoluene
Concen: 0.490 ppbv
RT: 17.82 min Scan# 4628
Delta R.T. -0.01 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion:	119	Resp:	176021
Ion Ratio	Lower	Upper	
119	100		
134	25.6	19.8	29.6
91	32.3	23.4	35.2

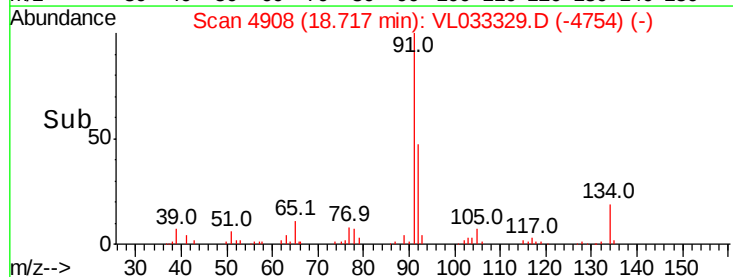
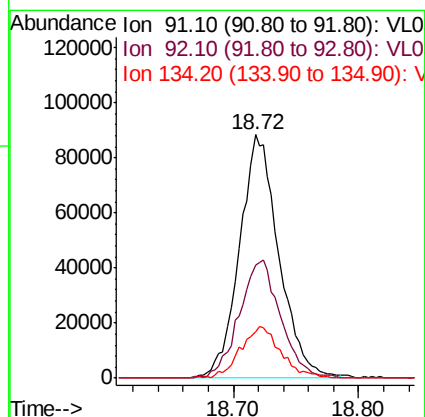
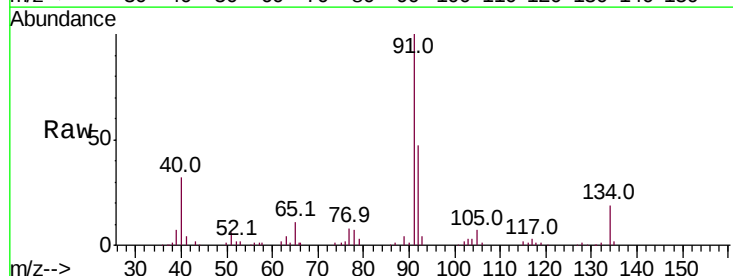
Manual Integrations
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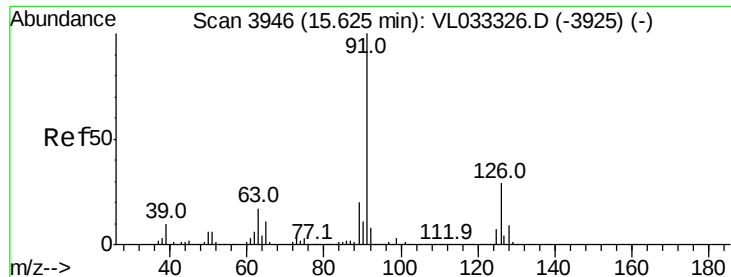
MMDadoda
3/19/2019 10:02:21 AM



#70
n-Butylbenzene
Concen: 0.501 ppbv
RT: 18.72 min Scan# 4908
Delta R.T. -0.00 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion:	91	Resp:	192072
Ion Ratio	Lower	Upper	
91	100		
92	50.9	42.8	64.2
134	21.7	17.4	26.0





#71

2-Chlorotoluene

Concen: 0.509 ppbv

RT: 15.62 min Scan# 3945

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.5

Tot Ion: 91 Resp: 135681

Ion Ratio Lower Upper

91 100

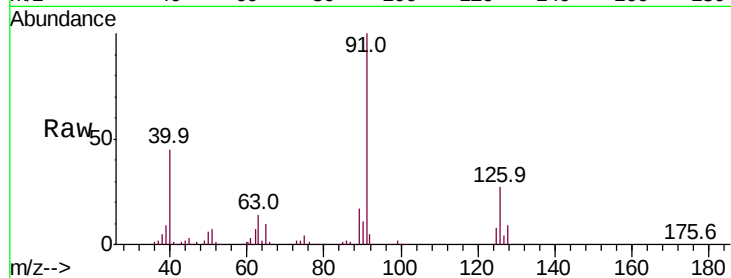
126 28.8 11.6 46.6

Manual Integrations

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MMDadoda

3/19/2019 10:02:21 AM



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 126.10 (125.80 to 126.80): V

100000

80000

60000

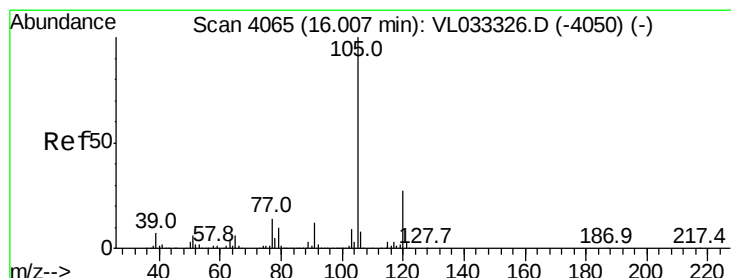
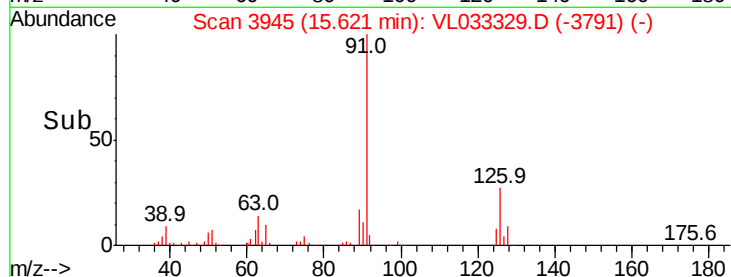
40000

20000

0

15.55 15.60 15.65 15.70

Time-->



#72

4-Ethyltoluene

Concen: 0.498 ppbv m

RT: 16.00 min Scan# 4064

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion:105 Resp: 137680

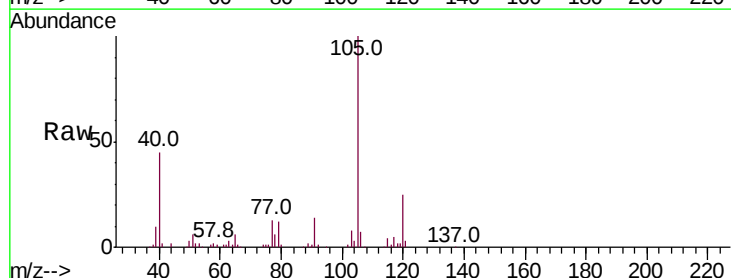
Ion Ratio Lower Upper

105 100

120 27.5 22.9 34.3

91 0.0 10.2 15.2#

77 15.2 11.1 16.7



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

100000

80000

60000

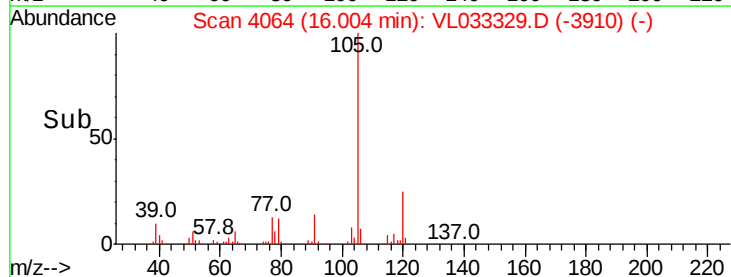
40000

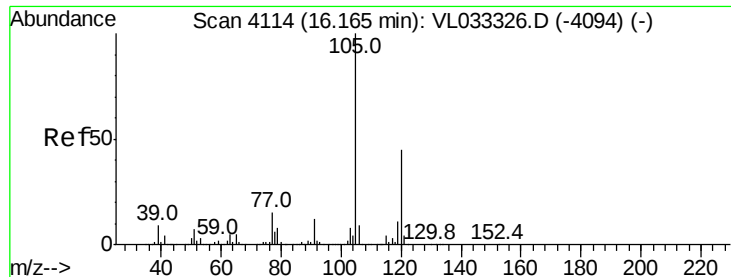
20000

0

15.90 16.00 16.10

Time-->





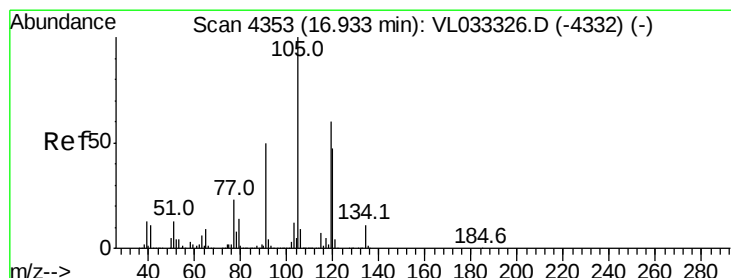
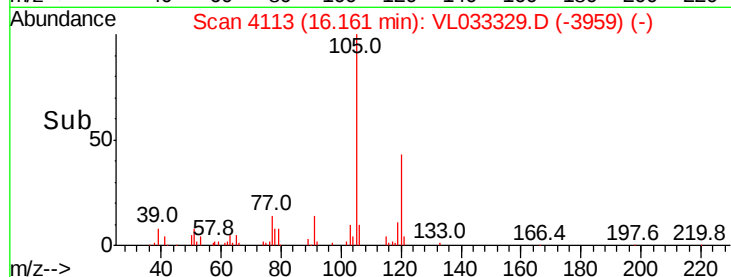
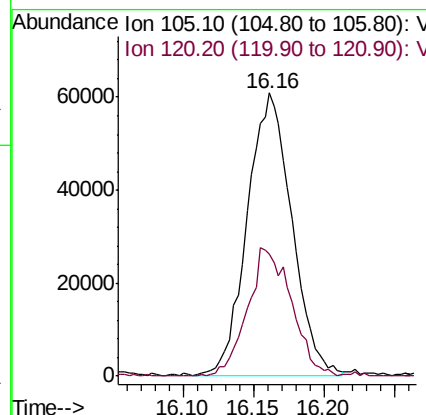
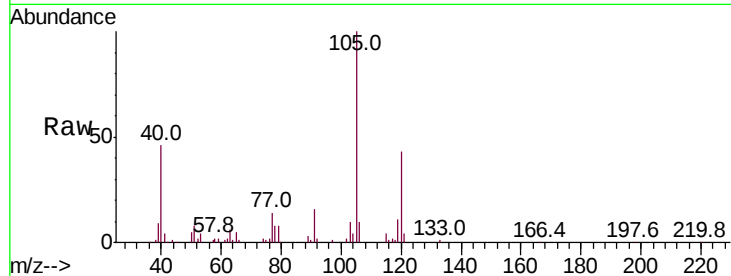
#73
 1,3,5-Trimethylbenzene
 Concen: 0.492 ppbv
 RT: 16.16 min Scan# 4113
 Delta R.T. -0.00 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp	Lower	Upper
105	100	134659		
120	43.0	36.2	54.4	

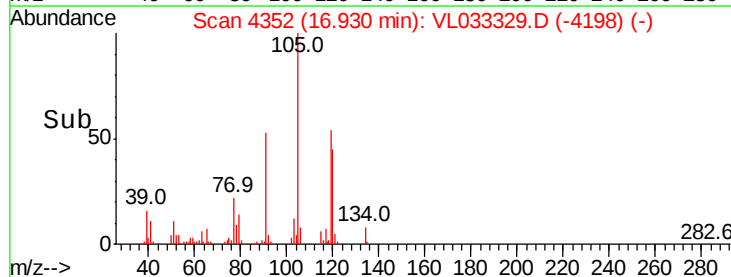
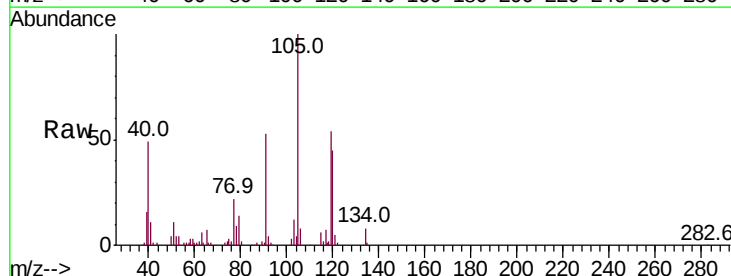
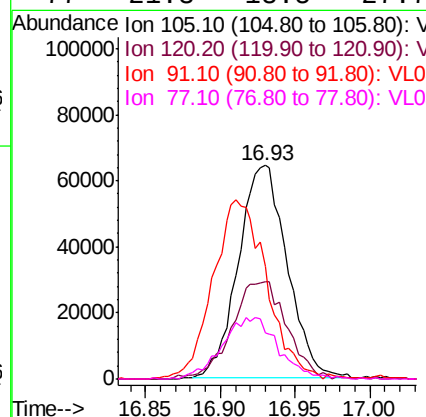
Manual Integrations
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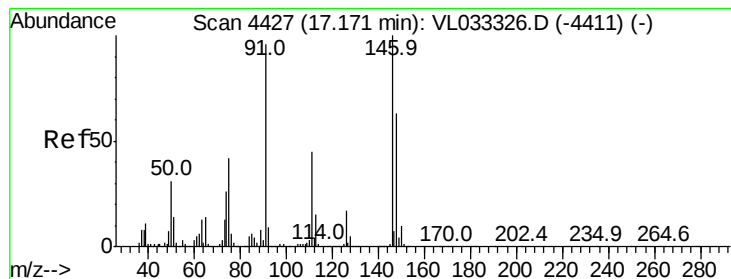
MMDadoda
 3/19/2019 10:02:21 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.509 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.00 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	146804		
120	44.8	37.4	56.2	
91	52.0	41.0	61.4	
77	21.3	18.5	27.7	





#75

1,3-Dichlorobenzene

Concen: 0.563 ppbv m

RT: 17.17 min Scan# 4426

Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

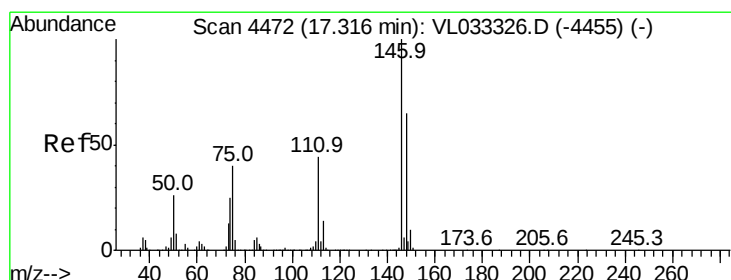
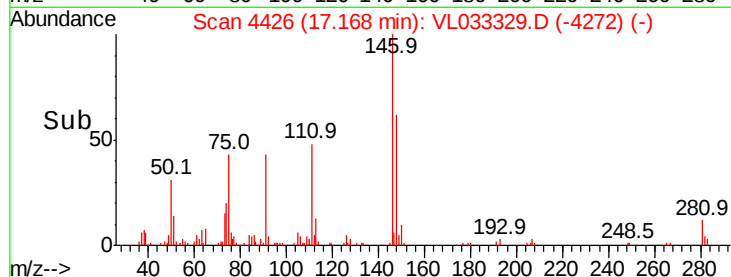
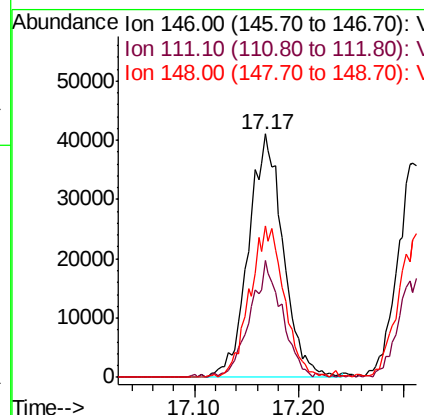
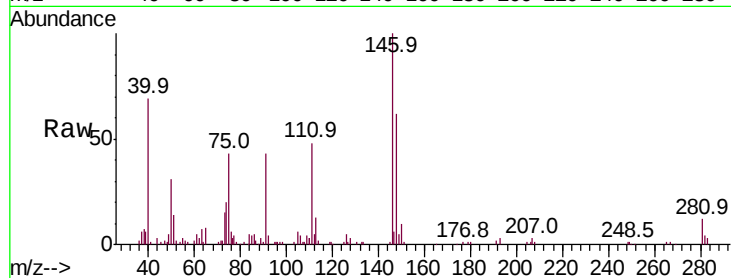
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	94372
Ion Ratio	Lower	Upper	
146	100		
111	44.6	22.8	68.3
148	61.6	31.9	95.7

Manual Integrations
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MMDadoda
3/19/2019 10:02:21 AM



#76

1,4-Dichlorobenzene

Concen: 0.510 ppbv

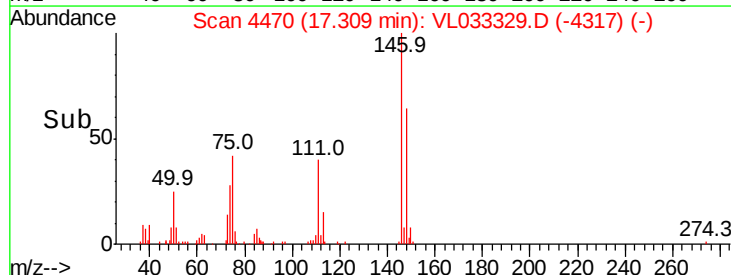
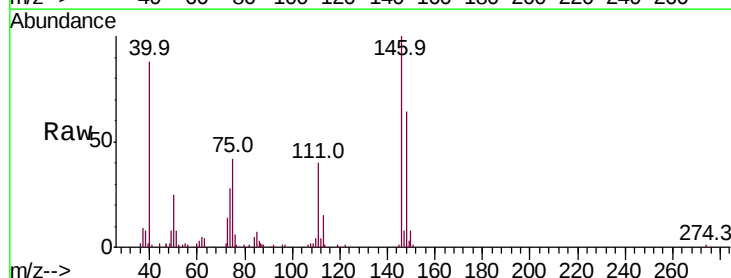
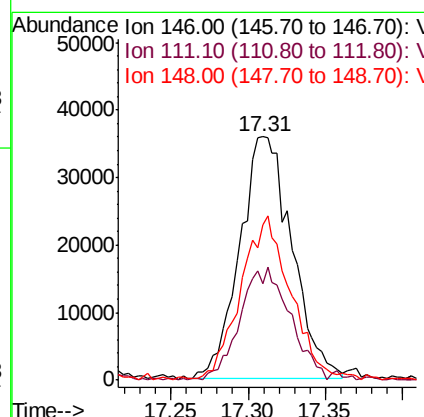
RT: 17.31 min Scan# 4470

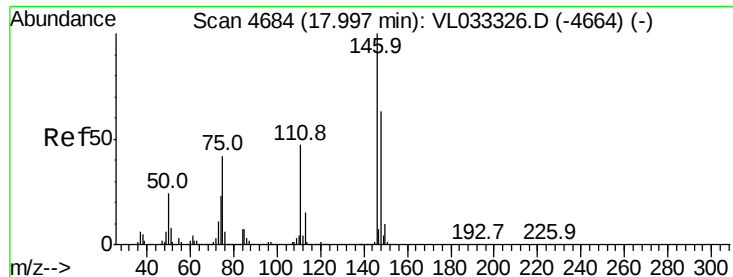
Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion:	146	Resp:	84137
Ion Ratio	Lower	Upper	
146	100		
111	45.9	21.9	65.7
148	66.0	32.1	96.5





#77

1,2-Dichlorobenzene

Concen: 0.523 ppbv

RT: 17.99 min Scan# 4682

Delta R.T. -0.01 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Instrument :

MSVOA_L

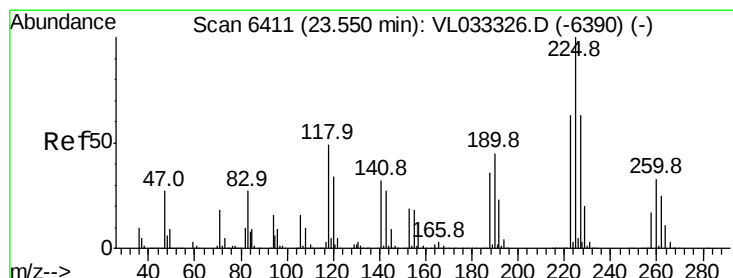
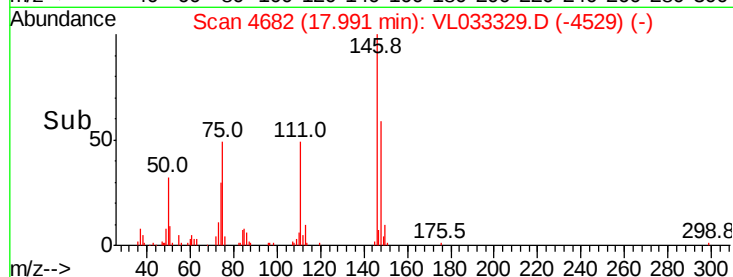
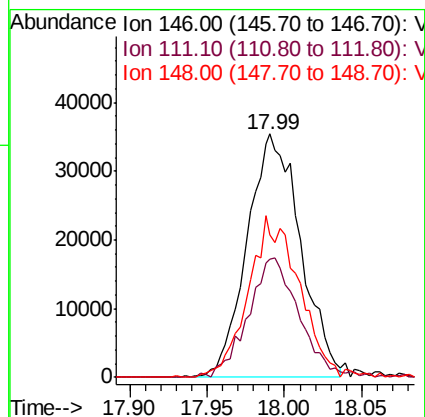
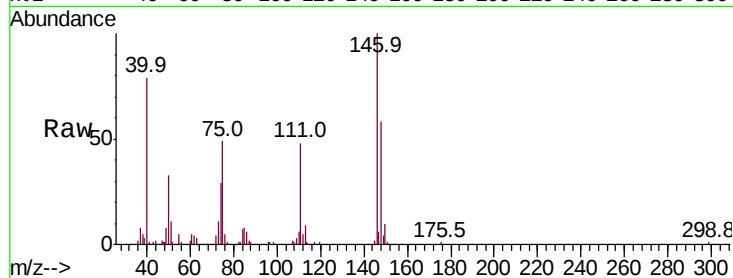
ClientSampleId :

VSTDIC0.5

Tot Ion:	146	Resp:	84810
Ion Ratio	Lower	Upper	
146	100		
111	47.4	23.5	70.6
148	63.9	31.9	95.9

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#78

Hexachloro-1,3-Butadiene

Concen: 0.579 ppbv m

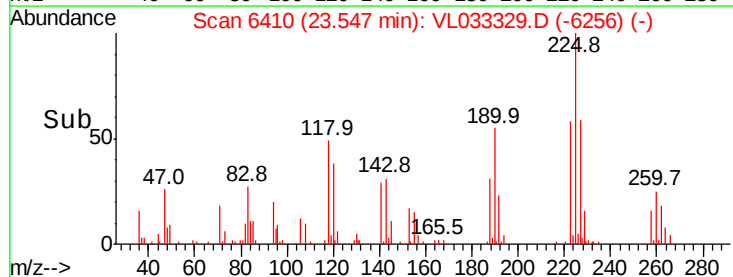
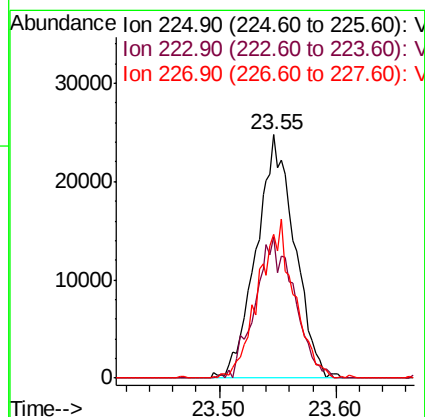
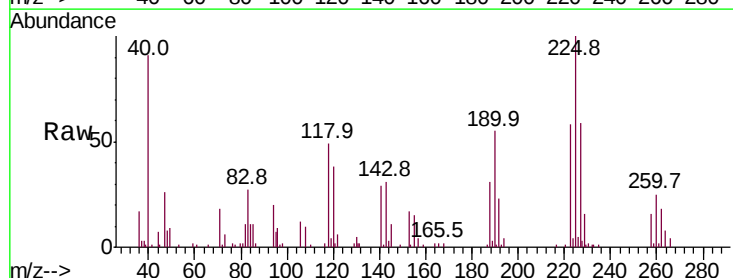
RT: 23.55 min Scan# 6410

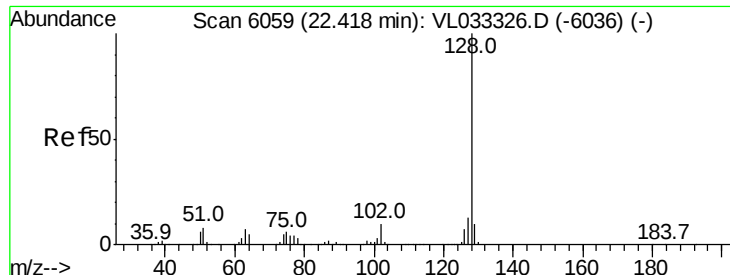
Delta R.T. -0.00 min

Lab File: VL033329.D

Acq: 15 Mar 2019 12:21

Tgt Ion:	225	Resp:	56579
Ion Ratio	Lower	Upper	
225	100		
223	59.4	50.4	75.6
227	0.0	50.5	75.7#





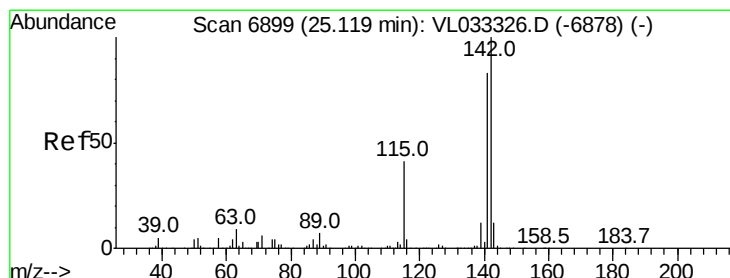
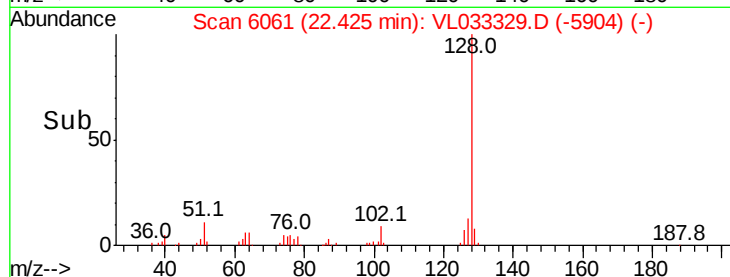
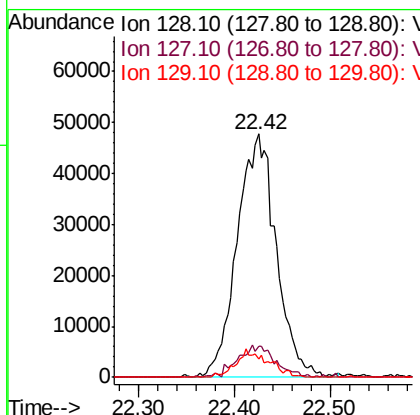
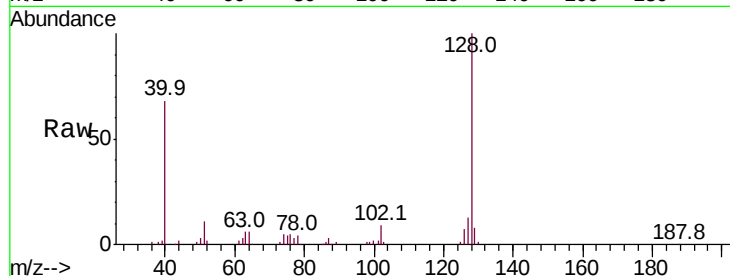
#79
Naphthalene
Concen: 0.481 ppbv m
RT: 22.42 min Scan# 6061
Delta R.T. 0.01 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.5

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.1	15.1
129	7.5	8.2	12.2

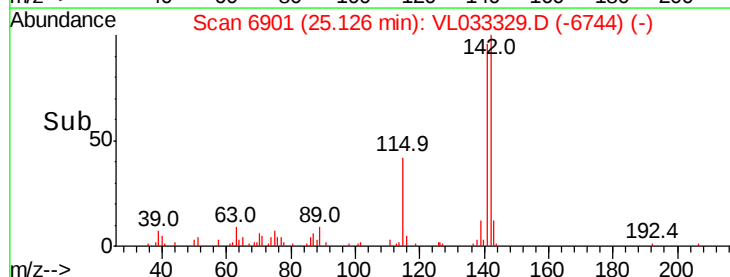
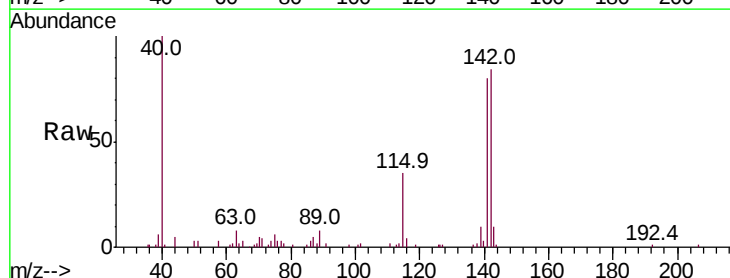
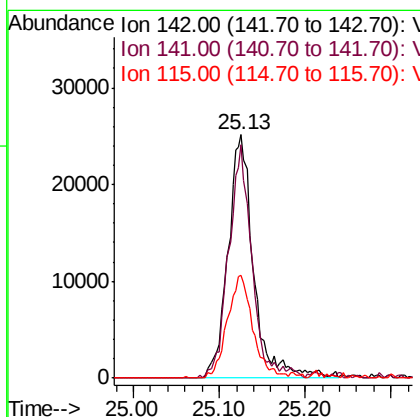
Manual Integrations
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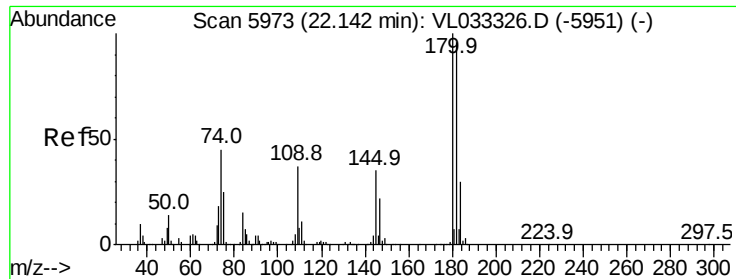
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#80
Naphthalene, 2-methyl-
Concen: 0.382 ppbv
RT: 25.13 min Scan# 6901
Delta R.T. 0.01 min
Lab File: VL033329.D
Acq: 15 Mar 2019 12:21

Tgt Ion	Ratio	Lower	Upper
142	100		
141	87.6	67.1	100.7
115	42.7	33.8	50.6





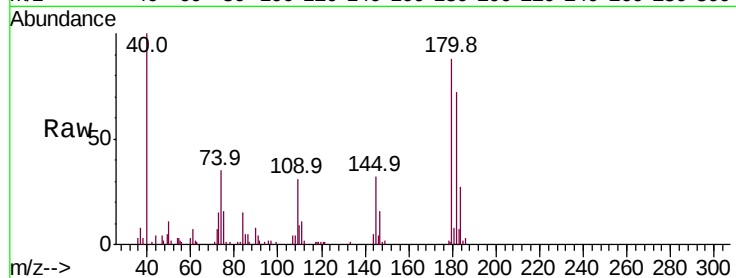
#81
 1,2,4-Trichlorobenzene
 Concen: 0.488 ppbv m
 RT: 22.14 min Scan# 5972
 Delta R.T. -0.00 min
 Lab File: VL033329.D
 Acq: 15 Mar 2019 12:21

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.5

Tot Ion	Ratio	Resp Lower	Upper
180	100		
182	99.6	76.1	114.1
184	0.0	24.6	37.0#

Manual Integrations
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Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V

